van note - harvey
Division of Pennoni

ENGINEERING REPORT

Princeton Nurseries
Block 102, Lots 5 & 6, and Block 106, Lot 1
Plainsboro Township, Middlesex County, New Jersey
Block 99, Lot 14.04
South Brunswick Township, Middlesex County, New Jersey

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WRNUL23001
June 14, 2024
September 27, 2024
October 30, 2024
January 16, 2025
April 18, 2025

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1.0 INTRODUCTION

Van-note Harvey, a division of Pennoni, has been retained to provide preliminary/final site design for a proposed mixed-use development primarily in the Township of Plainsboro within certain improvements in the Township of South Brunswick, Middlesex County, New Jersey. The improvements include retail buildings, hotel, single family homes, townhomes, residential flats, age-restricted apartments, offices, and two clubhouses. The project includes creation of a new roadway network with full public utilities, at-grade and multi-level parking, pedestrian connectivity, recreational facilities, stormwater management system, sanitary sewer pump station, and landscaping and lighting.

The site is the location of the former Princeton Nurseries which includes various vegetative covers, a gravel road (known and Nursery Drive) extending from College Road West into south Brunswick, and stormwater conveyance through the site from road improvements to College Road West and Seminary Drive. This conveyance discharges to a surface detention basin located in South Brunswick just north of the municipal boundary with an existing outfall to Heathcote Brook Tributary (aka Harry's Brook).

The site is bounded to the north by the South Brunswick municipal boundary with dense tree cover; to the east by wooded areas and Harry's Brook stream; to the south by Seminary Drive and College Road West; and to the west by the Barclay Square residential development. The existing site is accessed from College Road and Seminary Drive, and a future proposed access by way of a planned extension of Nursery Drive through South Brunswick, connecting to State Route 1.

2.0 PROJECT DESCRIPTION

Existing Conditions

The project is located with southerly frontage to College Road West and Seminary Drive within the Township of Plainsboro and the Township of South Brunswick. The property can be found on the United States Geological Survey (USGS) 7.5- minute topographic quadrangle for Highstown, New Jersey. A copy of the USGS map is provided as Figure 1. The property is located on Block 102, Lots 5 & 6 and Block 106, Lot 1, Township of Plainsboro and Block 99, Lot 14.04, Township of South Brunswick as shown on the Township of Plainsboro and Township of South Brunswick Tax Maps (Figure 2).

The existing watershed area for this analysis is divided into three (3) sub areas (See sheet CS9001, Appendix H). For this report, the pre-developed calculations were analyzed to three (3) "points of interest" (POI-1, POI-2, and POI-3). Pre-developed runoff hydrographs are located within Appendix A.

Existing Drainage Area #1 (EDA-1) consists of runoff from the grass meadow and wooded areas located on the westerly side of the existing gravel roadway. The runoff from EDA-1 flows in a northwesterly direction toward an existing outfall pipe located at the northwest corner of the site adjacent to the existing sanitary pump station. The Tc flow path is shown from the existing gravel road to the outfall pipe based on the topography which indicates an existing concentrated surface flow along the selected path. The existing stormwater outfall is the analysis point of interest (POI-1) for EDA-1. This conveyance routes stormwater to a basin within the adjacent Barclay Square development.

Existing Drainage Area #2 (EDA-2) consists of a combination of areas consisting of the grass and wooded areas located on the easterly side of the existing gravel roadway, and the area of the College Road West intersection improvements to create the proposed Nursey Drive stub road into the site. The paved intersection and stub road runoff is collected by existing inlets and is routed through storm pipe to the existing stormwater basin located north of the site in South Brunswick. This basin outfalls to Harry's Brook. The overland Tc flow path is shown based on the existing topography as this Tc is longer than the piped conveyance from the intersection to POI-2.

Existing Drainage Area #3 (EDA-3) consists of runoff from the onsite grass-covered berm along the westerly property boundary with the Barclay Square development. The runoff from EDA-3 flows in an easterly direction for the length of the berm to the Barclay Square community (POI-3).

Proposed Conditions

The proposed site development contains a total of 59 basins, (17 bioretention basins, 2 infiltration basins, and 40 subsurface basins (59 total basins) as shown on sheet CS9002, Appendix H "Post Developed Drainage Area Plan".

Proposed Drainage Area #1: The basins located within PDA-1 on the eastern side of the development all ultimately discharge to the existing outfall pipe (POI-1). This drainage area includes the hotel and restaurant lot, the western portion of the building A retail / residential building improvements, the western portion of the future phase lot, and all of the NVR residential development.

Proposed Drainage Area #2: The basin drainage areas within PDA-2 all discharge to Harry's Creek, either through the basin #6 outfall located in South Brunswick, or the basin #30 outfall located upstream of the basin #6 outfall. This drainage area includes the easterly portions of the hotel, Building A, and future phase lot east of Nursery Drive, along with all of nursery drive and all development east of Nursery Drive. The peak reduction analysis is performed at the downstream basin #6 outfall (POI-2). Basin #6 is proposed to be expanded from its existing constructed condition.

Proposed Drainage Area #3: consists of runoff from the onsite grass-covered berm along the westerly property boundary with the Barclay Square development. The runoff from EDA-3 flows in an easterly direction for the length of the berm to the Barclay Square community (POI-3) and remains unchanged from the existing condition.

Drainage Area – South Brunswick –Existing Basin 6 and Basin 25: consists of the area of the College Road West intersection improvements to create the proposed Nursey Drive stub road into the site. The road runoff is collected by existing inlets and is routed through storm pipe to the existing stormwater basin 6 located north of the site in South Brunswick. Basin 6 discharges to Harry's Brook. Basin 25 collects runoff from Future Building E2, E2 parking area, a section of Road F and Nursery Road. Basin 25 discharges to existing Basin 6.

The Post-Developed Hydrographs are included as Appendix B.

Table 1 below summarizes the pre- vs. post-developed impervious areas onsite.

Table 1 - Project Area Comparison

	Impervious Area* (acre)	Motor Vehicle Surface Area** (acre)	Pervious Area (acre)
Pre-Developed	0.09	1.79	89.55
Post-Developed	26.55	30.51	34.37
Increase	**+26.46**	**+28.72**	**-55.18**

***Roof and sidewalk areas**
****Includes porous asphalt areas**

3.0 SOIL DATA

The site soils consist of Fallsington bedrock substratum variant loam (FavAr),B/D soil, 0 to 5 percent slopes, Hammonton loamy sand (HbmB), B soil, 0 to 5 percent slopes, Nixon loam (NknA), B soil, 0 to 2 percent slopes, Nixon loam (NknB), B soil, 2 to 5 percent slopes, Nixon moderately well drained variant loam, (NkrA), C soil, 0 to 2 percent slopes, Nixon moderately well drained variant loam, (NkrB), C soil, 2 to 5 percent slopes, Woodstown loam, (WogA), C soil, 0 to 2 percent slopes, as depicted on the United States Department of Agriculture, (USDA) Web Soil Survey of Middlesex County, New Jersey (Figure 3).

4.0 WATERSHED DATA

Based on a review of FEMA Flood Insurance Rate Maps, and NJ GeoWeb, we have made the following determinations near the project limits:

FEMA FIRM panel number 34023C0226F (effective 7/06/2010) indicates the immediate project area is not located within a FEMA flood hazard zone (Zone X). There is a flood hazard area associated with Harry's Creek for which the flood elevation has been determined, and flood hazard limit shown on the plans outside the development area.

5.0 DESIGN CRITERIA

GREEN INFRASTRUCTURE:

To satisfy the groundwater recharge, runoff quality and runoff quantity the project design must utilize green infrastructure BMP's (GI BMP) as identified in Table 5-1 at N.J.A.C. 7:8-5.2 (f) or an alternative stormwater management measure approved in accordance with N.J.A.C. 7:8-5.2(g). The following green infrastructure BMPs from Table 5-1 at N.J.A.C. 7:8-5.2 (b) have been incorporated into the project design:

1. Small Scale Bioretention Basin – Nineteen (19) small scale bioretention basins are provided as part of the project design. As required by N.J.A.C. 7:8-5.3 (b), small-scale bioretention basins are subject to a maximum contributory drainage area of 2.5 acres.

The proposed small scale surface infiltration basins have a contributory drainage area of 2.50 acres or less. The proposed green infrastructure BMP complies with N.J.A.C. 7:8-5.3 (b).

2. Pervious paving- Porous asphalt areas are provided as part of the project design. As required by N.J.A.C. 7:8-5.3 (b), area of additional inflow cannot exceed three times the area occupied by the pervious paving systems.

The area of additional inflow does not exceed three times the area occupied by the proposed porous asphalt areas. The proposed green infrastructure BMPs comply with N.J.A.C. 7:8-5.5 (b).

3. Green Infrastructure Manufactured Treatment Device (GI MTD) – GI MTD's are provided as part of the project design. The total suspended solids (TSS) removal rate for GI MTDs is 80% and must receive New Jersey Center for Advanced Technology (NJCAT) verification and NJDEP certification for each type of device.

The proposed GI MTD's provide 80% TSS removal rate and have received NJCAT verification and certification from NJDEP. The proposed green infrastructure BMPs comply with N.J.A.C. 7:8-5.3.

NONSTRUCTURAL MEASURES EMPLOYED IN THE ENGINEERING OF THIS SITE INCLUDE

The below discussion of nonstructural BMP strategies is provided as the primary basis for compliance with the BMP rules, as the NJDEP "Nonstructural Strategies Points System" (NSPS) does not provide an accurate valuation of the BMP design and is no longer required by the NJDEP.

To the maximum extent practicable, nonstructural stormwater management strategies must be incorporated into the design in accordance with N.J.A.C. 7:45-8.4.

1. Protect areas that provide water quality benefits or areas particularly susceptible to erosion of sediment loss.
   - **The DRCC conservation easement associated with Harry's Brook (17.7 Ac.) will not be disturbed with the exception of the recommended reconstruction of the Basin #6 outfall resulting in a 0.04 Ac. disturbance.**
   - **Freshwater wetlands on site totally 9.16 Ac. are not proposed to be disturbed.**
   - **Wetlands buffers on site totaling 7.5 Ac. will not be disturbed with the exception of 0.20 Ac. for grading of a surface stormwater basin up to ½ the width of the buffer. A Transition Area Waiver will be used to provide an equivalent or greater area for conservation adjacent to the same wetlands buffer on site.**
   - **Construction of the project will comply with the Soil Erosion and Sediment Control Act, NJSA 4:24-39 et seq. and implementing rules.**
2. Minimize impervious surfaces and break up or disconnect the flow of runoff over impervious surfaces.
   - **Porous asphalt has been utilized at all residential driveways and many other site locations in lieu of standard impervious pavement (total 9.2 Ac.). Porous asphalt will reduce stormwater runoff, provide water quality treatment and groundwater infiltration.**
   - **Minimum cartway and parking space widths are utilized in the design.**
3. Maximize the protection of natural drainage features and vegetation.
   - **In addition to the response to #1 above, there will not be any disturbance directly to Harry's Brook.**
4. Minimize the decrease in the pre-construction time of concentration.
   - **Runoff from the site will be routed through small scale bioretention and infiltration basins to slow the flow of surface runoff, minimizing the decrease in the time of concentration to the point of interest within the watersheds.**
5. Minimize land disturbance including clearing and grading.
   - **Although the site design requires significant clearing (as it was previously a tree nursery), and regrading of the project area due to the existing topography, land disturbance has been minimized to the extent practical. Perimeter trees and two existing large arborvitae windrows are designated to be maintained with the proposed development.**
6. Minimize soil compaction.
   - **Light construction equipment will be utilized to minimize soil compaction within proposed basin areas.**
   - **Surface basin bottoms will have sedimentation removed and will be sacrificed as the contributing site areas are being stabilized with vegetation.**
7. Provide low maintenance landscaping that encourages retention and planting of native vegetation and minimizes the use of lawns, fertilizers, and pesticides.
   - **The landscaping has been designed to encourage retention of stormwater and minimize**

the need for pesticides and fertilizers.

8. Provide vegetated open-channel conveyance systems discharge into and through stable vegetated areas.
   - **Side yards between single family and townhome buildings are designed with grass-stabilized swales prior to the discharge the inlet structures.**

   Provide preventative source controls to prevent or minimize the use or exposure of pollutants from development sites in order to prevent or minimize the release of those pollutants into stormwater runoff.

   Site design features that help to prevent accumulation of trash and debris in drainage systems;
   - **All proposed inlets will comply with the NJPDES storm drain inlet criteria.**
   - **All inlets will be fitted with silt sacks for the duration of construction.**

   Site design features that help to prevent discharge of trash and debris in drainage systems;
   - **All proposed basin outlet structures will contain trash racks in accordance with NJAC 7:8-6.2.**
   - **A Stormwater Maintenance Manual has been prepared in accordance with NJAC 7:8-5.8 to address the removal of accumulated trash and debris.**

   Site design features that help to prevent and/or contain spills or other harmful accumulations of pollutants at industrial or commercial developments;
   - **Industrial development is not proposed as part of this project. The commercial portions of the development will provide good housekeeping measures including designated dumpster, recycling, and trash compactor enclosures, regular trash and recycling collection, trash receptacles for patron use and regular maintenance of parking and loading areas.**

   When establishing vegetation after land disturbance, applying fertilizer in accordance with the requirements established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq., and implementing rules;
   - **Construction of the project will comply with the Soil Erosion and Sediment Control Act, NJSA 4:24-39 et seq. and implementing rules.**
   - **The HOA will be tasked with the management of the common open spaces through the preparation of HOA bylaws.**

GROUNDWATER RECHARGE:

Pursuant to the N.J.A.C. 7:8-5.4 (b) groundwater recharge requirements apply if there is either a 0.25 acre increase in impervious area or 1 acre of disturbance. The project disturbs more than 1 acre and increases motor vehicle surfaces by more than 0.25 acres. Therefore, one of the following requirements shall be met to satisfy the standards for groundwater recharge:

(1) 100 percent of the site's average annual pre-developed groundwater recharge volume shall be maintained after development; (2) 100 percent of the difference between the site's pre- and post-developed 2-year runoff volumes shall be infiltrated.

The stormwater management design consists of twenty-two small scale BMP's. The NJ Groundwater Recharge Spreadsheet provides a procedure to solve for smaller BMP's. The following parameters have been entered into the New Jersey Groundwater Recharge Spreadsheet (NJGRS) for each the twenty-two small scale BMP's.

- BMP Area (ABMP) Basin bottom (sq.ft.)
- BMP effective depth (dBMP) (in.)
- Upper Level of BMP (dBMPu) (in.) (lowest orifice elevation – bottom basin el.) (negative value for vegetated, surface recharge BMP, ref. Figure 6-4, Chapter 6, NJ BMP Manual, Appendix G).
- Depth of lower surface of BMP (dEXC) = 0" for vegetated surfaces (ref. Figure 6-4, Chapter 6, NJ BMP Manual, Appendix G).
- Post-D deficit recharge (or desired recharge volume) (Vdef) (impervious area runoff volume – 2-year storm) (cu.ft)
- Post-D impervious area (or target impervious area) (Aimp) (impervious area) (sq.ft)

The spreadsheets were solved for the effective depth (dBMP) to provide the required post-developed recharge deficit (Vdef) within each BMP area. The spreadsheets are included within Appendix E.

RUNOFF QUALITY:

Pursuant to N.J.A.C. 7:8-5.2 (f), the green infrastructure BMP's can be utilized to satisfy the requirements of N.J.A.C. 7:8-5.5 for stormwater runoff quality. Stormwater Management measures shall be designed to reduce the post-construction load of total suspended solids (TSS) in stormwater runoff generated from the water quality design storm by 80 percent of the anticipated load from the developed site. The increase in motor vehicle surface must be treated for 80% TSS reductions.

The water quality standards will apply as the net increase of motor vehicle surface exceeds the limit for a maximum net increase of 0.25 acres for the site. The water quality (WQ) design storm is 1.25 inches of rainfall in 2-hours. In accordance with N.J.A.C. 7:8-5.5, Table 5-4, a one-minute water quality design storm rainfall distribution was utilized for the calculations. Bentley's Pondpack Connect Edition was used to perform the calculations. The design utilizes porous asphalt, bioretention basins and infiltration basins to meet the water quality requirements. As required by NJ BMP Manual, Chapter 9.6, the porous asphalt systems are designed to treat a maximum additional inflow area not to exceed three (3) times the area of the porous asphalt.

The water quality storm volume and volume infiltrated within the bioretention basins and infiltration basin is summarized in Table 2 below.

Table 2 – WQ Storm Volume and Volume Infiltrated

Infiltration Area	Motor Vehicle Impervious Runoff Volume (cf)	Volume Retained & Infiltrated (cf)
Bioretention Basin 1	1,490	1,490
Bioretention Basin 12	1,364	1,364
UGB 15	913	913
UGB 16	2,053	2,053
Bioretention Basin 25	4,655	4,655
Bioretention Basin 26	1,952	1,952
Bioretention Basin 28	1,444	1,444
Infiltration Basin 29	908	908**
Bioretention Basin 35	379	379
Bioretention Basin 36	496	496
Bioretention Basin 45	4,103	4,103
Bioretention Basin 51	602	602
Bioretention Basin 52	1,143	1,142
Bioretention Basin 53	343	343
Bioretention Basin 58	4,064	4,064
UGB 59	1,326	1,326
Infiltration Basin 30	1,756	1,753
UGB2	1,066	1,067
UGB4	1,254	1,254
UGB5	414	414
UGB6	605	605
UGB7	867	867
UGB9	801	801
UGB10	571	571
UGB11	565	565**
UGB13	342	343

Infiltration Area	Motor Vehicle Impervious Runoff Volume (cf)	Volume Retained & Infiltrated (cf)
UGB14	381	380
UGB17	648	648
UGB18	977	974**
UGB19	414	414**
UGB20	272	272
UGB21	601	600
UGB22	647	647
UGB31	943	943**
UGB32	2,669	2,669
UGB33	343	343
UGB34	380	380
UGB37	381	381
UGB41	190	190
UGB42	305	305
UGB43	0	0
UGB44	163	163
UGB46	534	533**
UGB47	1,015	1,015**
UGB48	225	224**
UGB49	340	340**
UGB50	760	760**
UGB54	380	380**
UGB55	1,026	1,026
UGB56	3,546	3,546
UGB57	1,672	1,672
UGB60	1,900	1,900
UGB61	1,982	1,365**

Infiltration Area	Motor Vehicle Impervious Runoff Volume (cf)	Volume Retained & Infiltrated (cf)
UGB62	4,842	4,842**
UGB63	1,258	1,258

** Additional treatment provided through porous asphalt

Green Infrastructure Manufactured Treatment Device

Per NJ BMP Manual, Chapter 9.8, pretreatment is a requirement for all small-scale subsurface infiltration basins. Green infrastructure manufactured treatment devices (GI MTD's) are proposed for pretreatment. The GI MTD's must be sized in accordance with its published verification report and have a NJDEP-issued certification letter in order to be accepted for use to meet the green infrastructure requirement specified in N.J.A.C. 7:8-5.3 (Refer to Appendix D for NJDEP-issued certification letter).

Table 2A below indicates the nearest site structure, drainage area to MTD, water quality flow and type of GI MTD. Supporting calculations are in Appendix D - Water Quality MTD Sizing.

Table 2A – Green Infrastructure Manufactured Treatment Device

NEAREST SITE STRUCTURE	DRAINAGE AREA (SF)	WQ FLOW (CFS)	GI MTD SIZING
I-300	1492	0.10	4'x4' Offline Filterra HC
I-87	1587	0.11	4'x4' Offline Filterra HC
I-71/I-74	2224	0.16	4'x4' Offline Filterra HC
I-304	5110	0.36	8'x6' Offline Filterra HC
MH-52	9269	0.65	8'x12' Modular Wetlands Linear
I-368	16669	1.16	8'x20' Modular Wetlands Linear
I-309	7838	0.50	(2) 7.83'x4.5' Offline Filterra HC
MH-15	3009	0.21	4'x8' Modular Wetlands Linear
I-545	5427	0.37	8'x8' Modular Wetlands Linear
I-235	1639	0.11	4'x4' Modular Wetlands Linear
MH-22	1888	0.13	4'x4' Modular Wetlands Linear
I-214	6030	0.42	8'x8' Modular Wetlands Linear
I-219	946	0.07	4'x4' Modular Wetlands Linear
I-470	3638	0.25	4'x8' Modular Wetlands Linear
I-28	331	0.02	4'x4' Offline Filterra HC
I-24	1530	0.11	4'x4' Offline Filterra HC
I-227	1784	0.12	4'x4' Offline Filterra HC
I-131	13411	0.92	8'x16' Modular Wetlands Linear
I-292	12766	0.89	8'x16' Modular Wetlands Linear

RUNOFF QUANTITY:

Post-construction runoff hydrographs for the 2, 10 and 100-year have been analyzed as part of the stormwater management design. Pursuant to N.J.A.C. 7:8-5.6(b) one of the following peak runoff requirements must be met: (1) demonstrate that the post development hydrograph is less than the pre-development hydrograph at all points during 2, 10 and 100 year storm events; (2) demonstrate that the there is no increase in peak runoff rates of stormwater leaving the site for the 2, 10 and 100 year storm events and that the increased volume or change in timing will not increase flood damage at or downstream of the site; or (3) reduce the post-development peak discharge for the 2, 10, and 100-year storm events to release 50%, 75% and 80%, respectively as a result of the proposed development.

The proposed stormwater management system design has been revised to reduce the post-development peak discharge for the 2, 10, and 100-year storm events to release 50%, 75% and 80% (option 3 above) to POI-1 and POI-2. See Appendices A & B for pre- and post-construction hydrographs. POI-3 remains undisturbed.

Table 3 below provides a comparison of the Pre-Developed and Post-Developed peak runoff rates for the current rainfall precipitation depth to POI-1.

Table 3 – Pre-Developed Flow vs. Post-Developed Flow to POI-1 (Current year)

Storm (Year)	Pre-Developed Runoff Rate (cfs)	Allowable % of Pre-Developed Peak Flow	Allowable Post-Developed Runoff Rate (cfs)	Post-Developed Runoff Rate (cfs)	Runoff Rate Increase from Pre-Developed (cfs)	Proposed % Reduced
2	13.14	50	6.57	6.31	-6.83	52.0
10	48.25	75	36.18	34.97	-13.28	26.9
100	144.82	80	115.86	115.79	-29.03	20.0

Table 4 below provides a comparison of the Pre-Developed and Post-Developed peak runoff rate for the projected rainfall precipitation depth to POI-1.

Table 4 – Pre-Developed Flow vs. Post-Developed Flow to POI-1 (Projected year 2100)

Storm (Year)	Pre-Developed Runoff Rate (cfs)	Allowable % of Pre-Developed Peak Flow	Allowable Post-Developed Runoff Rate (cfs)	Post-Developed Runoff Rate (cfs)	Runoff Rate Increase from Pre-Developed (cfs)	Proposed % Reduced
2	22.07	50	11.04	11.00	-10.28	50.0
10	71.98	75	53.99	58.60	-13.38	18.6
100	217.52	80	174.02	153.60	-63.92	29.4

Table 5 below provides a comparison of the Pre-Developed and Post-Developed peak runoff rate for the current rainfall precipitation depth to POI-2.

Table 5 – Pre-Developed Flow vs. Post-Developed Flow to POI-2 (Current year)

Storm (Year)	Pre-Developed Runoff Rate (cfs)	Allowable % of Pre-Developed Peak Flow	Allowable Post-Developed Runoff Rate (cfs)	Post-Developed Runoff Rate (cfs)	Runoff Rate Increase from Pre-Developed (cfs)	Proposed % Reduced
2	8.92	50	4.46	4.44	-4.48	50.2
10	37.91	75	28.43	27.56	-10.35	27.3
100	121.88	80	97.50	48.49	-73.39	60.2

Table 6 below provides a comparison of the Pre-Developed and Post-Developed peak runoff rate for the projected rainfall precipitation depth to POI-2.

Table 6 – Pre-Developed Flow vs. Post-Developed Flow to POI-2 (Projected year 2100)

Storm (Year)	Pre-Developed Runoff Rate (cfs)	Allowable % of Pre-Developed Peak Flow	Allowable Post-Developed Runoff Rate (cfs)	Post-Developed Runoff Rate (cfs)	Runoff Rate Increase from Pre-Developed (cfs)	Proposed % Reduced
2	15.80	50	7.90	6.56	-9.24	58.5
10	57.96	75	43.47	35.21	-22.75	39.3
100	186.55	80	149.24	139.48	-47.07	25.2

Table 7 below provides a comparison of the Pre-Developed and Post-Developed peak runoff rate for the current rainfall precipitation depth to POI-3. The area draining towards POI-3 has remained undisturbed.

Table 7 – Pre-Developed Flow vs. Post-Developed Flow to POI-3 (Current year)

Storm (Year)	Pre-Developed Runoff Rate (cfs)	Allowable Post-Developed Runoff Rate (cfs)	Post-Developed Runoff Rate (cfs)	Runoff Rate Increase from Pre-Developed (cfs)
2	2.17	2.17	1.96	-0.21
10	7.04	7.04	6.68	-0.36
100	20.15	20.15	19.26	-0.89

Table 8 below provides a comparison of the Pre-Developed and Post-Developed peak runoff rate for the projected rainfall precipitation depth to POI-3.

Table 8 – Pre-Developed Flow vs. Post-Developed Flow to POI-3 (Projected year 2100)

Storm (Year)	Pre-Developed Runoff Rate (cfs)	Allowable Post-Developed Runoff Rate (cfs)	Post-Developed Runoff Rate (cfs)	Runoff Rate Increase from Pre-Developed (cfs)
2	3.42	3.42	3.14	-0.28
10	10.36	10.36	9.93	-0.43
100	29.87	29.87	29.27	-0.60

6.0 TECHNIQUES OF ANALYSIS

In accordance with the stormwater runoff calculation methodology at N.J.A.C. 7:8-5.6, the quantity (volume and rate) of stormwater runoff for pre- and post-developed conditions is calculated based on the USDA NRCS methodology as described in NRCS National Engineering Handbook, Part 630.

Pre- and post-developed times of concentration (Tc) are determined using the hydraulically longest flow path. Curve numbers (CN) for the drainage areas are based on the hydrologic soil group and land use. The developed area is made up of Type B and C soils, and therefore the following CN values were utilized:

Type B soils – Woods 55; Open Space 61 and Impervious 98
Type C soils - Woods 70; Open Space 74 and Impervious 98

The impervious areas were calculated as separate subareas to generate hydrographs without weighted CNs as outlined in the CMP N.J.A.C. 7:50-6.84(a) 6.i (2) and the BMP manual chapter 5.

Using the drainage areas, the Tc's and CNs as input data, *Pond Pack Connect Edition,* a hydrologic/hydraulic software program by Bentley, was utilized to generate the runoff rates and volumes.

A curve number of 98 was utilized to size the porous asphalt stone bed for the water quality (WQ) storm design. The calculations route the WQ storm to determine the retention volume of the stone bed and determine the runoff volume leaving the porous asphalt during the 100-year projected storm event. For larger storm events, the 2-, 10- and 100-year current and projected storm events, a reduced curve number has been established. Calculations based on the National Engineering Handbook (NEH), Part 630, Chapter 2 indicated curve number reduction to between 55 and 85. A conservative approach has been utilized in the design for a curve number of 90. Supporting calculations are provided within Appendix D.

7.0 KEY HYDROLOGIC PRINCIPALS

A 24-hour, NOAA _D (Region D) storm distribution was utilized with the following precipitation amounts, within Middlesex County for each storm analyzed. Precipitation adjustment factors are included in the precipitation depths below. (reference Appendix G).

Storm Event	Current	Projected (year 2100)
2 year	3.4 inches	3.9 inches
10 year	5.2 inches	6.2 inches
100 year	8.9 inches	11.5 inches

Water Quality Storm 1.25 inches / 2 hours

8.0 STORMWATER MANAGEMENT

Stormwater management measures are designed so that the post-construction for the peak runoff rates for the 2, 10 and 100-year storm events are 50, 75 and 80 percent, respectively of the pre-construction peak runoff rates. Bentley's Pondpack Connect Edition was used to perform the calculations. Pre- and post-developed drainage area delineations can be found on Sheets CS-9001 and CS-9002 in Appendix H.

Small Scale Bioretention Basin #1

Basin #1 consists of a small-scale bioretention basin. The outlet structure consists of (2) 7.0" dia. orifices, (2) 1.95' wide rectangular weirs (el. 84.65), (2) 2.25' wide rectangular weirs (el. 85.55), and pre-cast concrete box with a grate (el. 86.50). Basin 1 outflow is routed towards an existing FES along the northwesterly corner of the property. Table 9 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current year rainfall, and Table 9A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected year 2100 rainfall.

Table 9 (Current Rainfall)
Basin #1 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	18.92	6.31	42,010	88.83
10	50.33	34.97	60,.884	86.14
100	114.51	110.55	72,528	87.43

Table 9A (Projected year 2100)
Basin #1 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	25.45	11.00	52,382	85.14
10	65.12	58.60	65,160	86.63
100	144.19	140.01	77,303	87.90

Small Scale Subsurface Basin #2

Basin #2 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 1.75' wide rectangular weir (el. 86.25) and a 4-foot rectangular weir (el. 87.00). Basin 2 outflows are routed to Basin 12. Table 10 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current year rainfall, and Table 10A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected year 2100 rainfall.

Table 10 (Current Rainfall)
Basin #2 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.02	3.70	4,092	87.02
10	8.62	7.31	4,572	87.28
100	17.78	13.43	5,152	87.58

Table 10A (Projected year 2100)
Basin #2 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.98	4.50	4,240	87.10
10	10.78	8.89	4,740	87.37
100	24.03	13.43	5,152	87.58

Small Scale Subsurface Basin #3

Basin #3 consists of a small-scale subsurface basin consisting of 48-inch HDPE perforated pipe. The outlet structure consists of a pre-cast concrete box with a 0.85-foot-wide rectangular weir (el. 85.51). Basin 3 outflow is routed to Basin 12. Table 11 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 11A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 11 (Current Rainfall)
Basin #3 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.42	0.40	400	85.84
10	1.21	1.18	1,036	86.16
100	10.44	9.88	7,110	88.14

Table 11A (Projected year 2100)
Basin #3 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.51	0.48	482	85.89
10	2.65	2.58	2,383	86.68
100	22.18	21.25	11,119	90.23

Small Scale Subsurface Basin #4

Basin #4 consists of two adjacent small-scale subsurface basins (Basins 4A and 4B) which were modeled together and consist of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 1-foot-wide rectangular weir (el. 86.10). Basin 4 outflow is routed to Basin 1. Table 12 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 12A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 12 (Current Rainfall)
Basin #4 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.05	0.71	3,989	86.47
10	4.90	2.31	5,594	86.94
100	8.79	5.19	7,558	87.54

Table 12A (Projected year 2100)
Basin #4 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.42	1.10	4,473	86.61
10	5.73	3.01	6,113	87.10
100	11.15	7.30	8,448	87.91

Small Scale Subsurface Basin #5

Basin #5 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of pre-cast concrete box with an 8" diameter orifice (el. 95.00) and a 4-foot rectangular weir (el. 96.90). Basin 5 outflow is routed to Basin 1. Table 13 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 13A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 13 (Current Rainfall)
Basin #5 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.96	1.88	2,046	96.59
10	5.75	5.33	2,503	97.29
100	7.55	7.36	2,604	97.45

Table 13A (Projected year 2100)
Basin #5 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.72	2.18	2,271	96.92
10	7.31	6.39	2,555	97.37
100	8.22	7.70	2,621	97.47

Small Scale Subsurface Basin #6

Basin #6 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 1-foot-wide rectangular weir (el. 95.00) and a 4-foot rectangular weir (el. 97.45). Basin 6 outflows are routed to Basin 5. Table 14 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 14A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 14 (Current Rainfall)
Basin #6 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.09	1.78	2,091	96.65
10	5.27	4.23	2,605	97.45
100	10.02	4.75	2,638	97.50

Table 14A (Projected year 2100)
Basin #6 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.69	2.12	2,323	97.00
10	6.55	4.77	2,638	97.50
100	13.59	5.25	2,638	97.50

Small Scale Subsurface Basin #7

Basin #7 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of pre-cast concrete box with an 8" diameter orifice (el. 99.65) and a 1-foot-wide rectangular weir (el. 101.82). Basin 7 outflow is routed to Basin 1. Table 15 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 15A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 15 (Current Rainfall)
Basin #7 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.46	0.51	1,658	100.12
10	2.45	1.17	2,324	100.47
100	4.62	1.88	3,728	101.24

Table 15A (Projected year 2100)
Basin #7 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.74	0.74	1,863	100.23
10	3.03	1.39	2,685	100.66
100	6.22	2.58	4,788	101.98

Small Scale Infiltration Basin #8

Basin #8 consists of a small-scale infiltration basin. The outlet structure consists of a pre-cast concrete box with a 10" orifice (el. 109.76), a 1.5-foot-wide rectangular weir (el. 110.75) and pre-cast concrete box with a grate (el. 111.48). Basin 8 outflow is routed to Basin 1. Table 16 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 16A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 16 (Current Rainfall)
Basin #8 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.51	0.17	2,229	110.00
10	2.59	0.60	3,346	110.23
100	5.02	1.76	5,401	110.63

Table 16A (Projected year 2100)
Basin #8 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.80	0.26	2,557	110.06
10	3.22	0.89	3,973	110.34
100	6.76	2.39	6,795	110.87

Small Scale Subsurface Basin #9

Basin #9 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 1.5-foot-wide rectangular weir (el. 101.30). Basin 9 outflow is routed to Basin 6. Table 17 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 17A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 17 (Current Rainfall)
Basin #9 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.75	1.38	1,373	101.75
10	2.87	2.41	1,606	101.95
100	5.27	4.66	2,012	102.32

Table 17A (Projected year 2100)
Basin #9 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.06	1.65	1,443	101.81
10	3.51	2.99	1,724	102.06
100	6.98	6.34	2,262	102.56

Small Scale Subsurface Basin #10

Basin #10 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 1.5-foot-wide rectangular weir (el. 107.00). Basin 10 outflow is routed to Basin 8. Table 18 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 18A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 18 (Current Rainfall)
Basin #10 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.93	1.84	3,323	107.55
10	4.76	3.22	3,943	107.80
100	8.69	6.39	5,040	108.26

Table 18A (Projected year 2100)
Basin #10 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.43	2.23	3,505	107.62
10	5.80	4.03	4,254	107.93
100	11.48	9.02	5,742	108.59

Small Scale Subsurface Basin #11

Basin #11 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of pre-cast concrete box with (2) 1-foot rectangular weirs (el. 84.98), and (2) 2-foot rectangular weirs (el. 85.25). Basin 11 outflow is routed to Basin 1. Table 19 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 19A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 19 (Current Rainfall)
Basin #11 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.66	3.40	875	85.48
10	7.24	6.95	1,075	85.69
100	15.96	16.74	1,566	86.30

Table 19A (Projected year 2100)
Basin #11 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	4.56	4.35	1,150	85.47
10	9.26	9.02	1,354	85.73
100	22.65	22.00	1,781	86.36

Small Scale Bioretention Basin #12

Basin #12 consists of a small-scale bioretention basin. The outlet structure consists of a 1.5-foot-wide rectangular weir (el. 86.15) and (2) 2-foot-wide rectangular weirs (el. 87.00), a 4.25-foot rectangular weir (el. 87.50) and pre-cast concrete box with a grate (el. 86.36) which routes flow to Basin 1. A secondary outflow structure with a grate elev. 88.75, diverts flow to the existing 24" RCP. Table 20 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 20A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 20 (Current Rainfall)
Basin #12 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	13.98	10.99	13,090	87.48
10	32.74	30.30	17,034	88.07
100	80.02	76.91	23,125	88.89

Table 20A (Projected year 2100)
Basin #12 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	17.58	14.98	14,311	87.67
10	43.99	39.70	20,219	88.51
100	105.70	103.05	27,324	89.42

Small Scale Subsurface Basin #13

Basin #13 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 1-foot-wide rectangular weir (el. 87.00). Basin 13 outflow is routed to Basin 2. Table 21 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 21A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 21 (Current Rainfall)
Basin #13 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.99	1.66	790	87.67
10	2.99	2.59	938	87.94
100	6.41	5.62	1,306	88.62

Table 21A (Projected year 2100)
Basin #13 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.34	1.85	822	87.73
10	3.67	3.01	1,002	88.05
100	8.43	7.02	1,419	88.85

Small Scale Subsurface Basin #14

Basin #14 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of pre-cast concrete box with an 8" diameter orifice (el. 87.23) and a 4-foot rectangular weir (el. 88.40). Basin 14 outflow is routed to Basin 13. Table 22 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 22A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 22 (Current Rainfall)
Basin #14 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.17	0.81	795	87.93
10	1.90	1.13	1,054	88.40
100	3.43	3.03	1,245	88.75

Table 22A (Projected year 2100)
Basin #14 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.37	0.97	822	87.98
10	2.30	1.49	1,108	88.49
100	4.51	4.02	1,342	88.94

Small Scale Subsurface Basin #15

Basin #15 consists of a small-scale subsurface basin. The outlet structure consists of a 1.75-foot-wide rectangular weir (el. 92.63). Basin 15 outflow is routed to Basin 11. Table 23 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 23A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 23 (Current Rainfall)
Basin #15 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	4.23	2.01	5,234	93.15
10	8.07	4.59	7,468	93.54
100	17.30	11.55	11,566	94.32

Table 23A (Projected year 2100)
Basin #15 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.23	2.61	5,859	93.26
10	10.37	6.07	8,519	93.73
100	25.00	17.57	13,904	94.87

Small Scale Subsurface Basin #16

Basin #16 consists of a small-scale subsurface basin. The outlet structure consists of a 9-inch-wide rectangular weir (el. 94.63). Basin 16 outflows are routed to Basin 15. Table 24 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 24A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 24 (Current Rainfall)
Basin #16 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.52	1.22	8,586	95.29
10	9.36	2.72	12,326	95.77
100	17.85	6.86	18,940	96.73

Table 24A (Projected year 2100)
Basin #16 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	6.57	1.60	9,663	95.43
10	11.61	3.64	14,163	96.01
100	24.05	10.82	22,445	97.49

Small Scale Subsurface Basin #17

Basin #17 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 1-foot-wide rectangular weir (el. 111.50). Basin 17 outflow is routed to the existing Basin 6. Table 25 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 25A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 25 (Current Rainfall)
Basin #17 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.99	0.06	7,746	111.54
10	4.77	0.38	9,778	111.75
100	8.51	2.02	14,641	112.27

Table 25A (Projected year 2100)
Basin #17 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.48	0.13	8,153	111.58
10	5.77	0.74	11,038	111.88
100	11.13	3.43	17,517	112.59

Small Scale Subsurface Basin #18

Basin #18 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 1-foot rectangular weir (el. 95.24) and a 4-foot rectangular weir (el. 96.50). Basin 18 outflow is routed to Basin 12. Table 26 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 26A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 26 (Current Rainfall)
Basin #18 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	4.73	4.03	2,139	96.46
10	10.61	10.48	2,577	96.95
100	25.02	24.39	3,045	97.58

Table 26A (Projected year 2100)
Basin #18 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.55	5.14	2,223	96.58
10	14.42	13.62	2,628	97.12
100	35.05	27.89	3,070	97.72

Small Scale Subsurface Basin #19

Basin #19 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with (3) 3.5" dia. orifices (el. 95.06) and a 4-foot rectangular weir (el. 95.50). Basin 19 outflow is routed to Basin 18. Table 27 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 27A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 27 (Current Rainfall)
Basin #19 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.99	2.76	1,343	96.52
10	7.89	7.37	1,938	97.08
100	18.32	17.61	2,756	97.80

Table 27A (Projected year 2100)
Basin #19 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.97	3.66	1,772	96.64
10	11.07	9.57	2,254	97.20
100	26.07	24.77	2,807	97.97

Small Scale Subsurface Basin #20

Basin #20 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 10" dia. orifice (el. 97.72) and a 4-foot weir el. 98.80. Basin 20 outflow is routed to Basin 19. Table 28 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 28A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 28 (Current Rainfall)
Basin #20 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.44	2.30	6,532	98.83
10	9.52	6.42	8,268	99.25
100	18.54	15.70	10,352	99.82

Table 28A (Projected year 2100)
Basin #20 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	6.57	3.30	7,304	98.97
10	11.96	9.06	9,194	99.43
100	25.47	22.08	11,518	100.13

Small Scale Subsurface Basin #21

Basin #21 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 9-inch-wide rectangular weir (el. 99.25). Basin 21 outflow is routed to Basin 20. Table 29 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 29A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 29 (Current Rainfall)
Basin #21 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.74	1.48	1,054	100.00
10	2.92	2.57	1,254	100.34
100	5.50	5.02	1,597	100.96

Table 29A (Projected year 2100)
Basin #21 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.09	1.79	1,109	100.11
10	3.66	3.24	1,343	100.53
100	7.46	6.80	1,728	101.34

Small Scale Subsurface Basin #22

Basin #22 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 1.5-foot rectangular weir (el. 108.00). Basin 22 outflow is routed to Basin 12. Table 30 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 30A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 30 (Current Rainfall)
Basin #22 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.10	0.14	6,999	108.06
10	5.24	0.87	9,232	108.33
100	9.91	3.89	13,967	108.90

Table 30A (Projected year 2100)
Basin #22 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.69	0.28	7,516	108.12
10	6.49	1.55	10,623	108.49
100	13.31	6.03	16,342	109.21

Off-Site Small Scale Bioretention Basin #25

Basin #25 consists of a small-scale bioretention basin. The outlet structure consists of a 3" diameter orifice (el. 101.35), and pre-cast concrete box with a grate (el. 103.39). Basin 25 outflows are routed to existing off-site Basin 6. Table 31 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 31A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 31 (Current Rainfall)
Basin #25 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	6.23	0.05	22,764	101.53
10	10.65	0.34	31,669	102.07
100	20.42	3.68	45,119	102.83

Table 31A (Projected year 2100)
Basin #25 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	7.47	0.10	25,367	101.69
10	13.32	0.81	34,934	102.26
100	27.79	7.71	55,773	103.39

Small Scale Bioretention Basin #26

Basin #26 consists of a small-scale bioretention basin. The outlet structure consists of a 1.0-foot rectangular weir (el. 97.80), a 1.5-foot rectangular weir (el. 98.50) and pre-cast concrete box with a grate (el. 99.87). Basin 26 outflow is routed to Basin 30. Table 32 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 32A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 32 (Current Rainfall)
Basin #26 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	6.57	1.87	9,067	98.52
10	12.40	6.10	13,476	99.05
100	24.10	14.46	19,905	99.75

Table 32A (Projected year 2100)
Basin #26 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	8.45	2.96	10,419	98.69
10	15.72	8.47	15,457	99.28
100	32.90	21.94	23,527	100.12

Small Scale Subsurface Basin #27

Basin #27 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 12-inch-weir (el. 100.72). Basin 27 outflow is routed to Basin 26. Table 33 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 33A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 33 (Current Rainfall)
Basin #27 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.73	1.27	3,785	101.28
10	4.20	2.92	4,500	101.70
100	7.20	5.82	5,318	102.27

Table 33A (Projected year 2100)
Basin #27 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.13	1.89	4,038	101.45
10	4.99	3.82	4,683	101.89
100	9.27	7.97	5,617	102.64

Small Scale Bioretention Basin #28

Basin #28 consists of a small-scale bioretention basin. The outlet structure consists of a 1.0-foot rectangular weir (el. 91.50) and pre-cast concrete box with a grate (el. 94.32). Basin 28 outflow is routed to Harry's Brook. Table 34 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 34A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 34 (Current Rainfall)
Basin #28 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	6.28	2.98	6,920	92.50
10	10.73	5.53	9,738	93.03
100	20.69	11.44	15,557	94.03

Table 34A (Projected year 2100)
Basin #28 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	7.65	3.70	7,755	92.66
10	13.76	7.18	11,423	93.33
100	30.64	16.31	20,136	94.73

Small Scale Infiltration Basin #29

Basin #29 consists of a small-scale infiltration basin. The outlet structure consists of a 1.5-foot rectangular weir (el. 94.30) and pre-cast concrete box with a grate (el. 95.90). Basin 29 outflow is routed to Basin 28. Table 35 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 35A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 35 (Current Rainfall)
Basin #29 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.75	2.97	1,794	95.06
10	6.30	5.08	2,290	95.38
100	11.88	9.83	3,308	95.95

Table 35A (Projected year 2100)
Basin #29 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	4.44	3.56	1,934	95.15
10	7.78	6.31	2,571	95.55
100	15.93	14.77	3,851	96.22

Small Scale Infiltration Basin #30

Basin #30 consists of a small-scale infiltration basin. The outlet structure consists of 2.5” diameter orifice (el. 91.45), a 2.25-foot rectangular weir (el. 92.62), a 4.33-foot rectangular weir (el. 93.52) and pre-cast concrete box with a grate (el. 95.73). Basin 30 outflow is routed to Harry’s Brook. Table 36 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 36A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 36 (Current Rainfall)
Basin #30 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	14.12	3.74	57,304	93.27
10	31.05	15.78	82,781	94.01
100	87.27	60.06	129,986	95.29

Table 36A (Projected year 2100)
Basin #30 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	18.60	5.57	64,458	93.48
10	42.80	25.42	95,518	94.36
100	129.18	90.89	155,898	95.96

Small Scale Subsurface Basin #31

Basin #31 consists of a small-scale subsurface basin consisting of Stormtech chambers. The outlet structure consists of a pre-cast concrete box with a 10" diameter orifice (el. 93.18). Basin 31 outflow is routed to Basin 30. Table 37 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 37A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 37 (Current Rainfall)
Basin #31 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.90	1.42	3,145	93.95
10	4.47	2.15	4,061	94.27
100	7.70	3.20	6,156	95.08

Table 37A (Projected year 2100)
Basin #31 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.35	1.67	3,407	94.03
10	5.36	2.45	4,619	94.47
100	9.98	3.95	7,713	95.87

Small Scale Subsurface Basin #32

Basin #32 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 1.5-foot rectangular weir (el. 110.50). Basin 22 outflow is routed to Basin 33. Table 38 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 38A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 38 (Current Rainfall)
Basin #32 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	8.10	3.01	10,813	111.26
10	12.77	5.71	14,094	111.67
100	22.46	12.15	19,567	112.44

Table 38A (Projected year 2100)
Basin #32 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	9.41	3.78	11,825	111.39
10	15.38	7.30	15,696	111.88
100	29.29	18.02	22,489	113.02

Small Scale Subsurface Basin #33

Basin #33 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 1.5-foot rectangular weir (el. 106.40). Basin 33 outflow is routed to Basin 30. 39 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 39A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 39 (Current Rainfall)
Basin #33 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	4.20	3.63	2,247	107.26
10	7.85	7.00	3,123	107.74
100	16.09	14.95	4,566	108.63

Table 39A (Projected year 2100)
Basin #33 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.22	4.56	2,514	107.41
10	9.96	8.98	3,551	107.98
100	23.45	22.31	5,419	109.31

Small Scale Subsurface Basin #34

Basin #34 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with an 8” diameter orifice (el. 110.00). Basin 34 outflow is routed to Basin 33. Table 40 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 40A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 40 (Current Rainfall)
Basin #34 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.28	0.35	1,937	110.36
10	2.12	0.79	2,656	110.60
100	3.92	1.47	3,981	111.10

Table 40A (Projected year 2100)
Basin #34 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.51	0.47	2,152	110.43
10	2.60	1.03	2,998	110.72
100	5.21	1.88	4,908	111.58

Small Scale Bioretention Basin #35

Basin #35 consists of a small-scale bioretention basin. The outlet structure consists of a 4" diameter orifice (el. 103.90) and a 3.25-foot rectangular weir (el. 105.75) and pre-cast concrete box with a grate (el. 107.26). Basin 35 outflow is routed to Basin 3. Table 41 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 41A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 41 (Current Rainfall)
Basin #35 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.05	0.38	7,4215	104.88
10	2.91	1.09	13,428	105.89
100	12.33	8.83	19,024	106.64

Table 41A (Projected year 2100)
Basin #35 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.14	0.45	9,145	105.21
10	4.42	2.38	14,597	106.06
100	22.94	18.75	24,082	107.26

Small Scale Bioretention Basin #36

Basin #36 consists of a small-scale bioretention basin. The outlet structure consists of a 1.0-foot rectangular weir (el. 98.75) and pre-cast concrete box with a grate (el. 100.98). Basin 36 outflow is routed to Basin 30. Table 42 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 42A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 42 (Current Rainfall)
Basin #36 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.58	1.81	1,492	99.46
10	4.74	3.47	2,027	99.85
100	9.61	7.20	3,147	100.54

Table 42A (Projected year 2100)
Basin #36 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.16	2.26	1,641	99.57
10	6.03	4.45	2,329	100.05
100	13.14	9.96	3,963	100.98

Small Scale Subsurface Basin #37

Basin #35 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with 1.0-foot rectangular weir (el. 104.50). Basin 37 outflow is routed to Basin 30. Table 43 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 43A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 43 (Current Rainfall)
Basin #37 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.31	0.52	1,982	104.80
10	2.20	1.34	2,501	105.08
100	4.17	2.84	3,195	105.46

Table 43A (Projected year 2100)
Basin #37 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.55	0.79	2,170	104.90
10	2.72	1.73	2,704	105.19
100	5.60	3.96	3,619	105.70

Small Scale Subsurface Basin #41

Basin #41 consists of a small-scale bioretention basin. The outlet structure consists of a pre-cast concrete box with an 8” diameter orifice (el. 104.79). Basin 41 outflow is routed to Basin 12. Table 44 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 44A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 44 (Current Rainfall)
Basin #41 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.60	0.54	345	105.23
10	0.96	0.86	403	105.41
100	1.70	1.43	583	105.87

Table 44A (Projected year 2100)
Basin #41 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.70	0.63	361	105.28
10	1.15	1.03	434	105.50
100	2.21	1.79	650	106.26

Small Scale Subsurface Basin #42

Basin #42 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 0.75-foot rectangular weir (el. 96.00). Basin 42 outflow is routed to Basin 30. Table 45 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 44A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 45 (Current Rainfall)
Basin #42 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.97	1.09	2,223	96.61
10	3.35	2.15	2,789	96.97
100	6.31	4.49	3,694	97.58

Table 45A (Projected year 2100)
Basin #42 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.34	1.39	2,403	96.72
10	4.12	2.75	3,054	97.14
100	8.40	6.49	4,216	98.02

Small Scale Subsurface Basin #43

Basin #43 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with 1.0-foot rectangular weir (el. 99.00). Basin 43 outflow is routed to Basin 45. Table 46 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 46A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 46 (Current Rainfall)
Basin #43 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.60	0.00	1,021	98.83
10	1.13	0.31	1,689	99.21
100	3.31	2.11	2,698	99.79

Table 46A (Projected year 2100)
Basin #43- Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.73	0.04	1,364	99.03
10	1.69	0.66	1,946	99.35
100	4.68	3.39	3,187	100.08

Small Scale Subsurface Basin #44

Basin #44 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with 1.0-foot rectangular weir (el. 102.00). Basin 44 outflow is routed to Basin 43. Table 47 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 47A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 47 (Current Rainfall)
Basin #44 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.73	0.00	1,251	101.96
10	1.18	0.22	1,583	102.15
100	2.11	1.24	2,289	102.55

Table 47A (Projected year 2100)
Basin #44 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.86	0.04	1,371	102.03
10	1.43	0.45	1,809	102.28
100	2.77	1.79	2,554	102.70

Small Scale Bioretention Basin #45

Basin #45 consists of a small-scale bioretention basin. The outlet structure consists of a 0.5-foot rectangular weir (el. 97.08), (2) 3-foot rectangular weirs (el. 98.75) and pre-cast concrete box with a grate (el. 100.43). Basin 42 outflow is routed to Basin 30. Table 48 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 48A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 48 (Current Rainfall)
Basin #45 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	10.68	2.03	24,682	98.31
10	20.63	8.48	37,337	99.12
100	45.10	31.83	51,844	99.98

Table 48A (Projected year 2100)
Basin #45- Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	13.30	2.93	29,824	98.64
10	26.77	13.57	41,263	99.35
100	65.66	48.49	60,348	100.43

Small Scale Subsurface Basin #46

Basin #46 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 10" diameter orifice (el. 104.34). Basin 46 outflows are routed to Basin 45. Table 49 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 49A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 49 (Current Rainfall)
Basin #46 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.14	0.98	838	104.95
10	1.88	1.68	952	105.18
100	3.48	2.69	1,259	105.81

Table 49A (Projected year 2100)
Basin #46 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.34	1.18	869	105.02
10	2.31	1.98	1,016	105.33
100	4.65	3.47	1,521	106.51

Small Scale Subsurface Basin #47

Basin #47 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 10" diameter orifice (el. 108.83). Basin 47 outflow is routed to Basin 20. Table 50 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 50A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 50 (Current Rainfall)
Basin #47 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.88	1.10	2,180	109.49
10	3.11	1.92	2,693	109.78
100	5.79	3.07	4,082	110.62

Table 50A (Projected year 2100)
Basin #47 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.23	1.36	2,330	109.57
10	3.84	2.24	3,018	109.98
100	7.79	4.01	5,185	111.58

Small Scale Subsurface Basin #48

Basin #48 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 15" diameter orifice (el. 101.70). Basin 48 outflow is routed to Basin 20. Table 51 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 51A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 51 (Current Rainfall)
Basin #48 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.72	0.62	389	102.11
10	1.21	1.07	447	102.25
100	2.28	2.03	544	102.48

Table 51A (Projected year 2100)
Basin #48 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	0.87	0.74	410	102.16
10	1.51	1.32	475	102.31
100	3.08	2.79	609	102.64

Small Scale Subsurface Basin #49

Basin #49 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 15" diameter orifice (el. 103.64). Basin 49 outflow is routed to Basin 20. Table 52 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 52A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 52 (Current Rainfall)
Basin #49 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.13	0.97	597	104.16
10	1.93	1.76	695	104.36
100	3.76	3.47	866	104.71

Table 512A (Projected year 2100)
Basin #49 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.35	1.18	628	104.22
10	2.40	2.21	746	104.46
100	5.00	4.77	973	104.93

Small Scale Subsurface Basin #50

Basin #50 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 12" diameter orifice (el. 102.80). Basin 50 outflow is routed to Basin 45. Table 53 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 53A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 53 (Current Rainfall)
Basin #50 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.30	1.16	1,074	103.43
10	2.11	1.94	1,179	102.64
100	3.84	3.39	1,389	104.10

Table 53A (Projected year 2100)
Basin #50 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.52	1.39	1,095	103.49
10	2.57	2.46	1,213	103.76
100	5.10	4.32	1,562	104.60

Small Scale Bioretention Basin #51

Basin #51 consists of a small-scale bioretention basin. The outlet structure consists of a pre-cast concrete box with a 1.5-foot rectangular weir (el. 103.00). Basin 51 outflow is routed to Basin 3. Table 54 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 54A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 54 (Current Rainfall)
Basin #51 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.28	0.10	3,192	103.04
10	2.48	0.83	4,167	103.32
100	5.34	3.45	6,150	103.83

Table 54A (Projected year 2100)
Basin #51 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.62	0.20	3,473	103.12
10	3.28	1.56	4,828	103.49
100	7.62	5.16	7,219	104.10

Small Scale Bioretention Basin #52

Basin #52 consists of a small-scale bioretention basin. The outlet structure consists of a 1.0-foot rectangular weir (el. 100.83) and pre-cast concrete box with a grate (el. 102.03). Basin 52 outflows are routed to Basin 12. Table 55 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 55A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 55 (Current Rainfall)
Basin #52 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.81	1.71	2,322	101.51
10	5.05	3.28	3,148	101.89
100	10.19	6.97	4,915	102.58

Table 55A (Projected year 2100)
Basin #52 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.82	2.13	2,557	101.62
10	6.43	4.26	3,632	102.09
100	14.12	9.78	6,206	103.03

Small Scale Bioretention Basin #53

Basin #53 consists of a small-scale bioretention basin. The outlet structure consists of a 1.0-foot rectangular weir (el. 105.45) and pre-cast concrete box with a grate (el. 106.74). Basin 53 outflow is routed to Basin 12. Table 56 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 56A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 56 (Current Rainfall)
Basin #53 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.24	0.68	1,542	105.81
10	2.25	1.45	1,962	106.06
100	4.57	3.12	2,775	106.48

Table 56A (Projected year 2100)
Basin #53 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.51	0.91	1,672	105.89
10	2.87	1.89	2,184	106.18
100	6.33	4.38	3,363	106.74

Small Scale Subsurface Basin #54

Basin #54 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 12" diameter orifice (el. 99.63). Basin 54 outflows are routed to Basin 12. Table 57 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 57A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 57 (Current Rainfall)
Basin #54 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.12	0.85	803	100.16
10	1.84	1.51	958	100.36
100	3.40	2.93	1,127	100.73

Table 57A (Projected year 2100)
Basin #54 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.32	1.03	850	100.22
10	2.25	1.90	1,036	100.46
100	4.50	3.63	1,440	101.05

Small Scale Subsurface Basin #55

Basin #55 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 1.0-foot rectangular weir (el. 106.79) and a 2.0-foot rectangular weir (el. 107.50). Basin 55 outflow is routed to Basin 12. Table 58 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 58A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 58 (Current Rainfall)
Basin #55 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	7.75	1.49	13,549	107.41
10	12.32	4.41	18,223	107.83
100	21.92	12.03	24,447	108.45

Table 58A (Projected year 2100)
Basin #55 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	8.92	1.91	14,739	107.52
10	14.80	6.21	20,082	108.01
100	28.59	17.85	27,480	108.82

Small Scale Subsurface Basin #56

Basin #56 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 1.0-foot rectangular weir (el. 111.00) and a 2.0-foot rectangular weir (el. 112.50). Basin 56 outflow is routed to Basin 45. Table 59 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 59A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 59 (Current Rainfall)
Basin #56 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	7.19	0.23	16,272	111.15
10	11.59	1.05	22,405	111.50
100	20.74	4.30	35,012	112.24

Table 59A (Projected year 2100)
Basin #56 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	8.41	0.37	17,962	111.24
10	14.03	1.77	25,880	111.70
100	27.15	8.15	41,912	112.79

Small Scale Subsurface Basin #57

Basin #57 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 0.75-foot rectangular weir (el. 112.50). Basin 57 outflow is routed to Basin 45. Table 60 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 60A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 60 (Current Rainfall)
Basin #57 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.94	0.00	9,149	112.27
10	4.66	0.09	12,455	112.61
100	8.23	0.95	16,761	113.06

Table 60A (Projected year 2100)
Basin #57 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.41	0.00	10,720	112.43
10	5.60	0.23	13,280	112.70
100	10.70	2.10	19,941	113.45

Small Scale Bioretention Basin #58

Basin #58 consists of a small-scale bioretention basin. The outlet structure consists of a 0.50-foot rectangular weir (el. 107.15), a 1.50-foot rectangular weir (el. 108.75), and pre-cast concrete box with a grate (el. 109.98). Basin 58 outflow is routed to Basin 59. Table 61 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 61A provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 61 (Current Rainfall)
Basin #58 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	6.29	0.94	11,297	107.88
10	10.87	2.54	17,702	108.57
100	20.85	8.52	27,580	109.52

Table 61A (Projected year 2100)
Basin #58 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	7.59	1.35	13,023	108.08
10	13.65	3.71	20,803	108.90
100	28.34	13.25	32,641	109.98

Small Scale Subsurface Basin #59

Basin #59 consists of a small-scale subsurface basin. The outlet structure consists of a 1.25-foot rectangular weir (el. 105.00), a 1.50-foot rectangular weir (el. 105.50), and a 3.00-foot rectangular weir (el. 106.50). Basin 59 outflow is routed to Basin 35. Table 62 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 62A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 62 (Current Rainfall)
Basin #59 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.26	0.69	17,807	105.91
10	10.45	2.59	31,511	106.73
100	23.13	8.81	44,625	107.88

Table 62A (Projected year 2100)
Basin #59 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	6.73	0.92	23,206	105.39
10	13.65	4.03	35,103	106.14
100	33.80	21.20	51,737	107.45

Small Scale Subsurface Basin #60

Basin #60 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 1-foot rectangular weir (el. 112.10). Basin 60 outflow is routed to Basin 45. Table 63 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 63A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 63 (Current Rainfall)
Basin #60 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	4.66	0.31	9,489	112.31
10	7.47	1.35	13,111	112.68
100	13.38	4.50	19,592	113.41

Table 63A (Projected year 2100)
Basin #60 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.43	0.54	10,479	112.41
10	9.03	2.14	15,106	112.90
100	17.52	6.93	22,889	113.85

Small Scale Subsurface Basin #61

Basin #61 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with an 8” diameter orifice (el. 108.25). Basin 61 outflows are routed to Basin 45. Table 64 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 64A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 64 (Current Rainfall)
Basin #61 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	1.86	0.85	1,999	108.89
10	2.91	1.29	2,651	109.18
100	5.10	1.90	4,144	109.86

Table 64A (Projected year 2100)
Basin #61 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	2.15	1.02	2,179	108.97
10	3.50	1.47	3,035	109.35
100	6.65	2.30	5,297	110.46

Small Scale Subsurface Basin #62

Basin #62 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with an 8" diameter orifice (el. 108.66), a 1.0-foot rectangular weir (el. 110.05). Basin 62 outflow is routed to Basin 45. Table 65 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 65A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 65 (Current Rainfall)
Basin #62 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	4.99	0.49	10,183	109.10
10	7.76	1.16	14,586	109.48
100	13.52	2.20	23,120	110.27

Table 65A (Projected year 2100)
Basin #62 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	5.75	0.68	11,385	109.20
10	9.30	1.40	17,032	109.69
100	17.55	3.93	27,407	110.74

Small Scale Subsurface Basin #63

Basin #63 consists of a small-scale subsurface basin. The outlet structure consists of a pre-cast concrete box with a 0.83-foot rectangular weir (el. 105.00) and a 1.75-foot rectangular weir (el. 106.00). Basin 63 outflow is routed to Basin 45. Table 65 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 65A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 65 (Current Rainfall)
Basin #63 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	3.54	0.63	6,612	105.39
10	5.45	1.80	8,895	105.80
100	9.35	5.02	11,697	106.35

Table 65A (Projected year 2100)
Basin #63 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	4.06	0.93	7,326	105.52
10	6.48	2.42	9,846	105.98
100	12.03	7.63	12,898	106.61

Off-site Bioretention Basin #6

Off-site Basin #6 consists of a previously approved, partially constructed bioretention basin. The basin will be expanded to its previously approved design. Off-site Basin 6 outflow is currently routed through an existing outlet structure to Harry's Brook. No changes to the existing outfall structure are proposed. Table 66 below provides a summary of the basin inflow rates, outflow rates, storage volumes and elevations for the current rainfall and Table 66A provides summary of the basin inflow rates, outflow rates, storage volumes and elevations for the projected rainfall.

Table 66 (Current Rainfall)
Off-site Basin #6 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	32.33	0.39	150,742	91.39
10	53.56	3.79	188,433	91.92
100	103.02	21.64	291,985	93.27

Table 66A (Projected year 2100)
Off-site Basin #6 - Proposed Basin Parameters

Storm (year)	Peak Inflow (cfs)	Peak Outflow Routed (cfs)	Storage Volume (cf)	Peak Elevations (ft)
2	38.18	1.04	161,931	91.55
10	66.25	7.36	214,108	92.27
100	141.92	38.16	366,837	94.16

9.0 GROUNDWATER MOUNDING

A groundwater mounding (GWM) analysis has been performed to determine the height and range of groundwater mounding beneath the stormwater infiltration facility.

The U.S. Geological Survey (USGS), in coordination with N.J. Department of Environmental Protection developed a report entitled "Simulation of Groundwater Mounding Beneath Hypothetical Stormwater Infiltration Basins", this report outlines the method utilized for analysis of groundwater mounding.

As spreadsheet was then developed by USGS to solve the Hantush equation, referred to as the

Hantush Spreadsheet, which calculates the maximum height of the mounding formed and assumes all groundwater flow is horizontal above an infinite aquifer.

The maximum height of mounding occurs when the entire volume of runoff has been infiltrated into the subsoil through the bottom of the infiltration basin. Adjustment of the recharge rate to a lower value allows slower infiltration of runoff and more time for the infiltrated runoff to dissipate into the saturated zone. A reduced recharge rate will have a smaller mounding height but result in a longer duration of infiltration period. Several trials of different reduced recharge rates may be needed to find which recharge rate works. The duration of infiltration period based on the reduced recharge rate may not exceed 72 hours.

Note: All basins infiltrate in less than 72 hours.

Utilizing the Hantush method and minimum input model parameters in accordance with NJ BMP Manual, Groundwater Table Hydraulic Assessment Guide for Infiltration BMP's, Chapter 13, the maximum height and range of the groundwater mound was calculated (Refer to the Appendix E for Hantush GWM spreadsheet). Note that the Hantush method is uses conservative values for the horizontal hydraulic conductivity (Kh) in the calculations. Limiting Kh to the recharge rate results.

A higher Kh would result in a flatter curve, less mounding height and a greater horizontal distance with hydraulic conductive zone effects further out.

$$\text{Duration of Infiltration Period, } t = \frac{\text{volume of runoff to be infiltrated (cf)*}}{\text{Infiltration area (sf) x recharge rate (ft/day)}}$$

Refer to Appendix E for groundwater mounding calculations.

10.0 STORM SEWER DESIGN

Storm sewer design consists of Type "B" and "E" inlets, manholes, and HDPE and RCP storm pipes. All proposed conveyance systems have been sized to accommodate the 25-year storm event (Appendix F). Rainfall intensities are based on NOAA data for Township of Plainsboro and Township of South Brunswick, NJ (Appendix G). The infrastructure is depicted on sheet CS9002, Inlet Drainage Area Plan (Appendix H).

11.0 SOIL EROSION AND SEDIMENT CONTROL

The project will comply with the minimum design and performance standards for erosion control established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq. and implementing rules. Anticipated BMP's to be included in the Soil Erosion and Sediment Control

Plan will include, structural and non-structural soil erosion BMP's to be implemented during construction, including: minimizing the area of disturbance, placement of silt fencing around the limit of disturbance, temporary soil stockpiles surrounded with silt fencing, temporary vegetative cover standards, inlet filter covers over all existing and proposed stormwater inlets, and an anti-tracking stabilized construction entrance (see Dwg. CS8001). The project will be submitted to the Freehold Soil Conservation District for certification of a Soil Erosion and Sediment Control Plan prior to commencement of construction.

12.0 CONCLUSION

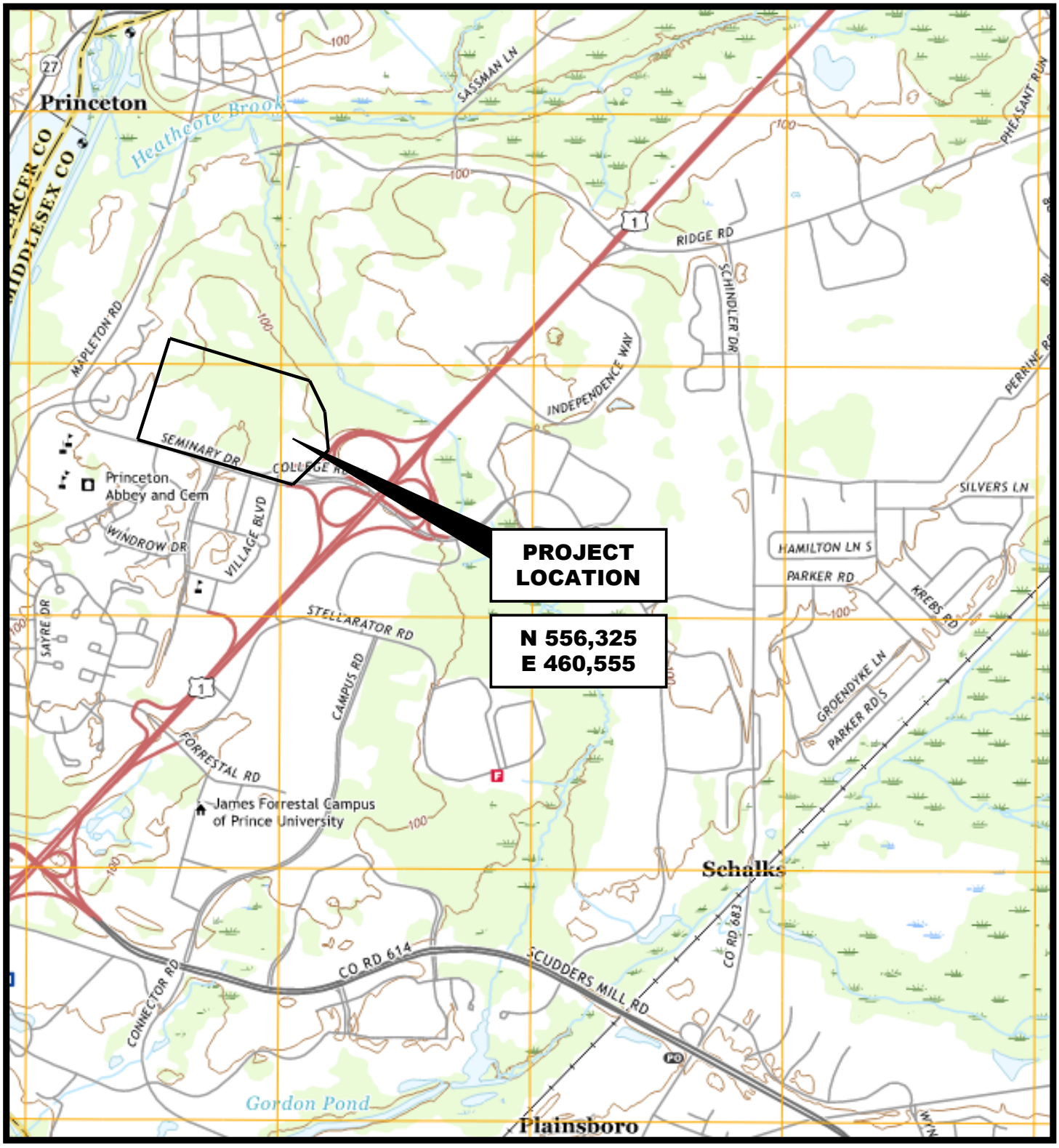
Pursuant to N.J.A.C. 7:8-5, the proposed stormwater management system has been designed such that:

- Post-construction for the peak runoff rates for the 2, 10 and 100-year storm events are no greater than 50, 75 and 80 percent, respectively of the pre-construction peak runoff rates for developed areas.

- The site has been designed to provide TSS removal for the motor vehicle surface area at a rate of 80% utilizing small scale green infrastructure BMP's such as porous asphalt, bioretention basins, infiltration basins and subsurface infiltration basins.

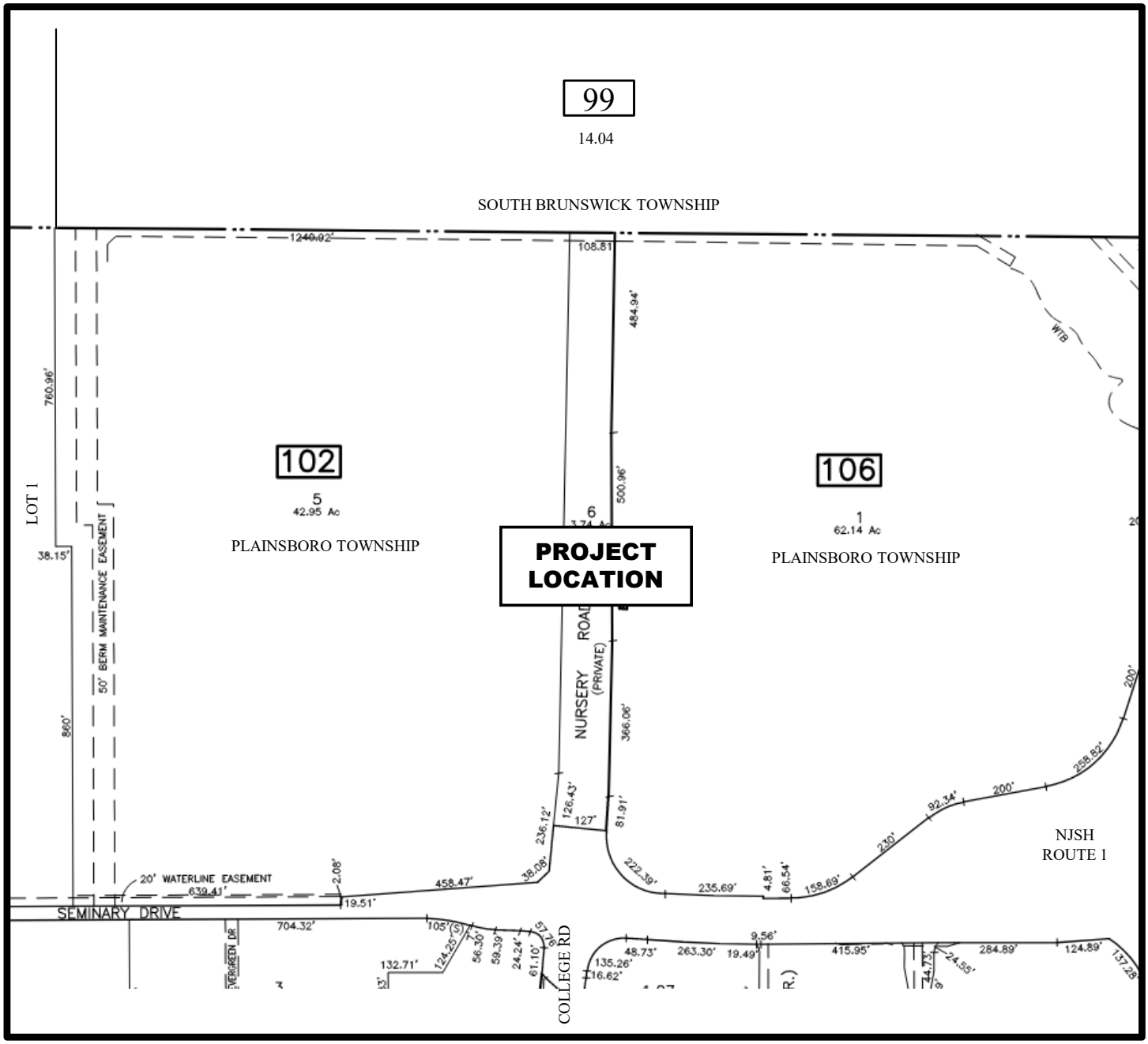
- Groundwater recharge has been met by infiltrating 100 percent of the site's average annual pre-developed groundwater recharge volume after development. The water will be infiltrated within Basins 1 through 22.

Exhibits



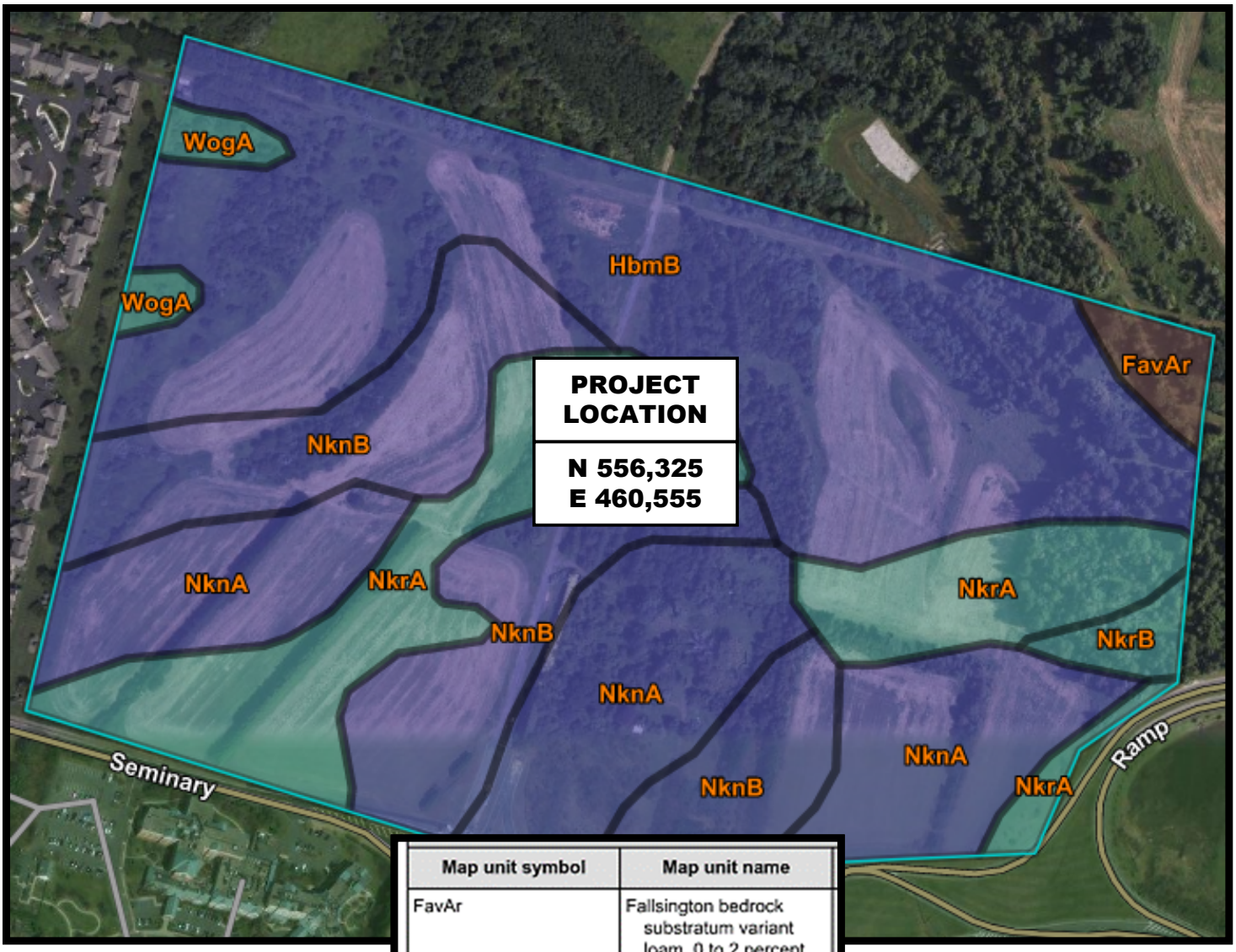
USGS Quad Map, Hightstown, NJ

vhh van note-harvey division of pennoni		PRINCETON NURSERIES BLOCK 102, LOTS 5 & 6, BLOCK 106, LOT 1 , PLAINSBORO TOWNSHIP BLOCK 99, LOT 14.04, SOUTH BRUNSWICK TOWNSHIP MIDDLESEX COUNTY, NEW JERSEY
Job No. WRNUL23001	Scale: 1"=2,000'	Figure 1 – Location Map



Plainsboro Twp, Tax Map Plate 1
South Brunswick, Tax Map Plate 23

vnh van note-harvey division of pennoni		PRINCETON NURSERIES BLOCK 102, LOTS 5 & 6, BLOCK 106, LOT 1 , PLAINSBORO TOWNSHIP BLOCK 99, LOT 14.04, SOUTH BRUNSWICK TOWNSHIP MIDDLESEX COUNTY, NEW JERSEY
Job No. WRNUL23001	Scale: NTS	Figure 2 – Tax Map



Map unit symbol	Map unit name
FavAr	Fallsington bedrock substratum variant loam, 0 to 2 percent slopes, rarely flooded
HbmB	Hammonton loamy sand, 0 to 5 percent slopes
NknA	Nixon loam, 0 to 2 percent slopes
NknB	Nixon loam, 2 to 5 percent slopes
NkrA	Nixon moderately well drained variant loam, 0 to 2 percent slopes
NkrB	Nixon moderately well drained variant loam, 2 to 5 percent slopes
WogA	Woodstown loam, 0 to 2 percent slopes, Northern Coastal Plain

NRCS WebSoil Survey, Middlesex County, NJ

vanote-harvey division of pennoni

PRINCETON NURSERIES

BLOCK 102, LOTS 5 & 6, BLOCK 106, LOT 1 , PLAINSBORO TOWNSHIP
BLOCK 99, LOT 14.04, SOUTH BRUNSWICK TOWNSHIP
MIDDLESEX COUNTY, NEW JERSEY

Job No. WRNUL23001

Scale: NTS

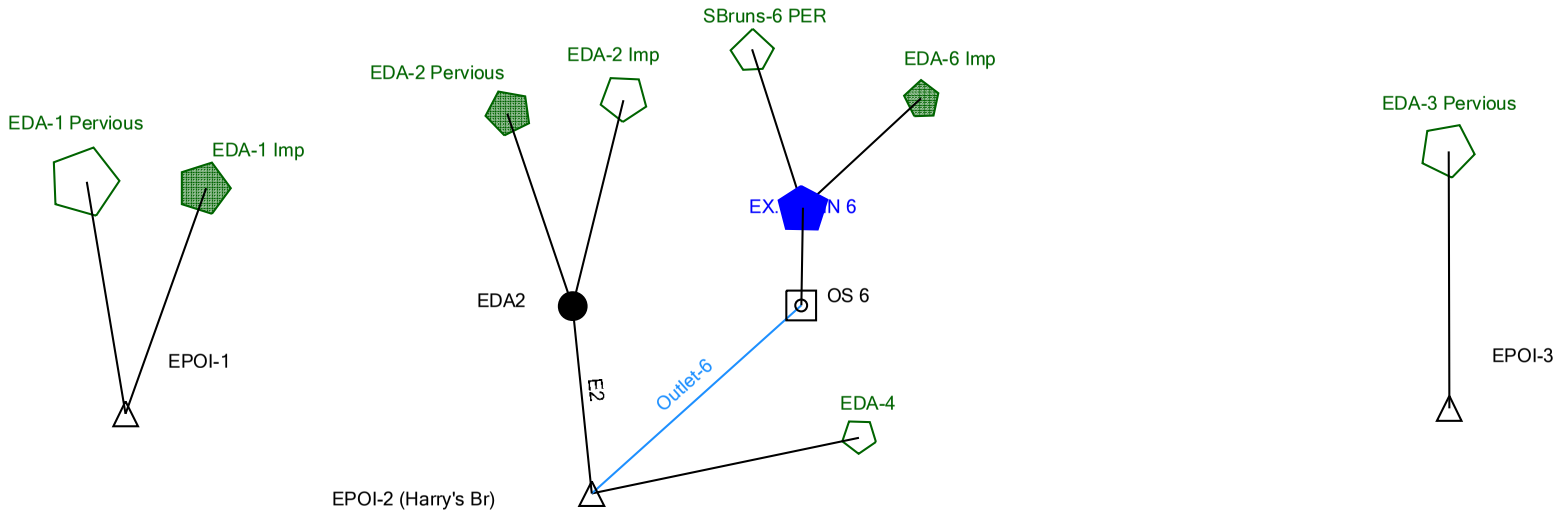
Figure 3 – Soils Map

FEMA Panel Number 34023C0226F, effective 7/6/2010 , Plainsboro Township, NJ

		PRINCETON NURSERIES BLOCK 102, LOTS 5 & 6, BLOCK 106, LOT 1 , PLAINSBORO TOWNSHIP BLOCK 99, LOT 14.04, SOUTH BRUNSWICK TOWNSHIP MIDDLESEX COUNTY, NEW JERSEY
Job No. WRNUL23001	Scale: NTS	Figure 4 – FEMA Map

Appendix A

PRE-DEVELOPED



Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Gravel (w/ right-of-way) - Soil B	85.000	0.350	0.0	0.0	85.000
Impervious Areas - Paved; curbs and storm sewers - Soil B	98.000	0.150	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.500	(N/A)	(N/A)	88.900

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-1 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Pasture, grassland, or range - good - Soil B	61.000	40.460	0.0	0.0	61.000
Grass/Meadow C soils	71.000	2.010	0.0	0.0	71.000
Woods B soil	55.000	0.540	0.0	0.0	55.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	43.010	(N/A)	(N/A)	61.392

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Gravel (w/ right-of-way) - Soil B	85.000	0.200	0.0	0.0	85.000
Impervious Areas - Paved; curbs and storm sewers - Soil B	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.500	(N/A)	(N/A)	92.800

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-2 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass/Meadow B soil	58.000	20.900	0.0	0.0	58.000
Woods B soil	55.000	15.200	0.0	0.0	55.000
Grass/Meadow C soil	71.000	2.600	0.0	0.0	71.000
Woods C soil	70.000	3.000	0.0	0.0	70.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	41.700	(N/A)	(N/A)	58.580

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-3 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	0.790	0.0	0.0	74.000
Woods - good - Soil B	55.000	0.500	0.0	0.0	55.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B	61.000	2.600	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.890	(N/A)	(N/A)	62.869

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods B soil	55.000	0.790	0.0	0.0	55.000
Woods C soil	70.000	0.270	0.0	0.0	70.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.060	(N/A)	(N/A)	58.821

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.790	0.0	0.0	98.000
Impervious non vehicular	98.000	0.090	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.880	(N/A)	(N/A)	98.000

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: SBruns-6 PER
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Basin 6 area	61.000	1.910	0.0	0.0	61.000
Woods	55.000	2.530	0.0	0.0	55.000
Grass B soil	61.000	0.850	0.0	0.0	61.000
Grass C soil	74.000	0.030	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	5.320	(N/A)	(N/A)	58.220

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Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	21.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.79 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	676.00 ft
Is Paved?	False
Slope	0.008 ft/ft
Average Velocity	1.44 ft/s
Segment Time of Concentration	0.13 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	100.00 ft
Is Paved?	False
Slope	0.048 ft/ft
Average Velocity	3.53 ft/s
Segment Time of Concentration	0.01 hours

Segment #4: TR-55 Channel Flow	
Flow Area	9.3 ft²
Hydraulic Length	654.00 ft
Manning's n	0.030
Slope	0.029 ft/ft
Wetted Perimeter	11.80 ft
Average Velocity	7.22 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.17 hours

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-1 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.170
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.15 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,360.00 ft
Is Paved?	False
Slope	0.028 ft/ft
Average Velocity	2.70 ft/s
Segment Time of Concentration	0.14 hours

Segment #3: TR-55 Channel Flow	
Flow Area	9.3 ft²
Hydraulic Length	325.00 ft
Manning's n	0.030
Slope	0.030 ft/ft
Wetted Perimeter	11.80 ft
Average Velocity	7.34 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.30 hours

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-1 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.42 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	245.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	671.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.04 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-2 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.23 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,271.00 ft
Is Paved?	False
Slope	0.023 ft/ft
Average Velocity	2.45 ft/s
Segment Time of Concentration	0.14 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.38 hours

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-2 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-3 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	70.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.34 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	428.00 ft
Is Paved?	False
Slope	0.039 ft/ft
Average Velocity	3.17 ft/s
Segment Time of Concentration	0.04 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-3 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	82.00 ft
Manning's n	0.400
Slope	0.048 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.21 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.21 hours

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.97 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	2,300.00 ft
Manning's n	0.012
Slope	0.010 ft/ft
Wetted Perimeter	3.14 ft
Average Velocity	12.42 ft/s
Segment Time of Concentration	0.05 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: SBruns-6 PER
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.16 ft/s
Segment Time of Concentration	0.17 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	217.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.19 hours

Pre-Developed Tc Calculations Current Rainfall

Subsection: Time of Concentration Calculations
Label: SBruns-6 PER
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

PRE-DEVELOPED
CURRENT RAINFALL

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Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)
EDA-1 Pervious	2YR	2	1.894	12.30	12.54
EDA-1 Pervious	10YR	10	5.343	12.25	46.96
EDA-1 Pervious	100YR	100	15.140	12.25	142.45
EDA-2 Pervious	2YR	2	1.567	12.35	8.32
EDA-2 Pervious	10YR	10	4.689	12.30	36.31
EDA-2 Pervious	100YR	100	13.823	12.30	117.80
EDA-2 Imp	2YR	2	0.110	12.10	1.49
EDA-2 Imp	10YR	10	0.183	12.10	2.41
EDA-2 Imp	100YR	100	0.340	12.10	4.31
EDA-1 Imp	2YR	2	0.094	12.15	1.12
EDA-1 Imp	10YR	10	0.165	12.15	1.90
EDA-1 Imp	100YR	100	0.320	12.15	3.54
EDA-3 Pervious	2YR	2	0.198	12.15	2.17
EDA-3 Pervious	10YR	10	0.531	12.10	7.04
EDA-3 Pervious	100YR	100	1.449	12.10	20.15
EDA-6 Imp	2YR	2	0.232	12.10	3.07
EDA-6 Imp	10YR	10	0.364	12.10	4.72
EDA-6 Imp	100YR	100	0.642	12.10	8.19
SBruns-6 PER	2YR	2	0.184	12.20	1.20
SBruns-6 PER	10YR	10	0.568	12.20	5.72
SBruns-6 PER	100YR	100	1.709	12.15	19.09
EDA-4	2YR	2	0.040	12.20	0.27
EDA-4	10YR	10	0.119	12.20	1.19
EDA-4	100YR	100	0.351	12.20	3.80

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)
EPOI-1	2YR	2	1.989	12.30	13.14
EPOI-1	10YR	10	5.508	12.25	48.25
EPOI-1	100YR	100	15.459	12.25	144.82
EPOI-2 (Harry's Br)	2YR	2	1.717	12.35	8.92
EPOI-2 (Harry's Br)	10YR	10	4.991	12.30	37.91
EPOI-2 (Harry's Br)	100YR	100	14.913	12.25	121.88
EPOI-3	2YR	2	0.198	12.15	2.17
EPOI-3	10YR	10	0.531	12.10	7.04
EPOI-3	100YR	100	1.449	12.10	20.15
EDA2	2YR	2	1.677	12.35	8.71
EDA2	10YR	10	4.872	12.30	37.02
EDA2	100YR	100	14.163	12.30	119.07

Pre-Developed Hydrographs Current Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft^3/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
EX. BASIN 6 (IN)	2YR	2	0.416	12.10	3.62	(N/A)	(N/A)
EX. BASIN 6 (OUT)	2YR	2	0.000	0.00	0.00	89.32	0.412
EX. BASIN 6 (IN)	10YR	10	0.932	12.10	9.03	(N/A)	(N/A)
EX. BASIN 6 (OUT)	10YR	10	0.000	0.00	0.00	89.70	0.927
EX. BASIN 6 (IN)	100YR	100	2.351	12.10	23.86	(N/A)	(N/A)
EX. BASIN 6 (OUT)	100YR	100	0.399	24.15	0.16	90.62	2.234

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Storm Event	2yr Current NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	1.12 ft^3/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	1.12 ft^3/s

Drainage Area	
SCS CN (Composite)	89.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.3 in
Runoff Volume (Pervious)	0.094 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.094 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.57 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

Storm Event	10yr Current NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	1.91 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	1.90 ft³/s

Drainage Area	
SCS CN (Composite)	89.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.0 in
Runoff Volume (Pervious)	0.165 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.165 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.57 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

Storm Event	100yr Current NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	9.0 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	3.56 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	3.54 ft³/s

Drainage Area	
SCS CN (Composite)	89.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.7 in
Runoff Volume (Pervious)	0.320 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.320 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.57 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Storm Event	2yr Current NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.30 hours
Area (User Defined)	43.010 acres
Computational Time Increment	0.04 hours
Time to Peak (Computed)	12.29 hours
Flow (Peak, Computed)	12.67 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.30 hours
Flow (Peak Interpolated Output)	12.54 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	43.010 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	1.894 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.894 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.30 hours
Computational Time Increment	0.04 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	161.84 ft³/s
Unit peak time, Tp	0.20 hours
Unit receding limb, Tr	0.80 hours
Total unit time, Tb	1.00 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

Storm Event	10yr Current NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.30 hours
Area (User Defined)	43.010 acres
Computational Time Increment	0.04 hours
Time to Peak (Computed)	12.25 hours
Flow (Peak, Computed)	47.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.25 hours
Flow (Peak Interpolated Output)	46.96 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	43.010 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	5.343 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5.343 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.30 hours
Computational Time Increment	0.04 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	161.84 ft³/s
Unit peak time, Tp	0.20 hours
Unit receding limb, Tr	0.80 hours
Total unit time, Tb	1.00 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

Storm Event	100yr Current NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	9.0 in
Time of Concentration (Composite)	0.30 hours
Area (User Defined)	43.010 acres
Computational Time Increment	0.04 hours
Time to Peak (Computed)	12.25 hours
Flow (Peak, Computed)	143.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.25 hours
Flow (Peak Interpolated Output)	142.45 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	43.010 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.2 in
Runoff Volume (Pervious)	15.139 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15.140 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.30 hours
Computational Time Increment	0.04 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	161.84 ft³/s
Unit peak time, Tp	0.20 hours
Unit receding limb, Tr	0.80 hours
Total unit time, Tb	1.00 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Storm Event	2yr Current NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.500 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.51 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.49 ft³/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	0.8 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.6 in
Runoff Volume (Pervious)	0.110 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.110 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.60 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

Storm Event	10yr Current NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	2.44 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.41 ft³/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	0.8 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.4 in
Runoff Volume (Pervious)	0.183 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.183 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.60 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

Storm Event	100yr Current NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	9.0 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.500 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	4.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.31 ft³/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	0.8 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.2 in
Runoff Volume (Pervious)	0.340 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.340 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.60 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Storm Event	2yr Current NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.38 hours
Area (User Defined)	41.700 acres
Computational Time Increment	0.05 hours
Time to Peak (Computed)	12.35 hours
Flow (Peak, Computed)	8.33 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.35 hours
Flow (Peak Interpolated Output)	8.32 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	41.700 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	1.567 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.567 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.38 hours
Computational Time Increment	0.05 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	125.99 ft³/s
Unit peak time, Tp	0.25 hours
Unit receding limb, Tr	1.00 hours
Total unit time, Tb	1.25 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

Storm Event	10yr Current NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.38 hours
Area (User Defined)	41.700 acres
Computational Time Increment	0.05 hours
Time to Peak (Computed)	12.30 hours
Flow (Peak, Computed)	36.33 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.30 hours
Flow (Peak Interpolated Output)	36.31 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	41.700 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.3 in
Runoff Volume (Pervious)	4.689 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4.689 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.38 hours
Computational Time Increment	0.05 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	125.99 ft³/s
Unit peak time, Tp	0.25 hours
Unit receding limb, Tr	1.00 hours
Total unit time, Tb	1.25 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

Storm Event	100yr Current NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	9.0 in
Time of Concentration (Composite)	0.38 hours
Area (User Defined)	41.700 acres

Computational Time Increment	0.05 hours
Time to Peak (Computed)	12.30 hours
Flow (Peak, Computed)	117.81 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.30 hours
Flow (Peak Interpolated Output)	117.80 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	41.700 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.0 in
Runoff Volume (Pervious)	13.823 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13.823 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.38 hours
Computational Time Increment	0.05 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	125.99 ft³/s
Unit peak time, Tp	0.25 hours
Unit receding limb, Tr	1.00 hours
Total unit time, Tb	1.25 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Storm Event	2yr Current NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	2.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	2.17 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.6 in
Runoff Volume (Pervious)	0.198 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.198 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	46.85 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

Storm Event	10yr Current NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	7.40 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	7.04 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.6 in
Runoff Volume (Pervious)	0.531 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.531 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	46.85 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

Storm Event	100yr Current NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	9.0 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	20.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	20.15 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.5 in
Runoff Volume (Pervious)	1.449 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.449 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	46.85 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Storm Event	2yr Current NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.21 hours
Area (User Defined)	1.060 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.22 hours
Flow (Peak, Computed)	0.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	0.040 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.040 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.21 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.75 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.56 hours
Total unit time, Tb	0.70 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

Storm Event	10yr Current NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.21 hours
Area (User Defined)	1.060 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	1.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	1.19 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.3 in
Runoff Volume (Pervious)	0.119 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.119 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.21 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.75 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.56 hours
Total unit time, Tb	0.70 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

Storm Event	100yr Current NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	9.0 in
Time of Concentration (Composite)	0.21 hours
Area (User Defined)	1.060 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	3.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	3.80 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.0 in
Runoff Volume (Pervious)	0.351 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.351 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.21 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.75 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.56 hours
Total unit time, Tb	0.70 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Storm Event	2yr Current NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.880 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.07 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.880 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	0.232 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.232 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.89 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

Storm Event	10yr Current NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.880 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.72 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.880 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	0.364 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.364 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.89 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

Storm Event	100yr Current NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	9.0 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.880 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	8.20 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	8.19 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.880 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.8 in
Runoff Volume (Pervious)	0.642 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.642 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.89 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Storm Event	2yr Current NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	5.320 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.21 hours
Flow (Peak, Computed)	1.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	1.20 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	5.320 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.4 in
Runoff Volume (Pervious)	0.184 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.184 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	31.46 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

Storm Event	10yr Current NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	5.320 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.18 hours
Flow (Peak, Computed)	5.87 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	5.72 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	5.320 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.3 in
Runoff Volume (Pervious)	0.568 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.568 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 10YR

Return Event: 10 years
Storm Event: 10yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	31.46 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Pre-Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

Storm Event	100yr Current NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	9.0 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	5.320 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.16 hours
Flow (Peak, Computed)	19.47 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	19.09 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	5.320 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.9 in
Runoff Volume (Pervious)	1.709 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.709 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-Developed Hydrographs Current Rainfall

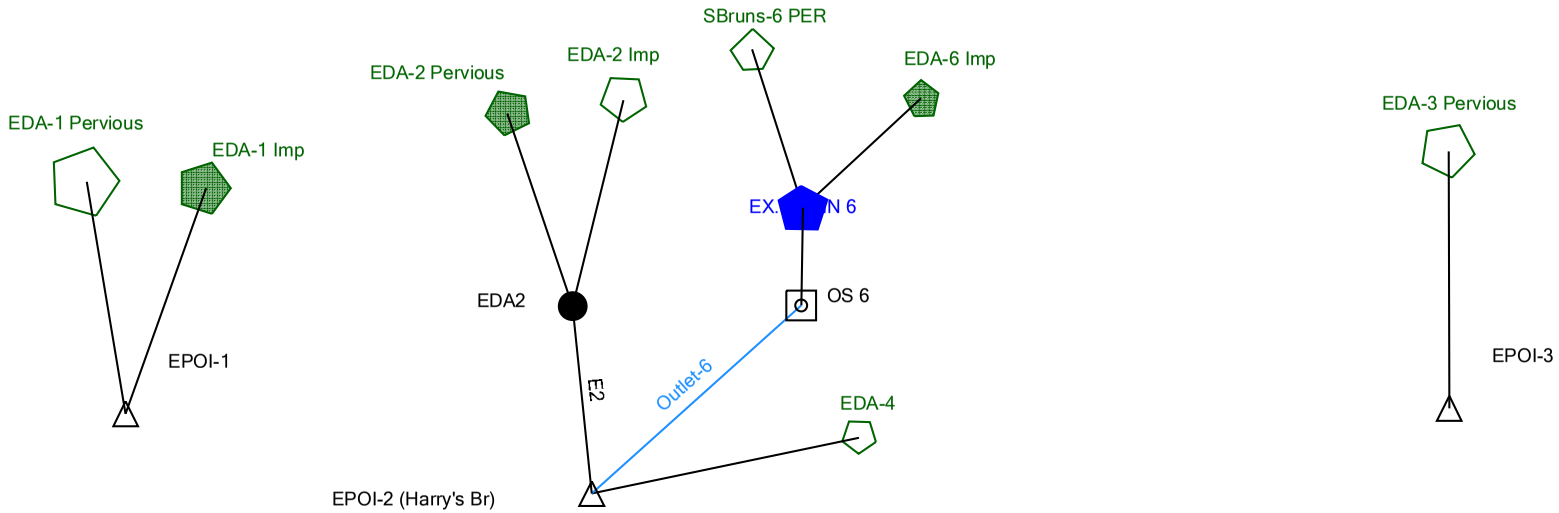
Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr Current NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	31.46 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

PRE-DEVELOPED
PROJECTED RAINFALL

PRE-DEVELOPED



Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Gravel (w/ right-of-way) - Soil B	85.000	0.350	0.0	0.0	85.000
Impervious Areas - Paved; curbs and storm sewers - Soil B	98.000	0.150	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.500	(N/A)	(N/A)	88.900

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-1 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Pasture, grassland, or range - good - Soil B	61.000	40.460	0.0	0.0	61.000
Grass/Meadow C soils	71.000	2.010	0.0	0.0	71.000
Woods B soil	55.000	0.540	0.0	0.0	55.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	43.010	(N/A)	(N/A)	61.392

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Gravel (w/ right-of-way) - Soil B	85.000	0.200	0.0	0.0	85.000
Impervious Areas - Paved; curbs and storm sewers - Soil B	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.500	(N/A)	(N/A)	92.800

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-2 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass/Meadow B soil	58.000	20.900	0.0	0.0	58.000
Woods B soil	55.000	15.200	0.0	0.0	55.000
Grass/Meadow C soil	71.000	2.600	0.0	0.0	71.000
Woods C soil	70.000	3.000	0.0	0.0	70.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	41.700	(N/A)	(N/A)	58.580

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-3 Pervious
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	0.790	0.0	0.0	74.000
Woods - good - Soil B	55.000	0.500	0.0	0.0	55.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B	61.000	2.600	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.890	(N/A)	(N/A)	62.869

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods B soil	55.000	0.790	0.0	0.0	55.000
Woods C soil	70.000	0.270	0.0	0.0	70.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.060	(N/A)	(N/A)	58.821

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: EDA-6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.790	0.0	0.0	98.000
Impervious non vehicular	98.000	0.090	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.880	(N/A)	(N/A)	98.000

Pre-Developed Curve Numbers

Subsection: Runoff CN-Area
Label: SBruns-6 PER
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr Current NOAA D

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Basin 6 area	61.000	1.910	0.0	0.0	61.000
Woods	55.000	2.530	0.0	0.0	55.000
Grass B soil	61.000	0.850	0.0	0.0	61.000
Grass C soil	74.000	0.030	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	5.320	(N/A)	(N/A)	58.220

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Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	21.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.84 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	676.00 ft
Is Paved?	False
Slope	0.008 ft/ft
Average Velocity	1.44 ft/s
Segment Time of Concentration	0.13 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	100.00 ft
Is Paved?	False
Slope	0.048 ft/ft
Average Velocity	3.53 ft/s
Segment Time of Concentration	0.01 hours

Segment #4: TR-55 Channel Flow	
Flow Area	9.3 ft²
Hydraulic Length	654.00 ft
Manning's n	0.030
Slope	0.028 ft/ft
Wetted Perimeter	11.80 ft
Average Velocity	7.09 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.17 hours

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-1 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.170
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.20 ft/s
Segment Time of Concentration	0.14 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,360.00 ft
Is Paved?	False
Slope	0.028 ft/ft
Average Velocity	2.70 ft/s
Segment Time of Concentration	0.14 hours

Segment #3: TR-55 Channel Flow	
Flow Area	9.3 ft²
Hydraulic Length	325.00 ft
Manning's n	0.030
Slope	0.030 ft/ft
Wetted Perimeter	11.80 ft
Average Velocity	7.34 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.29 hours

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-1 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.52 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	245.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	671.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.04 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-2 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.22 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,271.00 ft
Is Paved?	False
Slope	0.023 ft/ft
Average Velocity	2.45 ft/s
Segment Time of Concentration	0.14 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.36 hours

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-2 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-3 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	70.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.37 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	428.00 ft
Is Paved?	False
Slope	0.039 ft/ft
Average Velocity	3.17 ft/s
Segment Time of Concentration	0.04 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-3 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	82.00 ft
Manning's n	0.400
Slope	0.048 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.19 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.19 hours

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.04 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	2,300.00 ft
Manning's n	0.012
Slope	0.010 ft/ft
Wetted Perimeter	3.14 ft
Average Velocity	12.42 ft/s
Segment Time of Concentration	0.05 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: SBruns-6 PER
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.16 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	217.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.18 hours

Pre-developed Tc Calculations Projected Rainfall

Subsection: Time of Concentration Calculations
Label: SBruns-6 PER
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

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Pre-developed Hydrographs Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft^3/s)
EDA-1 Pervious	2YR Projected	2	2.732	12.25	21.15
EDA-1 Pervious	10YR Projected	10	7.648	12.25	70.41
EDA-1 Pervious	100YR Projected	100	22.446	12.20	213.50
EDA-2 Pervious	2YR Projected	2	2.314	12.30	14.88
EDA-2 Pervious	10YR Projected	10	6.812	12.30	55.84
EDA-2 Pervious	100YR Projected	100	20.727	12.25	179.74
EDA-2 Imp	2YR Projected	2	0.130	12.10	1.75
EDA-2 Imp	10YR Projected	10	0.224	12.10	2.92
EDA-2 Imp	100YR Projected	100	0.442	12.10	5.55
EDA-1 Imp	2YR Projected	2	0.114	12.15	1.33
EDA-1 Imp	10YR Projected	10	0.205	12.15	2.33
EDA-1 Imp	100YR Projected	100	0.421	12.15	4.58
EDA-3 Pervious	2YR Projected	2	0.280	12.10	3.42
EDA-3 Pervious	10YR Projected	10	0.749	12.10	10.36
EDA-3 Pervious	100YR Projected	100	2.125	12.10	29.87
EDA-6 Imp	2YR Projected	2	0.269	12.10	3.53
EDA-6 Imp	10YR Projected	10	0.436	12.10	5.63
EDA-6 Imp	100YR Projected	100	0.823	12.10	10.45
SBruns-6 PER	2YR Projected	2	0.275	12.20	2.33
SBruns-6 PER	10YR Projected	10	0.832	12.15	9.12
SBruns-6 PER	100YR Projected	100	2.579	12.15	30.14
EDA-4 Perv	2YR Projected	2	0.059	12.20	0.51
EDA-4 Perv	10YR Projected	10	0.173	12.20	1.83
EDA-4 Perv	100YR Projected	100	0.527	12.15	5.90

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft^3/s)
EPOI-1	2YR Projected	2	2.846	12.25	22.07
EPOI-1	10YR Projected	10	7.853	12.25	71.98
EPOI-1	100YR Projected	100	22.868	12.20	217.52
EPOI-2 (Harry's Br)	2YR Projected	2	2.503	12.30	15.80
EPOI-2 (Harry's Br)	10YR Projected	10	7.209	12.30	57.96
EPOI-2 (Harry's Br)	100YR Projected	100	22.361	12.25	186.55
EPOI-3	2YR Projected	2	0.280	12.10	3.42
EPOI-3	10YR Projected	10	0.749	12.10	10.36
EPOI-3	100YR Projected	100	2.125	12.10	29.87
EDA2	2YR Projected	2	2.444	12.30	15.41
EDA2	10YR Projected	10	7.036	12.30	56.70
EDA2	100YR Projected	100	21.169	12.25	181.74

Pre-developed Hydrographs Projected Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft^3/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
EX. BASIN 6 (IN)	2YR Projected	2	0.544	12.10	5.05	(N/A)	(N/A)
EX. BASIN 6 (OUT)	2YR Projected	2	0.000	0.00	0.00	89.42	0.542
EX. BASIN 6 (IN)	10YR Projected	10	1.268	12.10	12.93	(N/A)	(N/A)
EX. BASIN 6 (OUT)	10YR Projected	10	0.000	0.00	0.00	89.95	1.266
EX. BASIN 6 (IN)	100YR Projected	100	3.402	12.15	36.04	(N/A)	(N/A)
EX. BASIN 6 (OUT)	100YR Projected	100	0.666	24.15	0.25	91.24	3.190

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	1.33 ft^3/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	1.33 ft^3/s
Drainage Area	
SCS CN (Composite)	89.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.7 in
Runoff Volume (Pervious)	0.114 ac-ft
Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.114 ac-ft
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.57 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	2.33 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	2.33 ft³/s

Drainage Area	
SCS CN (Composite)	89.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.9 in
Runoff Volume (Pervious)	0.205 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.205 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.57 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	4.59 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	4.58 ft³/s

Drainage Area	
SCS CN (Composite)	89.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	1.2 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	10.1 in
Runoff Volume (Pervious)	0.421 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.421 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.57 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.29 hours
Area (User Defined)	43.010 acres
Computational Time Increment	0.04 hours
Time to Peak (Computed)	12.27 hours
Flow (Peak, Computed)	21.27 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.25 hours
Flow (Peak Interpolated Output)	21.15 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	43.010 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	2.732 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2.732 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.29 hours
Computational Time Increment	0.04 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	167.32 ft³/s
Unit peak time, Tp	0.19 hours
Unit receding limb, Tr	0.78 hours
Total unit time, Tb	0.97 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.29 hours
Area (User Defined)	43.010 acres

Computational Time Increment	0.04 hours
Time to Peak (Computed)	12.23 hours
Flow (Peak, Computed)	71.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.25 hours
Flow (Peak Interpolated Output)	70.41 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	43.010 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	7.648 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7.648 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.29 hours
Computational Time Increment	0.04 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	167.32 ft³/s
Unit peak time, Tp	0.19 hours
Unit receding limb, Tr	0.78 hours
Total unit time, Tb	0.97 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.29 hours
Area (User Defined)	43.010 acres

Computational Time Increment	0.04 hours
Time to Peak (Computed)	12.23 hours
Flow (Peak, Computed)	217.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	213.50 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	43.010 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	22.446 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	22.446 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.29 hours
Computational Time Increment	0.04 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-1 Pervious
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	167.32 ft³/s
Unit peak time, Tp	0.19 hours
Unit receding limb, Tr	0.78 hours
Total unit time, Tb	0.97 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.77 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.75 ft³/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	0.8 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	0.130 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.130 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.70 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.28 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	2.94 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.92 ft³/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	0.8 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.4 in
Runoff Volume (Pervious)	0.224 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.224 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.70 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.28 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.500 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	5.60 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.55 ft³/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	0.8 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	10.6 in
Runoff Volume (Pervious)	0.442 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.442 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.70 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.28 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.36 hours
Area (User Defined)	41.700 acres
Computational Time Increment	0.05 hours
Time to Peak (Computed)	12.33 hours
Flow (Peak, Computed)	15.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.30 hours
Flow (Peak Interpolated Output)	14.88 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	41.700 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.7 in
Runoff Volume (Pervious)	2.315 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2.314 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.36 hours
Computational Time Increment	0.05 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	131.34 ft³/s
Unit peak time, Tp	0.24 hours
Unit receding limb, Tr	0.96 hours
Total unit time, Tb	1.20 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.36 hours
Area (User Defined)	41.700 acres
Computational Time Increment	0.05 hours
Time to Peak (Computed)	12.28 hours
Flow (Peak, Computed)	56.44 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.30 hours
Flow (Peak Interpolated Output)	55.84 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	41.700 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.0 in
Runoff Volume (Pervious)	6.815 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6.812 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.36 hours
Computational Time Increment	0.05 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	131.34 ft³/s
Unit peak time, Tp	0.24 hours
Unit receding limb, Tr	0.96 hours
Total unit time, Tb	1.20 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.36 hours
Area (User Defined)	41.700 acres
Computational Time Increment	0.05 hours
Time to Peak (Computed)	12.28 hours
Flow (Peak, Computed)	181.69 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.25 hours
Flow (Peak Interpolated Output)	179.74 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	41.700 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	20.734 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	20.727 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.36 hours
Computational Time Increment	0.05 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-2 Pervious
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	131.34 ft³/s
Unit peak time, Tp	0.24 hours
Unit receding limb, Tr	0.96 hours
Total unit time, Tb	1.20 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	3.65 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.42 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.9 in
Runoff Volume (Pervious)	0.280 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.280 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.80 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	10.76 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	10.36 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.3 in
Runoff Volume (Pervious)	0.749 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.749 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.80 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	30.62 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	29.87 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.6 in
Runoff Volume (Pervious)	2.125 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2.125 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-3 Pervious
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.80 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	1.060 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	0.51 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	0.51 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.7 in
Runoff Volume (Pervious)	0.059 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.059 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.16 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.52 hours
Total unit time, Tb	0.65 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	1.060 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	1.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	1.83 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.0 in
Runoff Volume (Pervious)	0.173 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.173 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.16 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.52 hours
Total unit time, Tb	0.65 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	1.060 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.16 hours
Flow (Peak, Computed)	6.02 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	5.90 ft³/s

Drainage Area	
SCS CN (Composite)	59.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	6.9 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.527 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.527 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.16 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.52 hours
Total unit time, Tb	0.65 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.880 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.53 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.53 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.880 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	0.269 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.269 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.98 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.18 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.880 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.63 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.880 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	0.436 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.436 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.98 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.18 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.880 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	10.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	10.45 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.880 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	0.823 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.823 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-6 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.98 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.18 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	5.320 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	2.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	2.33 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	5.320 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.6 in
Runoff Volume (Pervious)	0.275 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.275 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	33.49 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.48 hours
Total unit time, Tb	0.60 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	5.320 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.17 hours
Flow (Peak, Computed)	9.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	9.12 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	5.320 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.9 in
Runoff Volume (Pervious)	0.832 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.832 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	33.49 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.48 hours
Total unit time, Tb	0.60 hours

Pre-developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	5.320 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.17 hours
Flow (Peak, Computed)	30.45 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	30.14 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	5.320 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	2.579 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2.579 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Pre-developed Hydrographs Projected Rainfall

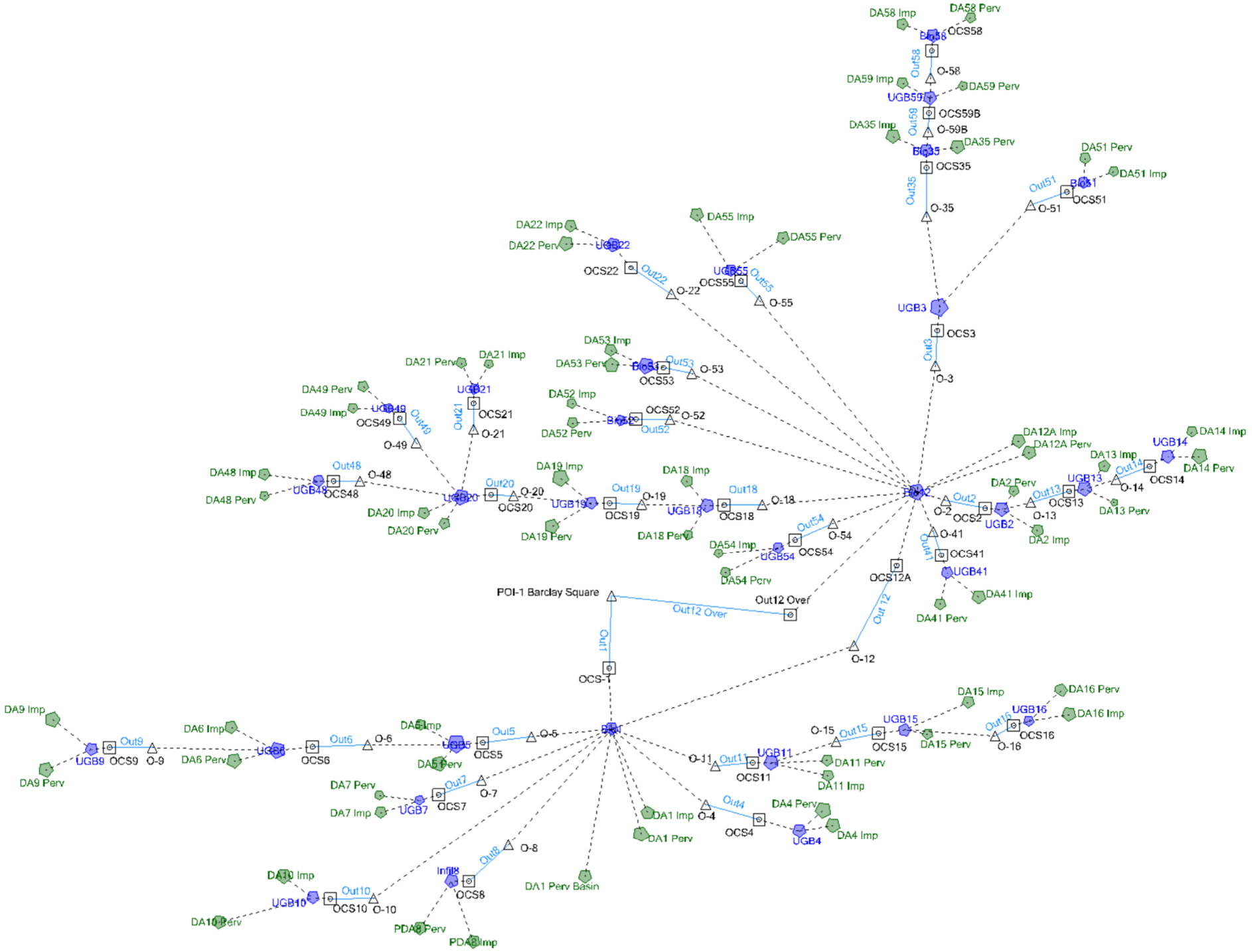
Subsection: Unit Hydrograph Summary
Label: SBruns-6 PER
Scenario: 100YR Projected

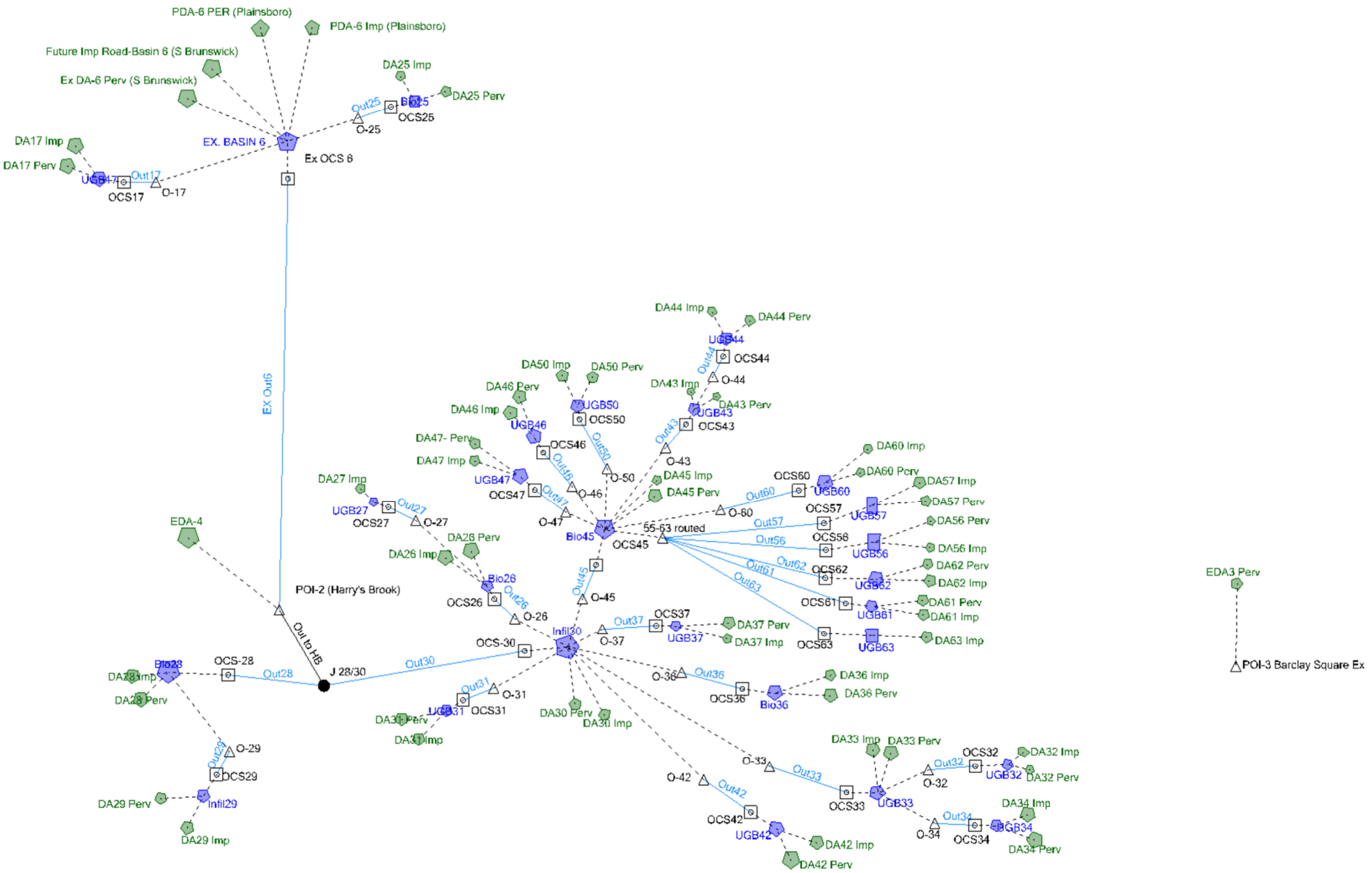
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	33.49 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.48 hours
Total unit time, Tb	0.60 hours

Appendix B

POST-DEVELOPED
CURRENT RAINFALL


DA58 Imp
DA58 Perv
OCS58
Out58
O-58
DA59 Imp
DA59 Perv
UGB59
OCS59B
Out59
O-59B
DA35 Imp
DA35 Perv
OCS35
Out35
O-35
DA51 Perv
DA51 Imp
Out51
OCS51
O-51
DA22 Imp
DA22 Perv
UGB22
OCS22
Out22
O-22
DA55 Imp
DA55 Perv
OCS55
Out55
O-55
UGB3
OCS3
Out3
O-3
DA53 Imp
DA53 Perv
Out53
OCS53
O-53
DA52 Imp
DA52 Perv
OCS52
Out52
O-52
DA21 Perv
DA21 Imp
UGB21
OCS21
Out21
O-21
DA49 Perv
DA49 Imp
OCS49
Out49
O-49
DA48 Imp
DA48 Perv
Out48
UGB48
OCS48
O-48
DA19 Imp
DA19 Perv
Out19
UGB19
OCS19
O-19
DA18 Imp
DA18 Perv
Out18
UGB18
OCS18
O-18
DA20 Imp
DA20 Perv
Out20
OCS20
O-20
DA12A Imp
DA12A Perv
DA14 Imp
UGB14
DA14 Perv
OCS14
Out14
O-14
DA13 Imp
UGB13
Out13
OCS13
O-13
DA13 Perv
DA2 Perv
Out2
O-2
OCS2
UGB2
DA2 Imp
DA54 Imp
Out54
O-54
UGB54
OCS54
DA54 Perv
O-41
Out41
OCS41
UGB41
DA41 Imp
DA41 Perv
OCS12A
POI-1 Barclay Square
Out12 Over
Out12
O-12
Out1
OCS-1
DA9 Imp
DA9 Perv
Out9
UGB9
OCS9
O-9
DA6 Imp
DA6 Perv
Out6
UGB6
OCS6
O-6
DA5 Imp
DA5 Perv
Out5
UGB5
OCS5
O-5
DA7 Perv
DA7 Imp
Out7
UGB7
OCS7
O-7
DA1 Imp
DA1 Perv
DA1 Perv Basin
O-4
Out4
OCS4
UGB4
DA4 Perv
DA4 Imp
O-11
Out11
UGB11
OCS11
DA11 Perv
DA11 Imp
O-15
Out15
UGB15
OCS15
DA15 Imp
DA15 Perv
UGB16
DA16 Perv
DA16 Imp
Out16
OCS16
O-16
DA10 Imp
DA10 Perv
Out10
UGB10
OCS10
O-10
Infill8
Out8
O-8
OCS8
PDA8 Perv
PDA8 Imp


PDA-6 PER (Plainsboro)
PDA-6 Imp (Plainsboro)
Future Imp Road-Basin 6 (S Brunswick)
Ex DA-6 Perv (S Brunswick)
DA25 Imp
DA25 Perv
Out25
Bio25
OCS25
O-25
DA17 Imp
DA17 Perv
EX. BASIN 6
Ex OCS 6
UGB17
Out17
OCS17
O-17
EX Out6
DA44 Imp
DA44 Perv
UGB44
OCS44
Out44
O-44
DA50 Imp
DA50 Perv
DA43 Imp
DA43 Perv
DA46 Perv
DA46 Imp
UGB50
OCS50
UGB43
OCS43
UGB46
OCS46
Out50
Out43
DA47- Perv
DA47 Imp
O-43
Out45
O-50
DA45 Imp
DA45 Perv
DA27 Imp
UGB47
OCS47
Out47
O-46
O-47
Out27
UGB27
OCS27
O-27
Bio45
55-63 routed
OCS45
DA60 Imp
DA60 Perv
OCS60
UGB60
Out60
O-60
DA57 Imp
DA57 Perv
OCS57
UGB57
Out57
DA56 Perv
DA56 Imp
OCS56
UGB56
Out56
DA62 Perv
DA62 Imp
Out62
OCS62
UGB62
Out61
Out63
DA61 Perv
DA61 Imp
OCS61
UGB61
DA63 Imp
OCS63
UGB63
EDA-4
DA26 Perv
DA26 Imp
Bio26
OCS26
Out26
O-26
Out45
O-45
POI-2 (Harry's Brook)
Out to HB
J 28/30
Out30
Infil30
O-37
Out37
OCS37
UGB37
DA37 Perv
DA37 Imp
OCS-30
O-36
Out36
OCS36
Bio36
DA36 Imp
DA36 Perv
Out31
O-31
UGB31
OCS31
DA30 Perv
DA30 Imp
DA31 Perv
DA31 Imp
Bio28
DA28 Imp
DA28 Perv
OCS-28
Out28
O-29
Out29
OCS29
DA29 Perv
Infil29
DA29 Imp
O-33
Out33
DA33 Imp
DA33 Perv
OCS32
DA32 Imp
Out32
O-32
UGB32
DA32 Perv
O-42
Out42
OCS33
UGB33
DA34 Imp
Out34
O-34
OCS34
UGB34
DA34 Perv
OCS42
UGB42
DA42 Imp
DA42 Perv
EDA3 Perv
POI-3 Barclay Square Ex

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
PDA-6 Imp (Plainsboro)	2YR	2	146,683.000	12.10	30.42
PDA-6 Imp (Plainsboro)	10YR	10	229,876.000	12.10	46.84
PDA-6 Imp (Plainsboro)	100YR	100	401,110.000	12.10	80.45
PDA-6 PER (Plainsboro)	2YR	2	3,551.000	12.10	0.72
PDA-6 PER (Plainsboro)	10YR	10	8,870.000	12.10	2.05
PDA-6 PER (Plainsboro)	100YR	100	22,618.000	12.10	5.40
Future Imp Road-Basin 6 (S Brunswick)	2YR	2	3,449.000	12.00	1.06
Future Imp Road-Basin 6 (S Brunswick)	10YR	10	5,405.000	12.00	1.63
Future Imp Road-Basin 6 (S Brunswick)	100YR	100	9,431.000	12.00	2.80
Ex DA-6 Perv (S Brunswick)	2YR	2	5,475.000	12.10	0.82
Ex DA-6 Perv (S Brunswick)	10YR	10	16,916.000	12.10	3.92
Ex DA-6 Perv (S Brunswick)	100YR	100	49,931.000	12.05	12.82
DA28 Perv	2YR	2	1,554.000	12.10	0.28
DA28 Perv	10YR	10	4,384.000	12.10	1.04
DA28 Perv	100YR	100	12,187.000	12.10	3.05
DA28 Imp	2YR	2	9,982.000	12.00	3.15
DA28 Imp	10YR	10	15,834.000	12.00	4.87
DA28 Imp	100YR	100	27,900.000	12.00	8.39
DA30 Imp	2YR	2	14,763.000	12.00	4.76
DA30 Imp	10YR	10	23,705.000	12.00	7.42
DA30 Imp	100YR	100	42,178.000	12.00	12.83
DA30 Perv	2YR	2	4,347.000	12.05	1.14
DA30 Perv	10YR	10	11,101.000	12.05	3.25
DA30 Perv	100YR	100	28,769.000	12.05	8.55
DA45 Imp	2YR	2	19,359.000	12.00	5.93
DA45 Imp	10YR	10	31,087.000	12.00	9.27
DA45 Imp	100YR	100	55,315.000	12.00	16.05
DA45 Perv	2YR	2	1,324.000	12.05	0.31
DA45 Perv	10YR	10	3,734.000	12.00	1.10
DA45 Perv	100YR	100	10,381.000	12.00	3.26
DA57 Imp	2YR	2	8,990.000	12.00	2.90
DA57 Imp	10YR	10	14,433.000	12.00	4.52
DA57 Imp	100YR	100	25,678.000	12.00	7.82
DA56 Imp	2YR	2	21,457.000	12.00	7.05

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA56 Imp	10YR	10	34,872.000	12.00	11.07
DA56 Imp	100YR	100	62,660.000	12.00	19.26
DA62 Perv	2YR	2	230.000	12.05	0.05
DA62 Perv	10YR	10	649.000	12.05	0.17
DA62 Perv	100YR	100	1,805.000	12.05	0.51
DA62 Imp	2YR	2	16,096.000	12.00	4.96
DA62 Imp	10YR	10	25,224.000	12.00	7.62
DA62 Imp	100YR	100	44,012.000	12.00	13.08
DA63 Imp	2YR	2	11,497.000	12.00	3.54
DA63 Imp	10YR	10	18,017.000	12.00	5.45
DA63 Imp	100YR	100	31,438.000	12.00	9.35
DA1 Perv Basin	2YR	2	778.000	12.00	0.24
DA1 Perv Basin	10YR	10	1,905.000	12.00	0.64
DA1 Perv Basin	100YR	100	4,781.000	12.00	1.62
EDA3 Perv	2YR	2	8,037.000	12.05	1.96
EDA3 Perv	10YR	10	22,072.000	12.00	6.68
EDA3 Perv	100YR	100	60,242.000	12.00	19.26
DA12A Imp	2YR	2	4,138.000	12.00	1.22
DA12A Imp	10YR	10	6,485.000	12.00	1.88
DA12A Imp	100YR	100	11,316.000	12.00	3.23
DA12A Perv	2YR	2	4,670.000	12.10	0.88
DA12A Perv	10YR	10	12,823.000	12.10	3.03
DA12A Perv	100YR	100	34,998.000	12.10	8.68
DA35 Imp	2YR	2	2,218.000	12.00	0.69
DA35 Imp	10YR	10	3,519.000	12.00	1.07
DA35 Imp	100YR	100	6,200.000	12.00	1.85
DA35 Perv	2YR	2	1,496.000	12.00	0.36
DA35 Perv	10YR	10	4,221.000	12.00	1.32
DA35 Perv	100YR	100	11,735.000	12.00	3.88
DA59 Imp	2YR	2	11,311.000	12.00	3.50
DA59 Imp	10YR	10	17,943.000	12.00	5.41
DA59 Imp	100YR	100	31,615.000	12.00	9.33
DA59 Perv	2YR	2	7,054.000	12.05	1.76
DA59 Perv	10YR	10	15,717.000	12.05	4.13
DA59 Perv	100YR	100	36,686.000	12.05	9.68
DA58 Imp	2YR	2	16,791.000	12.00	5.37
DA58 Imp	10YR	10	26,963.000	12.00	8.37
DA58 Imp	100YR	100	47,977.000	12.00	14.48
DA58 Perv	2YR	2	5,098.000	12.10	1.20
DA58 Perv	10YR	10	11,990.000	12.05	3.06
DA58 Perv	100YR	100	29,202.000	12.05	7.58
DA51 Perv	2YR	2	1,599.000	12.10	0.33
DA51 Perv	10YR	10	4,280.000	12.05	1.08
DA51 Perv	100YR	100	11,474.000	12.05	3.06
DA51 Imp	2YR	2	3,382.000	12.00	1.05

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA51 Imp	10YR	10	5,365.000	12.00	1.62
DA51 Imp	100YR	100	9,454.000	12.00	2.80
DA56 Perv	2YR	2	537.000	12.00	0.15
DA56 Perv	10YR	10	1,514.000	12.00	0.51
DA56 Perv	100YR	100	4,211.000	12.00	1.48
DA57 Perv	2YR	2	153.000	12.00	0.04
DA57 Perv	10YR	10	433.000	12.00	0.14
DA57 Perv	100YR	100	1,203.000	12.00	0.41
DA26 Imp	2YR	2	17,006.000	12.00	5.22
DA26 Imp	10YR	10	27,308.000	12.00	8.15
DA26 Imp	100YR	100	48,590.000	12.00	14.11
DA26 Perv	2YR	2	2,283.000	12.10	0.44
DA26 Perv	10YR	10	6,439.000	12.05	1.66
DA26 Perv	100YR	100	17,901.000	12.05	4.92
DA60 Imp	2YR	2	14,128.000	12.00	4.56
DA60 Imp	10YR	10	22,681.000	12.00	7.11
DA60 Imp	100YR	100	40,352.000	12.00	12.29
DA60 Perv	2YR	2	441.000	12.05	0.10
DA60 Perv	10YR	10	1,244.000	12.00	0.36
DA60 Perv	100YR	100	3,460.000	12.00	1.08
DA47 Imp	2YR	2	5,877.000	12.00	1.81
DA47 Imp	10YR	10	9,323.000	12.00	2.81
DA47 Imp	100YR	100	16,428.000	12.00	4.84
DA47- Perv	2YR	2	576.000	12.10	0.11
DA47- Perv	10YR	10	1,624.000	12.10	0.39
DA47- Perv	100YR	100	4,514.000	12.05	1.16
DA46 Imp	2YR	2	3,438.000	12.00	1.08
DA46 Imp	10YR	10	5,454.000	12.00	1.68
DA46 Imp	100YR	100	9,610.000	12.00	2.89
DA46 Perv	2YR	2	249.000	12.05	0.06
DA46 Perv	10YR	10	703.000	12.05	0.20
DA46 Perv	100YR	100	1,956.000	12.00	0.60
DA50 Perv	2YR	2	230.000	12.05	0.05
DA50 Perv	10YR	10	649.000	12.05	0.18
DA50 Perv	100YR	100	1,806.000	12.05	0.53
DA50 Imp	2YR	2	3,993.000	12.00	1.26
DA50 Imp	10YR	10	6,333.000	12.00	1.94
DA50 Imp	100YR	100	11,159.000	12.00	3.35
DA15 Imp	2YR	2	9,657.000	12.00	2.97
DA15 Imp	10YR	10	15,134.000	12.00	4.57
DA15 Imp	100YR	100	26,407.000	12.00	7.84
DA15 Perv	2YR	2	1,573.000	12.05	0.37
DA15 Perv	10YR	10	4,437.000	12.00	1.34
DA15 Perv	100YR	100	12,335.000	12.00	3.96
DA16 Perv	2YR	2	1,669.000	12.05	0.39

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA16 Perv	10YR	10	4,708.000	12.00	1.38
DA16 Perv	100YR	100	13,089.000	12.00	4.11
DA16 Imp	2YR	2	16,412.000	12.00	5.16
DA16 Imp	10YR	10	26,036.000	12.00	7.98
DA16 Imp	100YR	100	45,875.000	12.00	13.74
DA55 Imp	2YR	2	24,034.000	12.00	7.41
DA55 Imp	10YR	10	37,662.000	12.00	11.39
DA55 Imp	100YR	100	65,713.000	12.00	19.55
DA55 Perv	2YR	2	1,182.000	12.00	0.34
DA55 Perv	10YR	10	2,893.000	12.00	0.93
DA55 Perv	100YR	100	7,261.000	12.00	2.36
DA25 Imp	2YR	2	20,644.000	12.00	5.96
DA25 Imp	10YR	10	33,150.000	12.00	9.32
DA25 Imp	100YR	100	58,986.000	12.00	16.15
DA25 Perv	2YR	2	2,839.000	12.10	0.50
DA25 Perv	10YR	10	8,009.000	12.10	1.87
DA25 Perv	100YR	100	22,267.000	12.10	5.50
DA32 Imp	2YR	2	25,289.000	12.00	7.97
DA32 Imp	10YR	10	40,114.000	12.00	12.33
DA32 Imp	100YR	100	70,679.000	12.00	21.23
DA32 Perv	2YR	2	423.000	12.00	0.13
DA32 Perv	10YR	10	1,193.000	12.00	0.44
DA32 Perv	100YR	100	3,314.000	12.00	1.23
DA34 Perv	2YR	2	249.000	12.00	0.06
DA34 Perv	10YR	10	703.000	12.00	0.23
DA34 Perv	100YR	100	1,955.000	12.00	0.66
DA34 Imp	2YR	2	3,882.000	12.00	1.22
DA34 Imp	10YR	10	6,158.000	12.00	1.89
DA34 Imp	100YR	100	10,850.000	12.00	3.25
DA33 Imp	2YR	2	3,909.000	12.00	1.20
DA33 Imp	10YR	10	6,125.000	12.00	1.85
DA33 Imp	100YR	100	10,688.000	12.00	3.17
DA33 Perv	2YR	2	173.000	12.00	0.05
DA33 Perv	10YR	10	487.000	12.00	0.18
DA33 Perv	100YR	100	1,354.000	12.00	0.50
DA44 Imp	2YR	2	2,167.000	12.00	0.71
DA44 Imp	10YR	10	3,521.000	12.00	1.12
DA44 Imp	100YR	100	6,327.000	12.00	1.95
DA44 Perv	2YR	2	58.000	12.00	0.02
DA44 Perv	10YR	10	163.000	12.00	0.06
DA44 Perv	100YR	100	453.000	12.00	0.17
DA43 Imp	2YR	2	1,495.000	12.00	0.46
DA43 Imp	10YR	10	2,343.000	12.00	0.71
DA43 Imp	100YR	100	4,087.000	12.00	1.22
DA43 Perv	2YR	2	490.000	12.00	0.14

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA43 Perv	10YR	10	1,175.000	12.00	0.37
DA43 Perv	100YR	100	2,905.000	12.00	0.92
DA42 Perv	2YR	2	422.000	12.00	0.11
DA42 Perv	10YR	10	1,190.000	12.00	0.39
DA42 Perv	100YR	100	3,309.000	12.00	1.14
DA42 Imp	2YR	2	5,569.000	12.00	1.86
DA42 Imp	10YR	10	9,161.000	12.00	2.96
DA42 Imp	100YR	100	16,626.000	12.00	5.17
DA36 Imp	2YR	2	5,864.000	12.00	1.80
DA36 Imp	10YR	10	9,189.000	12.00	2.78
DA36 Imp	100YR	100	16,033.000	12.00	4.76
DA36 Perv	2YR	2	2,326.000	12.00	0.77
DA36 Perv	10YR	10	5,579.000	12.00	1.97
DA36 Perv	100YR	100	13,794.000	12.00	4.84
DA53 Imp	2YR	2	3,423.000	12.00	1.10
DA53 Imp	10YR	10	5,497.000	12.00	1.72
DA53 Imp	100YR	100	9,781.000	12.00	2.98
DA53 Perv	2YR	2	710.000	12.05	0.16
DA53 Perv	10YR	10	2,002.000	12.05	0.57
DA53 Perv	100YR	100	5,566.000	12.05	1.65
DA52 Imp	2YR	2	7,986.000	12.00	2.52
DA52 Imp	10YR	10	12,668.000	12.00	3.90
DA52 Imp	100YR	100	22,321.000	12.00	6.72
DA52 Perv	2YR	2	1,573.000	12.05	0.36
DA52 Perv	10YR	10	4,437.000	12.05	1.26
DA52 Perv	100YR	100	12,336.000	12.05	3.65
DA20 Imp	2YR	2	7,653.000	12.00	2.42
DA20 Imp	10YR	10	12,140.000	12.00	3.74
DA20 Imp	100YR	100	21,391.000	12.00	6.44
DA20 Perv	2YR	2	767.000	12.00	0.19
DA20 Perv	10YR	10	2,164.000	12.00	0.69
DA20 Perv	100YR	100	6,017.000	12.00	2.03
DA17 Imp	2YR	2	9,094.000	12.00	2.93
DA17 Imp	10YR	10	14,601.000	12.00	4.56
DA17 Imp	100YR	100	25,978.000	12.00	7.90
DA17 Perv	2YR	2	230.000	12.00	0.06
DA17 Perv	10YR	10	649.000	12.00	0.21
DA17 Perv	100YR	100	1,805.000	12.00	0.61
DA22 Imp	2YR	2	8,882.000	12.00	2.87
DA22 Imp	10YR	10	14,260.000	12.00	4.46
DA22 Imp	100YR	100	25,370.000	12.00	7.72
DA22 Perv	2YR	2	999.000	12.05	0.25
DA22 Perv	10YR	10	2,674.000	12.05	0.77
DA22 Perv	100YR	100	7,168.000	12.00	2.19
PDA8 Imp	2YR	2	4,369.000	12.00	1.34

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
PDA8 Imp	10YR	10	6,847.000	12.00	2.07
PDA8 Imp	100YR	100	11,946.000	12.00	3.55
PDA8 Perv	2YR	2	504.000	12.00	0.16
PDA8 Perv	10YR	10	1,417.000	12.00	0.53
PDA8 Perv	100YR	100	3,928.000	12.00	1.47
DA11 Imp	2YR	2	6,525.000	12.00	2.08
DA11 Imp	10YR	10	10,477.000	12.00	3.24
DA11 Imp	100YR	100	18,643.000	12.00	5.61
DA11 Perv	2YR	2	345.000	12.00	0.10
DA11 Perv	10YR	10	973.000	12.00	0.34
DA11 Perv	100YR	100	2,707.000	12.00	0.97
DA19 Perv	2YR	2	192.000	12.05	0.05
DA19 Perv	10YR	10	541.000	12.05	0.15
DA19 Perv	100YR	100	1,504.000	12.00	0.46
DA19 Imp	2YR	2	3,743.000	12.00	1.05
DA19 Imp	10YR	10	6,011.000	12.00	1.65
DA19 Imp	100YR	100	10,695.000	12.00	2.85
DA18 Imp	2YR	2	8,651.000	12.05	2.25
DA18 Imp	10YR	10	13,724.000	12.05	3.48
DA18 Imp	100YR	100	24,181.000	12.05	6.00
DA18 Perv	2YR	2	710.000	12.05	0.16
DA18 Perv	10YR	10	2,003.000	12.05	0.56
DA18 Perv	100YR	100	5,567.000	12.05	1.64
DA49 Imp	2YR	2	3,327.000	12.00	1.04
DA49 Imp	10YR	10	5,277.000	12.00	1.61
DA49 Imp	100YR	100	9,299.000	12.00	2.78
DA49 Perv	2YR	2	345.000	12.00	0.09
DA49 Perv	10YR	10	974.000	12.00	0.32
DA49 Perv	100YR	100	2,708.000	12.00	0.93
DA21 Perv	2YR	2	441.000	12.05	0.10
DA21 Perv	10YR	10	1,245.000	12.05	0.36
DA21 Perv	100YR	100	3,461.000	12.05	1.03
DA21 Imp	2YR	2	5,562.000	12.00	1.65
DA21 Imp	10YR	10	8,931.000	12.00	2.58
DA21 Imp	100YR	100	15,892.000	12.00	4.48
DA48 Imp	2YR	2	2,246.000	12.00	0.68
DA48 Imp	10YR	10	3,607.000	12.00	1.07
DA48 Imp	100YR	100	6,417.000	12.00	1.85
DA48 Perv	2YR	2	173.000	12.05	0.04
DA48 Perv	10YR	10	487.000	12.00	0.14
DA48 Perv	100YR	100	1,354.000	12.00	0.43
DA6 Perv	2YR	2	422.000	12.05	0.10
DA6 Perv	10YR	10	1,190.000	12.00	0.35
DA6 Perv	100YR	100	3,310.000	12.00	1.05
DA6 Imp	2YR	2	5,434.000	12.00	1.62

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA6 Imp	10YR	10	8,620.000	12.00	2.51
DA6 Imp	100YR	100	15,188.000	12.00	4.32
DA5 Imp	2YR	2	4,067.000	12.00	1.31
DA5 Imp	10YR	10	6,529.000	12.00	2.05
DA5 Imp	100YR	100	11,616.000	12.00	3.54
DA5 Perv	2YR	2	249.000	12.00	0.07
DA5 Perv	10YR	10	703.000	12.00	0.25
DA5 Perv	100YR	100	1,956.000	12.00	0.72
DA61 Perv	2YR	2	115.000	12.05	0.03
DA61 Perv	10YR	10	325.000	12.05	0.09
DA61 Perv	100YR	100	903.000	12.05	0.27
DA61 Imp	2YR	2	5,978.000	12.00	1.84
DA61 Imp	10YR	10	9,368.000	12.00	2.83
DA61 Imp	100YR	100	16,346.000	12.00	4.85
DA37 Perv	2YR	2	345.000	12.00	0.08
DA37 Perv	10YR	10	974.000	12.00	0.31
DA37 Perv	100YR	100	2,708.000	12.00	0.91
DA37 Imp	2YR	2	3,882.000	12.00	1.22
DA37 Imp	10YR	10	6,158.000	12.00	1.89
DA37 Imp	100YR	100	10,849.000	12.00	3.26
DA31 Perv	2YR	2	3,104.000	12.00	0.89
DA31 Perv	10YR	10	4,864.000	12.00	1.36
DA31 Perv	100YR	100	8,487.000	12.00	2.34
DA31 Imp	2YR	2	6,432.000	12.00	2.01
DA31 Imp	10YR	10	10,204.000	12.00	3.11
DA31 Imp	100YR	100	17,979.000	12.00	5.36
DA4 Imp	2YR	2	9,204.000	12.00	2.97
DA4 Imp	10YR	10	14,777.000	12.00	4.63
DA4 Imp	100YR	100	26,290.000	12.00	8.01
DA4 Perv	2YR	2	288.000	12.00	0.08
DA4 Perv	10YR	10	811.000	12.00	0.27
DA4 Perv	100YR	100	2,256.000	12.00	0.78
DA1 Imp	2YR	2	5,988.000	12.00	1.88
DA1 Imp	10YR	10	9,499.000	12.00	2.91
DA1 Imp	100YR	100	16,737.000	12.00	5.01
DA1 Perv	2YR	2	2,276.000	12.05	0.53
DA1 Perv	10YR	10	5,686.000	12.05	1.52
DA1 Perv	100YR	100	14,499.000	12.05	3.98
DA14 Imp	2YR	2	3,530.000	12.00	1.14
DA14 Imp	10YR	10	5,668.000	12.00	1.77
DA14 Imp	100YR	100	10,086.000	12.00	3.06
DA14 Perv	2YR	2	134.000	12.00	0.04
DA14 Perv	10YR	10	379.000	12.00	0.13
DA14 Perv	100YR	100	1,053.000	12.00	0.37
DA13 Imp	2YR	2	3,508.000	12.00	1.15

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA13 Imp	10YR	10	5,701.000	12.00	1.81
DA13 Imp	100YR	100	10,243.000	12.00	3.15
DA13 Perv	2YR	2	77.000	12.00	0.02
DA13 Perv	10YR	10	217.000	12.00	0.08
DA13 Perv	100YR	100	603.000	12.00	0.22
DA2 Perv	2YR	2	1,901.000	12.05	0.46
DA2 Perv	10YR	10	5,220.000	12.05	1.50
DA2 Perv	100YR	100	14,248.000	12.00	4.33
DA2 Imp	2YR	2	9,317.000	12.00	2.94
DA2 Imp	10YR	10	14,779.000	12.00	4.54
DA2 Imp	100YR	100	26,039.000	12.00	7.83
DA9 Imp	2YR	2	5,242.000	12.00	1.69
DA9 Imp	10YR	10	8,417.000	12.00	2.63
DA9 Imp	100YR	100	14,976.000	12.00	4.55
DA9 Perv	2YR	2	288.000	12.05	0.07
DA9 Perv	10YR	10	812.000	12.00	0.24
DA9 Perv	100YR	100	2,257.000	12.00	0.72
DA10 Perv	2YR	2	460.000	12.00	0.13
DA10 Perv	10YR	10	1,298.000	12.00	0.46
DA10 Perv	100YR	100	3,609.000	12.00	1.31
DA10 Imp	2YR	2	9,082.000	12.00	2.80
DA10 Imp	10YR	10	14,233.000	12.00	4.30
DA10 Imp	100YR	100	24,836.000	12.00	7.38
DA54 Imp	2YR	2	3,316.000	12.00	1.07
DA54 Imp	10YR	10	5,325.000	12.00	1.66
DA54 Imp	100YR	100	9,474.000	12.00	2.88
DA54 Perv	2YR	2	192.000	12.00	0.05
DA54 Perv	10YR	10	541.000	12.00	0.18
DA54 Perv	100YR	100	1,504.000	12.00	0.52
DA41 Perv	2YR	2	39.000	12.00	0.01
DA41 Perv	10YR	10	109.000	12.00	0.04
DA41 Perv	100YR	100	302.000	12.00	0.11
DA41 Imp	2YR	2	1,819.000	12.00	0.59
DA41 Imp	10YR	10	2,921.000	12.00	0.92
DA41 Imp	100YR	100	5,197.000	12.00	1.58
DA27 Imp	2YR	2	8,855.000	12.00	2.73
DA27 Imp	10YR	10	13,875.000	12.00	4.20
DA27 Imp	100YR	100	24,210.000	12.00	7.20
DA29 Perv	2YR	2	978.000	12.05	0.23
DA29 Perv	10YR	10	2,760.000	12.05	0.79
DA29 Perv	100YR	100	7,672.000	12.00	2.31
DA29 Imp	2YR	2	11,018.000	12.00	3.55
DA29 Imp	10YR	10	17,691.000	12.00	5.53
DA29 Imp	100YR	100	31,479.000	12.00	9.57
DA7 Perv	2YR	2	403.000	12.05	0.09

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA7 Perv	10YR	10	1,136.000	12.05	0.32
DA7 Perv	100YR	100	3,159.000	12.05	0.93
DA7 Imp	2YR	2	4,436.000	12.00	1.38
DA7 Imp	10YR	10	7,037.000	12.00	2.14
DA7 Imp	100YR	100	12,400.000	12.00	3.69
EDA-4	2YR	2	2,353.000	12.00	0.61
EDA-4	10YR	10	6,298.000	12.00	1.99
EDA-4	100YR	100	16,887.000	12.00	5.56

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
POI-2 (Harry's Brook)	2YR	2	175,795.000	14.40	4.44
POI-2 (Harry's Brook)	10YR	10	460,954.000	12.50	27.56
POI-2 (Harry's Brook)	100YR	100	1,109,735.000	12.80	48.49
J 28/30	2YR	2	140,560.000	14.35	4.16
J 28/30	10YR	10	303,578.000	12.85	18.00
J 28/30	100YR	100	667,121.000	12.30	69.34
POI-1 Barclay Square	2YR	2	149,615.000	13.45	6.31
POI-1 Barclay Square	10YR	10	327,785.000	12.30	34.97
POI-1 Barclay Square	100YR	100	738,076.000	12.10	115.79
POI-3 Barclay Square Ex	2YR	2	8,037.000	12.05	1.96
POI-3 Barclay Square Ex	10YR	10	22,072.000	12.00	6.68
POI-3 Barclay Square Ex	100YR	100	60,242.000	12.00	19.26

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
EX. BASIN 6 (IN)	2YR	2	163,942.000	12.10	32.33	(N/A)	(N/A)
EX. BASIN 6 (OUT)	2YR	2	32,896.000	24.05	0.39	91.39	150,742.000
EX. BASIN 6 (IN)	10YR	10	287,860.000	12.10	53.56	(N/A)	(N/A)
EX. BASIN 6 (OUT)	10YR	10	148,308.000	14.55	3.79	91.92	188,433.000

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
EX. BASIN 6 (IN)	100YR	100	562,337.000	12.10	103.02	(N/A)	(N/A)
EX. BASIN 6 (OUT)	100YR	100	421,575.000	12.85	21.64	93.27	291,985.000
Infil30 (IN)	2YR	2	150,073.000	12.00	14.12	(N/A)	(N/A)
Infil30 (OUT)	2YR	2	120,050.000	14.60	3.74	93.27	57,304.000
Infil30 (IN)	10YR	10	296,933.000	12.00	31.05	(N/A)	(N/A)
Infil30 (OUT)	10YR	10	265,930.000	12.95	15.78	94.01	82,781.000
Infil30 (IN)	100YR	100	622,606.000	12.05	87.27	(N/A)	(N/A)
Infil30 (OUT)	100YR	100	590,904.000	12.35	60.06	95.29	129,986.000
Bio28 (IN)	2YR	2	22,659.000	12.00	6.28	(N/A)	(N/A)
Bio28 (OUT)	2YR	2	20,510.000	12.15	2.98	92.50	6,920.000
Bio28 (IN)	10YR	10	39,796.000	12.00	10.73	(N/A)	(N/A)
Bio28 (OUT)	10YR	10	37,648.000	12.15	5.53	93.03	9,738.000
Bio28 (IN)	100YR	100	78,365.000	12.00	20.69	(N/A)	(N/A)
Bio28 (OUT)	100YR	100	76,217.000	12.15	11.44	94.03	15,557.000
Bio45 (IN)	2YR	2	72,240.000	12.00	10.68	(N/A)	(N/A)
Bio45 (OUT)	2YR	2	64,282.000	13.70	2.03	98.31	24,682.000
Bio45 (IN)	10YR	10	144,812.000	12.00	20.63	(N/A)	(N/A)
Bio45 (OUT)	10YR	10	136,769.000	12.55	8.48	99.12	37,337.000
Bio45 (IN)	100YR	100	306,011.000	12.00	45.10	(N/A)	(N/A)
Bio45 (OUT)	100YR	100	297,899.000	12.15	31.84	99.98	51,844.000
UGB57 (IN)	2YR	2	9,144.000	12.00	2.94	(N/A)	(N/A)
UGB57 (OUT)	2YR	2	0.000	0.00	0.00	112.27	9,149.000
UGB57 (IN)	10YR	10	14,866.000	12.00	4.66	(N/A)	(N/A)
UGB57 (OUT)	10YR	10	3,498.000	17.50	0.09	112.61	12,455.000
UGB57 (IN)	100YR	100	26,882.000	12.00	8.23	(N/A)	(N/A)
UGB57 (OUT)	100YR	100	15,513.000	12.65	0.95	113.06	16,567.000
UGB56 (IN)	2YR	2	21,993.000	12.00	7.19	(N/A)	(N/A)
UGB56 (OUT)	2YR	2	8,432.000	14.95	0.23	111.15	16,272.000
UGB56 (IN)	10YR	10	36,386.000	12.00	11.59	(N/A)	(N/A)
UGB56 (OUT)	10YR	10	22,824.000	12.90	1.05	111.50	22,405.000
UGB56 (IN)	100YR	100	66,871.000	12.00	20.74	(N/A)	(N/A)
UGB56 (OUT)	100YR	100	53,308.000	12.25	4.30	112.27	35,012.000
UGB62 (IN)	2YR	2	16,326.000	12.00	4.99	(N/A)	(N/A)
UGB62 (OUT)	2YR	2	11,257.000	12.85	0.49	109.10	10,183.000
UGB62 (IN)	10YR	10	25,873.000	12.00	7.76	(N/A)	(N/A)

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB62 (OUT)	10YR	10	20,779.000	12.45	1.16	109.48	14,586.000
UGB62 (IN)	100YR	100	45,817.000	12.00	13.52	(N/A)	(N/A)
UGB62 (OUT)	100YR	100	40,690.000	12.40	2.20	110.27	23,120.000
UGB63 (IN)	2YR	2	11,497.000	12.00	3.54	(N/A)	(N/A)
UGB63 (OUT)	2YR	2	7,136.000	12.35	0.63	105.39	6,612.000
UGB63 (IN)	10YR	10	18,017.000	12.00	5.45	(N/A)	(N/A)
UGB63 (OUT)	10YR	10	13,656.000	12.10	1.80	105.80	8,895.000
UGB63 (IN)	100YR	100	31,438.000	12.00	9.35	(N/A)	(N/A)
UGB63 (OUT)	100YR	100	27,076.000	12.05	5.02	106.35	11,697.000
Bio1 (IN)	2YR	2	160,728.000	12.20	18.92	(N/A)	(N/A)
Bio1 (OUT)	2YR	2	149,615.000	13.45	6.31	83.83	42,010.000
Bio1 (IN)	10YR	10	343,555.000	12.10	50.33	(N/A)	(N/A)
Bio1 (OUT)	10YR	10	327,785.000	12.30	34.97	86.14	60,884.000
Bio1 (IN)	100YR	100	753,775.000	12.05	114.51	(N/A)	(N/A)
Bio1 (OUT)	100YR	100	735,881.000	12.10	110.55	87.43	72,528.000
Bio12 (IN)	2YR	2	109,965.000	12.05	13.98	(N/A)	(N/A)
Bio12 (OUT)	2YR	2	96,397.000	12.20	10.99	87.48	13,090.000
Bio12 (IN)	10YR	10	235,981.000	12.05	32.74	(N/A)	(N/A)
Bio12 (OUT)	10YR	10	218,458.000	12.10	30.30	88.07	17,034.000
Bio12 (IN)	100YR	100	514,497.000	12.05	80.02	(N/A)	(N/A)
Bio12 (OUT)	100YR	100	495,711.000	12.10	76.91	88.89	23,125.000
Bio35 (IN)	2YR	2	29,095.000	12.00	1.05	(N/A)	(N/A)
Bio35 (OUT)	2YR	2	20,191.000	18.25	0.38	104.88	7,215.000
Bio35 (IN)	10YR	10	70,960.000	12.75	2.91	(N/A)	(N/A)
Bio35 (OUT)	10YR	10	59,426.000	15.55	1.09	105.89	13,428.000
Bio35 (IN)	100YR	100	151,101.000	12.05	12.33	(N/A)	(N/A)
Bio35 (OUT)	100YR	100	138,840.000	12.70	8.83	106.64	19,024.000
UGB59 (IN)	2YR	2	34,841.000	12.00	5.26	(N/A)	(N/A)
UGB59 (OUT)	2YR	2	25,381.000	14.95	0.69	105.05	17,807.000
UGB59 (IN)	10YR	10	67,195.000	12.00	10.45	(N/A)	(N/A)
UGB59 (OUT)	10YR	10	63,221.000	12.80	2.59	105.91	31,511.000
UGB59 (IN)	100YR	100	140,057.000	12.00	23.13	(N/A)	(N/A)
UGB59 (OUT)	100YR	100	133,167.000	12.50	8.81	106.73	44,625.000
Bio58 (IN)	2YR	2	21,892.000	12.00	6.29	(N/A)	(N/A)
Bio58 (OUT)	2YR	2	16,477.000	12.65	0.94	107.88	11,297.000
Bio58 (IN)	10YR	10	38,955.000	12.00	10.87	(N/A)	(N/A)

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
Bio58 (OUT)	10YR	10	33,535.000	12.40	2.54	108.57	17,702.000
Bio58 (IN)	100YR	100	77,182.000	12.00	20.85	(N/A)	(N/A)
Bio58 (OUT)	100YR	100	71,756.000	12.20	8.52	109.52	27,580.000
Bio51 (IN)	2YR	2	4,981.000	12.00	1.28	(N/A)	(N/A)
Bio51 (OUT)	2YR	2	1,942.000	13.75	0.10	103.04	3,192.000
Bio51 (IN)	10YR	10	9,645.000	12.00	2.48	(N/A)	(N/A)
Bio51 (OUT)	10YR	10	6,606.000	12.30	0.83	103.32	4,167.000
Bio51 (IN)	100YR	100	20,928.000	12.00	5.34	(N/A)	(N/A)
Bio51 (OUT)	100YR	100	17,889.000	12.15	3.45	103.83	6,150.000
Bio26 (IN)	2YR	2	23,243.000	12.00	6.57	(N/A)	(N/A)
Bio26 (OUT)	2YR	2	14,721.000	12.35	1.87	98.52	9,067.000
Bio26 (IN)	10YR	10	42,508.000	12.00	12.40	(N/A)	(N/A)
Bio26 (OUT)	10YR	10	33,166.000	12.15	6.10	99.05	13,476.000
Bio26 (IN)	100YR	100	85,404.000	12.00	24.10	(N/A)	(N/A)
Bio26 (OUT)	100YR	100	75,042.000	12.10	14.46	99.75	19,905.000
Bio25 (IN)	2YR	2	23,484.000	12.00	6.23	(N/A)	(N/A)
Bio25 (OUT)	2YR	2	2,792.000	24.00	0.05	101.53	22,764.000
Bio25 (IN)	10YR	10	41,159.000	12.00	10.65	(N/A)	(N/A)
Bio25 (OUT)	10YR	10	18,874.000	16.70	0.34	102.07	31,669.000
Bio25 (IN)	100YR	100	81,253.000	12.00	20.42	(N/A)	(N/A)
Bio25 (OUT)	100YR	100	58,796.000	12.60	3.68	102.83	45,119.000
UGB50 (IN)	2YR	2	4,223.000	12.00	1.30	(N/A)	(N/A)
UGB50 (OUT)	2YR	2	3,461.000	12.00	1.16	103.43	1,074.000
UGB50 (IN)	10YR	10	6,983.000	12.00	2.11	(N/A)	(N/A)
UGB50 (OUT)	10YR	10	6,222.000	12.00	1.94	103.64	1,179.000
UGB50 (IN)	100YR	100	12,965.000	12.00	3.84	(N/A)	(N/A)
UGB50 (OUT)	100YR	100	12,204.000	12.00	3.39	104.10	1,389.000
UGB46 (IN)	2YR	2	3,688.000	12.00	1.14	(N/A)	(N/A)
UGB46 (OUT)	2YR	2	3,156.000	12.00	0.98	104.95	838.000
UGB46 (IN)	10YR	10	6,157.000	12.00	1.88	(N/A)	(N/A)
UGB46 (OUT)	10YR	10	5,626.000	12.00	1.68	105.18	952.000
UGB46 (IN)	100YR	100	11,565.000	12.00	3.48	(N/A)	(N/A)
UGB46 (OUT)	100YR	100	11,034.000	12.00	2.69	105.81	1,259.000
UGB47 (IN)	2YR	2	6,453.000	12.00	1.88	(N/A)	(N/A)
UGB47 (OUT)	2YR	2	5,435.000	12.05	1.10	109.49	2,180.000
UGB47 (IN)	10YR	10	10,947.000	12.00	3.11	(N/A)	(N/A)

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB47 (OUT)	10YR	10	9,930.000	12.05	1.92	109.78	2,693.000
UGB47 (IN)	100YR	100	20,942.000	12.00	5.79	(N/A)	(N/A)
UGB47 (OUT)	100YR	100	19,924.000	12.10	3.07	110.62	4,082.000
UGB60 (IN)	2YR	2	14,569.000	12.00	4.66	(N/A)	(N/A)
UGB60 (OUT)	2YR	2	7,134.000	13.25	0.31	112.31	9,489.000
UGB60 (IN)	10YR	10	23,925.000	12.00	7.47	(N/A)	(N/A)
UGB60 (OUT)	10YR	10	16,491.000	12.35	1.35	112.68	13,111.000
UGB60 (IN)	100YR	100	43,811.000	12.00	13.38	(N/A)	(N/A)
UGB60 (OUT)	100YR	100	36,377.000	12.10	4.50	113.41	19,592.000
UGB15 (IN)	2YR	2	26,230.000	12.00	4.23	(N/A)	(N/A)
UGB15 (OUT)	2YR	2	24,056.000	12.25	2.01	93.15	5,234.000
UGB15 (IN)	10YR	10	47,233.000	12.00	8.07	(N/A)	(N/A)
UGB15 (OUT)	10YR	10	45,058.000	12.15	4.59	93.54	7,468.000
UGB15 (IN)	100YR	100	94,624.000	12.00	17.30	(N/A)	(N/A)
UGB15 (OUT)	100YR	100	92,452.000	12.10	11.55	94.32	11,566.000
UGB16 (IN)	2YR	2	18,083.000	12.00	5.52	(N/A)	(N/A)
UGB16 (OUT)	2YR	2	14,999.000	12.25	1.22	95.29	8,586.000
UGB16 (IN)	10YR	10	30,744.000	12.00	9.36	(N/A)	(N/A)
UGB16 (OUT)	10YR	10	27,662.000	12.20	2.72	95.77	12,326.000
UGB16 (IN)	100YR	100	58,964.000	12.00	17.85	(N/A)	(N/A)
UGB16 (OUT)	100YR	100	55,882.000	12.10	6.86	96.73	18,940.000
UGB55 (IN)	2YR	2	25,216.000	12.00	7.75	(N/A)	(N/A)
UGB55 (OUT)	2YR	2	18,924.000	12.25	1.49	107.41	13,549.000
UGB55 (IN)	10YR	10	40,555.000	12.00	12.32	(N/A)	(N/A)
UGB55 (OUT)	10YR	10	34,262.000	12.10	4.41	107.83	18,223.000
UGB55 (IN)	100YR	100	72,975.000	12.00	21.92	(N/A)	(N/A)
UGB55 (OUT)	100YR	100	66,682.000	12.05	12.03	108.45	24,447.000
UGB32 (IN)	2YR	2	25,712.000	12.00	8.10	(N/A)	(N/A)
UGB32 (OUT)	2YR	2	21,444.000	12.05	3.01	111.26	10,813.000
UGB32 (IN)	10YR	10	41,307.000	12.00	12.77	(N/A)	(N/A)

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB32 (OUT)	10YR	10	37,040.000	12.05	5.71	111.67	14,094.000
UGB32 (IN)	100YR	100	73,993.000	12.00	22.46	(N/A)	(N/A)
UGB32 (OUT)	100YR	100	69,725.000	12.05	12.15	112.44	19,567.000
UGB33 (IN)	2YR	2	28,863.000	12.00	4.20	(N/A)	(N/A)
UGB33 (OUT)	2YR	2	28,252.000	12.15	3.63	107.26	2,247.000
UGB33 (IN)	10YR	10	49,720.000	12.00	7.85	(N/A)	(N/A)
UGB33 (OUT)	10YR	10	49,108.000	12.10	7.00	107.74	3,123.000
UGB33 (IN)	100YR	100	93,779.000	12.00	16.09	(N/A)	(N/A)
UGB33 (OUT)	100YR	100	93,168.000	12.05	14.95	108.63	4,566.000
UGB34 (IN)	2YR	2	4,131.000	12.00	1.28	(N/A)	(N/A)
UGB34 (OUT)	2YR	2	3,337.000	12.15	0.35	110.36	1,937.000
UGB34 (IN)	10YR	10	6,861.000	12.00	2.12	(N/A)	(N/A)
UGB34 (OUT)	10YR	10	6,067.000	12.10	0.79	110.60	2,656.000
UGB34 (IN)	100YR	100	12,805.000	12.00	3.92	(N/A)	(N/A)
UGB34 (OUT)	100YR	100	12,012.000	12.10	1.47	111.10	3,981.000
UGB43 (IN)	2YR	2	1,985.000	12.00	0.60	(N/A)	(N/A)
UGB43 (OUT)	2YR	2	0.000	0.00	0.00	98.83	1,021.000
UGB43 (IN)	10YR	10	4,520.000	12.00	1.13	(N/A)	(N/A)
UGB43 (OUT)	10YR	10	1,821.000	12.55	0.31	99.21	1,689.000
UGB43 (IN)	100YR	100	10,633.000	12.00	3.31	(N/A)	(N/A)
UGB43 (OUT)	100YR	100	7,502.000	12.10	2.11	99.79	2,698.000
UGB44 (IN)	2YR	2	2,225.000	12.00	0.73	(N/A)	(N/A)
UGB44 (OUT)	2YR	2	0.000	0.00	0.00	101.96	1,251.000
UGB44 (IN)	10YR	10	3,684.000	12.00	1.18	(N/A)	(N/A)
UGB44 (OUT)	10YR	10	1,002.000	12.25	0.22	102.15	1,583.000
UGB44 (IN)	100YR	100	6,780.000	12.00	2.11	(N/A)	(N/A)
UGB44 (OUT)	100YR	100	3,641.000	12.05	1.24	102.55	2,289.000
UGB42 (IN)	2YR	2	5,991.000	12.00	1.97	(N/A)	(N/A)
UGB42 (OUT)	2YR	2	4,763.000	12.05	1.09	96.61	2,223.000
UGB42 (IN)	10YR	10	10,351.000	12.00	3.35	(N/A)	(N/A)

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB42 (OUT)	10YR	10	9,124.000	12.05	2.15	96.97	2,789.000
UGB42 (IN)	100YR	100	19,935.000	12.00	6.31	(N/A)	(N/A)
UGB42 (OUT)	100YR	100	18,708.000	12.05	4.49	97.58	3,694.000
Bio36 (IN)	2YR	2	8,190.000	12.00	2.58	(N/A)	(N/A)
Bio36 (OUT)	2YR	2	7,530.000	12.05	1.81	99.46	1,492.000
Bio36 (IN)	10YR	10	14,768.000	12.00	4.74	(N/A)	(N/A)
Bio36 (OUT)	10YR	10	14,108.000	12.05	3.47	99.85	2,027.000
Bio36 (IN)	100YR	100	29,827.000	12.00	9.61	(N/A)	(N/A)
Bio36 (OUT)	100YR	100	29,167.000	12.00	7.20	100.54	3,147.000
Bio53 (IN)	2YR	2	4,133.000	12.00	1.24	(N/A)	(N/A)
Bio53 (OUT)	2YR	2	3,138.000	12.05	0.68	105.81	1,542.000
Bio53 (IN)	10YR	10	7,499.000	12.00	2.25	(N/A)	(N/A)
Bio53 (OUT)	10YR	10	6,503.000	12.05	1.45	106.06	1,962.000
Bio53 (IN)	100YR	100	15,346.000	12.00	4.57	(N/A)	(N/A)
Bio53 (OUT)	100YR	100	14,351.000	12.05	3.12	106.48	2,775.000
Bio52 (IN)	2YR	2	9,559.000	12.00	2.81	(N/A)	(N/A)
Bio52 (OUT)	2YR	2	7,197.000	12.05	1.71	101.51	2,322.000
Bio52 (IN)	10YR	10	17,106.000	12.00	5.05	(N/A)	(N/A)
Bio52 (OUT)	10YR	10	14,588.000	12.05	3.28	101.89	3,148.000
Bio52 (IN)	100YR	100	34,657.000	12.00	10.19	(N/A)	(N/A)
Bio52 (OUT)	100YR	100	31,964.000	12.05	6.97	102.58	4,915.000
UGB20 (IN)	2YR	2	19,354.000	12.00	5.44	(N/A)	(N/A)
UGB20 (OUT)	2YR	2	17,731.000	12.20	2.30	98.83	6,532.000
UGB20 (IN)	10YR	10	33,665.000	12.00	9.52	(N/A)	(N/A)
UGB20 (OUT)	10YR	10	32,041.000	12.10	6.42	99.25	8,268.000
UGB20 (IN)	100YR	100	65,378.000	12.00	18.54	(N/A)	(N/A)
UGB20 (OUT)	100YR	100	63,753.000	12.05	15.70	99.82	10,352.000
UGB17 (IN)	2YR	2	9,324.000	12.00	2.99	(N/A)	(N/A)
UGB17 (OUT)	2YR	2	1,993.000	17.30	0.06	111.54	7,746.000
UGB17 (IN)	10YR	10	15,250.000	12.00	4.77	(N/A)	(N/A)
UGB17 (OUT)	10YR	10	7,919.000	13.05	0.38	111.75	9,778.000
UGB17 (IN)	100YR	100	27,783.000	12.00	8.51	(N/A)	(N/A)
UGB17 (OUT)	100YR	100	20,453.000	12.20	2.02	112.27	14,641.000
UGB22 (IN)	2YR	2	9,881.000	12.00	3.10	(N/A)	(N/A)
UGB22 (OUT)	2YR	2	3,431.000	14.25	0.14	108.06	6,999.000

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB22 (IN)	10YR	10	16,933.000	12.00	5.24	(N/A)	(N/A)
UGB22 (OUT)	10YR	10	10,484.000	12.45	0.87	108.33	9,232.000
UGB22 (IN)	100YR	100	32,538.000	12.00	9.91	(N/A)	(N/A)
UGB22 (OUT)	100YR	100	26,089.000	12.10	3.89	108.90	13,967.000
Infil8 (IN)	2YR	2	4,873.000	12.00	1.51	(N/A)	(N/A)
Infil8 (OUT)	2YR	2	1,855.000	12.50	0.17	110.00	2,229.000
Infil8 (IN)	10YR	10	8,263.000	12.00	2.59	(N/A)	(N/A)
Infil8 (OUT)	10YR	10	4,836.000	12.20	0.60	110.23	3,346.000
Infil8 (IN)	100YR	100	15,874.000	12.00	5.02	(N/A)	(N/A)
Infil8 (OUT)	100YR	100	12,011.000	12.05	1.76	110.63	5,401.000
UGB11 (IN)	2YR	2	30,925.000	12.00	3.66	(N/A)	(N/A)
UGB11 (OUT)	2YR	2	27,664.000	12.00	3.40	85.48	875.000
UGB11 (IN)	10YR	10	56,509.000	12.00	7.24	(N/A)	(N/A)
UGB11 (OUT)	10YR	10	52,936.000	12.00	6.95	85.69	1,075.000
UGB11 (IN)	100YR	100	113,802.000	12.00	15.96	(N/A)	(N/A)
UGB11 (OUT)	100YR	100	109,915.000	12.00	16.71	86.30	1,566.000
UGB19 (IN)	2YR	2	21,665.000	12.05	2.99	(N/A)	(N/A)
UGB19 (OUT)	2YR	2	19,142.000	12.25	2.76	96.52	1,681.000
UGB19 (Reverse)	2YR	2	0.000	26.25	0.00	(N/A)	(N/A)
UGB19 (IN)	10YR	10	38,594.000	12.05	7.89	(N/A)	(N/A)
UGB19 (OUT)	10YR	10	35,392.000	12.10	7.37	97.08	2,192.000
UGB19 (Reverse)	10YR	10	0.000	26.75	0.00	(N/A)	(N/A)
UGB19 (IN)	100YR	100	75,952.000	12.05	18.32	(N/A)	(N/A)
UGB19 (OUT)	100YR	100	72,430.000	12.05	17.61	97.80	2,756.000
UGB19 (Reverse)	100YR	100	0.000	27.25	0.00	(N/A)	(N/A)
UGB18 (IN)	2YR	2	28,502.000	12.05	4.73	(N/A)	(N/A)
UGB18 (Reverse)	2YR	2	0.000	26.25	0.00	(N/A)	(N/A)
UGB18 (OUT)	2YR	2	27,541.000	12.15	4.03	96.46	2,139.000
UGB18 (IN)	10YR	10	51,117.000	12.05	10.61	(N/A)	(N/A)
UGB18 (Reverse)	10YR	10	0.000	26.75	0.00	(N/A)	(N/A)

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB18 (OUT)	10YR	10	50,189.000	12.10	10.48	96.95	2,577.000
UGB18 (IN)	100YR	100	102,177.000	12.05	25.02	(N/A)	(N/A)
UGB18 (Reverse)	100YR	100	0.000	27.25	0.00	(N/A)	(N/A)
UGB18 (OUT)	100YR	100	101,231.000	12.05	24.39	97.58	3,045.000
UGB49 (IN)	2YR	2	3,672.000	12.00	1.13	(N/A)	(N/A)
UGB49 (OUT)	2YR	2	3,332.000	12.00	0.97	104.16	597.000
UGB49 (IN)	10YR	10	6,251.000	12.00	1.93	(N/A)	(N/A)
UGB49 (OUT)	10YR	10	5,911.000	12.00	1.76	104.36	695.000
UGB49 (IN)	100YR	100	12,006.000	12.00	3.71	(N/A)	(N/A)
UGB49 (OUT)	100YR	100	11,667.000	12.00	3.47	104.71	866.000
UGB21 (IN)	2YR	2	6,003.000	12.00	1.74	(N/A)	(N/A)
UGB21 (OUT)	2YR	2	5,405.000	12.05	1.48	100.00	1,054.000
UGB21 (IN)	10YR	10	10,176.000	12.00	2.92	(N/A)	(N/A)
UGB21 (OUT)	10YR	10	9,578.000	12.05	2.57	100.34	1,254.000
UGB21 (IN)	100YR	100	19,353.000	12.00	5.50	(N/A)	(N/A)
UGB21 (OUT)	100YR	100	18,755.000	12.05	5.02	100.96	1,597.000
UGB48 (IN)	2YR	2	2,419.000	12.00	0.72	(N/A)	(N/A)
UGB48 (OUT)	2YR	2	2,196.000	12.05	0.62	102.11	389.000
UGB48 (IN)	10YR	10	4,094.000	12.00	1.21	(N/A)	(N/A)
UGB48 (OUT)	10YR	10	3,871.000	12.05	1.07	102.25	447.000
UGB48 (IN)	100YR	100	7,771.000	12.00	2.28	(N/A)	(N/A)
UGB48 (OUT)	100YR	100	7,549.000	12.05	2.03	102.48	544.000
UGB6 (IN)	2YR	2	10,529.000	12.00	3.09	(N/A)	(N/A)
UGB6 (OUT)	2YR	2	9,376.000	12.10	1.78	96.65	2,091.000
UGB6 (IN)	10YR	10	18,181.000	12.00	5.27	(N/A)	(N/A)
UGB6 (OUT)	10YR	10	16,600.000	12.05	4.23	97.45	2,605.000
UGB6 (IN)	100YR	100	34,873.000	12.00	10.02	(N/A)	(N/A)
UGB6 (OUT)	100YR	100	29,873.000	11.90	4.75	97.50	2,638.000
UGB5 (IN)	2YR	2	13,695.000	12.00	2.96	(N/A)	(N/A)
UGB5 (OUT)	2YR	2	12,068.000	12.15	1.88	96.59	2,046.000
UGB5 (IN)	10YR	10	23,835.000	12.00	5.75	(N/A)	(N/A)
UGB5 (OUT)	10YR	10	22,022.000	12.05	5.33	97.29	2,503.000
UGB5 (IN)	100YR	100	43,449.000	11.95	7.55	(N/A)	(N/A)

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB5 (OUT)	100YR	100	41,590.000	12.00	7.36	97.45	2,604.000
UGB61 (IN)	2YR	2	6,093.000	12.00	1.86	(N/A)	(N/A)
UGB61 (OUT)	2YR	2	5,544.000	12.05	0.85	108.89	1,999.000
UGB61 (IN)	10YR	10	9,693.000	12.00	2.91	(N/A)	(N/A)
UGB61 (OUT)	10YR	10	9,144.000	12.05	1.29	109.18	2,651.000
UGB61 (IN)	100YR	100	17,249.000	12.00	5.10	(N/A)	(N/A)
UGB61 (OUT)	100YR	100	16,700.000	12.10	1.90	109.86	4,144.000
UGB37 (IN)	2YR	2	4,227.000	12.00	1.31	(N/A)	(N/A)
UGB37 (OUT)	2YR	2	2,815.000	12.10	0.52	104.80	1,982.000
UGB37 (IN)	10YR	10	7,131.000	12.00	2.20	(N/A)	(N/A)
UGB37 (OUT)	10YR	10	5,720.000	12.05	1.34	105.08	2,501.000
UGB37 (IN)	100YR	100	13,557.000	12.00	4.17	(N/A)	(N/A)
UGB37 (OUT)	100YR	100	12,145.000	12.05	2.84	105.46	3,195.000
UGB31 (IN)	2YR	2	9,536.000	12.00	2.90	(N/A)	(N/A)
UGB31 (OUT)	2YR	2	8,599.000	12.10	1.42	93.95	3,145.000
UGB31 (IN)	10YR	10	15,068.000	12.00	4.47	(N/A)	(N/A)
UGB31 (OUT)	10YR	10	14,130.000	12.10	2.15	94.27	4,061.000
UGB31 (IN)	100YR	100	26,466.000	12.00	7.70	(N/A)	(N/A)
UGB31 (OUT)	100YR	100	25,529.000	12.10	3.20	95.08	6,156.000
UGB4 (IN)	2YR	2	9,492.000	12.00	3.05	(N/A)	(N/A)
UGB4 (OUT)	2YR	2	3,787.000	12.20	0.71	86.47	3,989.000
UGB4 (IN)	10YR	10	15,588.000	12.00	4.90	(N/A)	(N/A)
UGB4 (OUT)	10YR	10	9,314.000	12.05	2.31	86.94	5,594.000
UGB4 (IN)	100YR	100	28,546.000	12.00	8.79	(N/A)	(N/A)
UGB4 (OUT)	100YR	100	21,789.000	12.05	5.19	87.54	7,558.000
UGB2 (IN)	2YR	2	17,655.000	12.00	5.02	(N/A)	(N/A)
UGB2 (OUT)	2YR	2	15,446.000	12.05	3.70	87.02	4,092.000
UGB2 (IN)	10YR	10	31,152.000	12.00	8.62	(N/A)	(N/A)
UGB2 (OUT)	10YR	10	28,943.000	12.00	7.31	87.28	4,572.000
UGB2 (IN)	100YR	100	61,459.000	12.00	17.78	(N/A)	(N/A)
UGB2 (OUT)	100YR	100	58,510.000	12.00	13.43	87.58	5,152.000
UGB13 (IN)	2YR	2	6,853.000	12.00	1.99	(N/A)	(N/A)
UGB13 (OUT)	2YR	2	6,436.000	12.00	1.66	87.67	790.000
UGB13 (IN)	10YR	10	11,569.000	12.00	2.99	(N/A)	(N/A)

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB13 (OUT)	10YR	10	11,153.000	12.00	2.59	87.94	938.000
UGB13 (IN)	100YR	100	21,596.000	12.00	6.41	(N/A)	(N/A)
UGB13 (OUT)	100YR	100	21,172.000	12.00	5.62	88.62	1,306.000
UGB14 (IN)	2YR	2	3,665.000	12.00	1.17	(N/A)	(N/A)
UGB14 (OUT)	2YR	2	3,267.000	12.00	0.81	87.93	795.000
UGB14 (IN)	10YR	10	6,048.000	12.00	1.90	(N/A)	(N/A)
UGB14 (OUT)	10YR	10	5,649.000	12.05	1.13	88.40	1,054.000
UGB14 (IN)	100YR	100	11,140.000	12.00	3.43	(N/A)	(N/A)
UGB14 (OUT)	100YR	100	10,747.000	12.00	3.03	88.75	1,245.000
UGB9 (IN)	2YR	2	5,530.000	12.00	1.75	(N/A)	(N/A)
UGB9 (OUT)	2YR	2	4,673.000	12.00	1.38	101.75	1,373.000
UGB9 (IN)	10YR	10	9,229.000	12.00	2.87	(N/A)	(N/A)
UGB9 (OUT)	10YR	10	8,371.000	12.00	2.41	101.95	1,606.000
UGB9 (IN)	100YR	100	17,232.000	12.00	5.27	(N/A)	(N/A)
UGB9 (OUT)	100YR	100	16,375.000	12.00	4.66	102.32	2,012.000
UGB10 (IN)	2YR	2	9,542.000	12.00	2.93	(N/A)	(N/A)
UGB10 (OUT)	2YR	2	7,614.000	12.05	1.84	107.55	3,323.000
UGB10 (IN)	10YR	10	15,531.000	12.00	4.76	(N/A)	(N/A)
UGB10 (OUT)	10YR	10	13,603.000	12.05	3.22	107.80	3,943.000
UGB10 (IN)	100YR	100	28,444.000	12.00	8.69	(N/A)	(N/A)
UGB10 (OUT)	100YR	100	26,517.000	12.00	6.39	108.26	5,040.000
UGB54 (IN)	2YR	2	3,508.000	12.00	1.12	(N/A)	(N/A)
UGB54 (OUT)	2YR	2	3,129.000	12.00	0.85	100.16	803.000
UGB54 (IN)	10YR	10	5,866.000	12.00	1.84	(N/A)	(N/A)
UGB54 (OUT)	10YR	10	5,487.000	12.00	1.51	100.36	958.000
UGB54 (IN)	100YR	100	10,979.000	12.00	3.40	(N/A)	(N/A)
UGB54 (OUT)	100YR	100	10,600.000	12.00	2.93	100.73	1,227.000
UGB41 (IN)	2YR	2	1,858.000	12.00	0.60	(N/A)	(N/A)
UGB41 (OUT)	2YR	2	1,663.000	12.00	0.54	105.23	345.000
UGB41 (IN)	10YR	10	3,030.000	12.00	0.96	(N/A)	(N/A)
UGB41 (OUT)	10YR	10	2,835.000	12.00	0.86	105.41	403.000
UGB41 (IN)	100YR	100	5,499.000	12.00	1.70	(N/A)	(N/A)

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB41 (OUT)	100YR	100	5,303.000	12.00	1.43	105.87	538.000
UGB27 (IN)	2YR	2	8,855.000	12.00	2.73	(N/A)	(N/A)
UGB27 (OUT)	2YR	2	3,955.000	12.05	1.27	101.28	3,785.000
UGB27 (IN)	10YR	10	13,875.000	12.00	4.20	(N/A)	(N/A)
UGB27 (OUT)	10YR	10	8,761.000	12.00	2.92	101.70	4,500.000
UGB27 (IN)	100YR	100	24,210.000	12.00	7.20	(N/A)	(N/A)
UGB27 (OUT)	100YR	100	18,912.000	12.00	5.82	102.27	5,318.000
Infil29 (IN)	2YR	2	11,996.000	12.00	3.75	(N/A)	(N/A)
Infil29 (OUT)	2YR	2	11,123.000	12.00	2.97	95.06	1,794.000
Infil29 (IN)	10YR	10	20,451.000	12.00	6.30	(N/A)	(N/A)
Infil29 (OUT)	10YR	10	19,578.000	12.00	5.08	95.38	2,290.000
Infil29 (IN)	100YR	100	39,152.000	12.00	11.88	(N/A)	(N/A)
Infil29 (OUT)	100YR	100	38,279.000	12.00	9.83	95.95	3,308.000
UGB7 (IN)	2YR	2	4,839.000	12.00	1.46	(N/A)	(N/A)
UGB7 (OUT)	2YR	2	2,298.000	12.10	0.51	100.12	1,658.000
UGB7 (IN)	10YR	10	8,173.000	12.00	2.45	(N/A)	(N/A)
UGB7 (OUT)	10YR	10	5,296.000	12.10	1.17	100.47	2,324.000
UGB7 (IN)	100YR	100	15,558.000	12.00	4.62	(N/A)	(N/A)
UGB7 (OUT)	100YR	100	12,419.000	12.10	1.88	101.24	3,729.000
UGB3 (IN)	2YR	2	22,133.000	17.50	0.42	(N/A)	(N/A)
UGB3 (OUT)	2YR	2	20,689.000	17.75	0.40	85.84	400.000
UGB3 (IN)	10YR	10	66,032.000	15.40	1.21	(N/A)	(N/A)
UGB3 (OUT)	10YR	10	63,381.000	15.60	1.18	86.16	1,036.000
UGB3 (IN)	100YR	100	156,729.000	12.50	10.44	(N/A)	(N/A)
UGB3 (OUT)	100YR	100	153,454.000	12.80	9.88	88.14	7,110.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.390	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.040	0.0	0.0	90.000
Impervious non vehicular	98.000	0.040	0.0	0.0	98.000
Impervious roof	98.000	0.070	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.540	(N/A)	(N/A)	97.407

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA1 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.530	0.0	0.0	61.000
Grass C soils	74.000	0.310	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	65.798

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA1 Perv Basin
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.140	0.0	0.0	61.000
Grass C soil	74.000	0.130	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.270	(N/A)	(N/A)	67.259

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA10 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.150	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.010	0.0	0.0	90.000
Impervious non vehicular	98.000	0.100	0.0	0.0	98.000
Impervious roof	98.000	0.530	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.790	(N/A)	(N/A)	97.899

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA10 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.240	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.240	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA11 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.150	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.130	0.0	0.0	90.000
Impervious non vehicula	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.610	(N/A)	(N/A)	96.295

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA11 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.180	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.180	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA12A Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Roof	98.000	0.360	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.360	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA12A Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass basin area C soils	74.000	0.170	0.0	0.0	74.000
Grass B soils	61.000	2.090	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.260	(N/A)	(N/A)	61.978

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA13 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.090	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.110	0.0	0.0	90.000
Impervious non vehicular	98.000	0.010	0.0	0.0	98.000
Impervious roof	98.000	0.130	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.340	(N/A)	(N/A)	95.412

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA13 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.040	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.040	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA14 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.090	0.0	0.0	90.000
Impervious non vehicular	98.000	0.040	0.0	0.0	98.000
Impervious roof	98.000	0.100	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.330	(N/A)	(N/A)	95.818

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA14 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.070	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.070	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA15 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.240	0.0	0.0	98.000
Impervious non vehicular	98.000	0.090	0.0	0.0	98.000
Impervious roof	98.000	0.470	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.040	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	97.619

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA15 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.820	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.820	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA16 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vevicular	98.000	0.540	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.240	0.0	0.0	90.000
Impervious roof	98.000	0.570	0.0	0.0	98.000
Impervious non vehicular	98.000	0.130	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.480	(N/A)	(N/A)	96.703

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA16 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.870	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.870	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA17 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.170	0.0	0.0	98.000
Impervious non vehicular	98.000	0.460	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.220	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.850	(N/A)	(N/A)	95.929

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA17 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.120	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.120	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA18 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.260	0.0	0.0	98.000
Impervious non vehicular	98.000	0.120	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.110	0.0	0.0	90.000
Impervious Roof	98.000	0.290	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.780	(N/A)	(N/A)	96.872

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA18 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.370	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.370	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA19 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.110	0.0	0.0	98.000
Impervious non vehicular	98.000	0.140	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.100	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.350	(N/A)	(N/A)	95.714

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA19 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.100	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.100	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.280	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.140	0.0	0.0	90.000
Impervious non vehicular	98.000	0.120	0.0	0.0	98.000
Impervious roof	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	96.667

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA2 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.870	0.0	0.0	61.000
Grass C soils	74.000	0.050	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.920	(N/A)	(N/A)	61.707

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA20 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.070	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.070	0.0	0.0	90.000
Impervious non vehicular	98.000	0.090	0.0	0.0	98.000
Impervious roof	98.000	0.460	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.690	(N/A)	(N/A)	97.188

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA20 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.400	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.400	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA21 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.160	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.120	0.0	0.0	90.000
Impervious non vehicular	98.000	0.040	0.0	0.0	98.000
Impervious roof	98.000	0.200	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.520	(N/A)	(N/A)	96.154

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA21 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.230	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.230	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA22 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.170	0.0	0.0	98.000
Impervious non vehicular	98.000	0.290	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.220	0.0	0.0	90.000
Impervious roof	98.000	0.150	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.830	(N/A)	(N/A)	95.880

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA22 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.380	0.0	0.0	61.000
Grass C soil	74.000	0.070	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.450	(N/A)	(N/A)	63.022

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA25 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	1.240	0.0	0.0	98.000
Impervious Non Vehicular	98.000	0.260	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.430	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.930	(N/A)	(N/A)	96.218

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA25 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.190	0.0	0.0	61.000
Grass C soils	74.000	0.030	0.0	0.0	74.000
Basin area	61.000	1.260	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.480	(N/A)	(N/A)	61.264

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA26 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.520	0.0	0.0	98.000
Impervious non vehicular	98.000	0.110	0.0	0.0	98.000
Impervious roof	98.000	0.550	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.410	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.590	(N/A)	(N/A)	95.937

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA26 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.750	0.0	0.0	61.000
Basin Area	61.000	0.440	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.190	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA28 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.380	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.150	0.0	0.0	90.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious roof	98.000	0.290	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.900	(N/A)	(N/A)	96.667

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA28 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.400	0.0	0.0	61.000
Basin area B soils	61.000	0.410	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.810	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA29 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.240	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.220	0.0	0.0	90.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious roof	98.000	0.490	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.030	(N/A)	(N/A)	96.291

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA29 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.450	0.0	0.0	61.000
Basin Area B soil	61.000	0.060	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.510	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA30 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.460	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.270	0.0	0.0	90.000
Impervious non vehicular	98.000	0.150	0.0	0.0	98.000
Impervious roof	98.000	0.500	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.380	(N/A)	(N/A)	96.435

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA30 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.430	0.0	0.0	61.000
Grass C soils	74.000	0.250	0.0	0.0	74.000
Grass Basin area B soil	61.000	0.740	0.0	0.0	61.000
Grass Basin area C soil	74.000	0.290	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.710	(N/A)	(N/A)	65.105

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA31 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.250	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.050	0.0	0.0	90.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious roof	98.000	0.200	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.580	(N/A)	(N/A)	97.310

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA31 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	98.000	0.270	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.270	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA32 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.700	0.0	0.0	98.000
Impervious non vehicular	98.000	0.200	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.250	0.0	0.0	90.000
Impervious roof	98.000	1.130	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.280	(N/A)	(N/A)	97.123

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA32 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.220	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.220	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA33 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.090	0.0	0.0	98.000
Impervious porous asphalt	98.000	0.060	0.0	0.0	98.000
Impervious roof	98.000	0.160	0.0	0.0	98.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.340	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA33 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.090	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.090	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA34 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious non-vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.160	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.060	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.350	(N/A)	(N/A)	96.629

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA34 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.130	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.130	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA35 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.020	0.0	0.0	90.000
Impervious roof	98.000	0.060	0.0	0.0	98.000
Impervious	98.000	0.020	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.200	(N/A)	(N/A)	97.200

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA35 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.550	0.0	0.0	61.000
Grass Basin B soils	61.000	0.230	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.780	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA36 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.130	0.0	0.0	98.000
Impervious non vehicular	98.000	0.310	0.0	0.0	98.000
Impervious roof	98.000	0.070	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.510	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA36 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.290	0.0	0.0	61.000
Grass C soil	74.000	0.400	0.0	0.0	74.000
Basin Area B soils	61.000	0.040	0.0	0.0	61.000
Basin Area C soils	74.000	0.030	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.760	(N/A)	(N/A)	68.355

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA37 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious non vehicular	98.000	0.060	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.050	0.0	0.0	90.000
Imperviousd roof	98.000	0.140	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.350	(N/A)	(N/A)	96.857

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA37 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grasss B soil	61.000	0.180	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.180	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA4 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.330	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.210	0.0	0.0	90.000
Impervious non vehicular	98.000	0.020	0.0	0.0	98.000
Impervious roof	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.860	(N/A)	(N/A)	96.047

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA4 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.150	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.150	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA41 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.050	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.050	0.0	0.0	90.000
Impervious non vehicular	98.000	0.010	0.0	0.0	98.000
Impervious roof	98.000	0.060	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.170	(N/A)	(N/A)	95.647

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA41 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.020	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.020	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA42 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.080	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.250	0.0	0.0	90.000
Impervious roof	98.000	0.210	0.0	0.0	98.000
Impervious non vehicular	98.000	0.020	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.560	(N/A)	(N/A)	94.429

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA42 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.220	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.220	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA43 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious roof	98.000	0.100	0.0	0.0	98.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.130	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA43 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.080	0.0	0.0	61.000
Grass C soil	74.000	0.080	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.160	(N/A)	(N/A)	67.500

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA44 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious porous asphalt	90.000	0.090	0.0	0.0	90.000
Impervious roof	98.000	0.110	0.0	0.0	98.000
Impervious non Vehicular	98.000	0.010	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.210	(N/A)	(N/A)	94.571

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA44 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.030	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.030	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA45 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.700	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.420	0.0	0.0	90.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious roof	98.000	0.610	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.810	(N/A)	(N/A)	96.144

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA45 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Basin Area Grass B soil	61.000	0.470	0.0	0.0	61.000
Grass B soil	61.000	0.220	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.690	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA46 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.140	0.0	0.0	98.000
Impervious porous	90.000	0.040	0.0	0.0	90.000
Impervious roof	98.000	0.060	0.0	0.0	98.000
Impervious non vehicular	98.000	0.070	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.310	(N/A)	(N/A)	96.968

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA46 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.130	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.130	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA47 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.270	0.0	0.0	98.000
Impervious non vehicular	98.000	0.100	0.0	0.0	98.000
Impervious roof	98.000	0.090	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.070	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.530	(N/A)	(N/A)	96.943

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA47- Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.300	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.300	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA48 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.060	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.050	0.0	0.0	90.000
Impervious non vehicular	98.000	0.010	0.0	0.0	98.000
Impervious roof	98.000	0.090	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.210	(N/A)	(N/A)	96.095

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA48 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.090	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.090	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA49 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.090	0.0	0.0	98.000
Imperious porous asphalt	90.000	0.030	0.0	0.0	90.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.150	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.300	(N/A)	(N/A)	97.200

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA49 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.180	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.180	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA5 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.110	0.0	0.0	98.000
Impervious non vehicular	98.000	0.170	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.100	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.380	(N/A)	(N/A)	95.895

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA5 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.130	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.130	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA50 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.200	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.030	0.0	0.0	90.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.100	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.360	(N/A)	(N/A)	97.333

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA50 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.120	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.120	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA51 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.160	0.0	0.0	98.000
Impervious roof	98.000	0.090	0.0	0.0	98.000
Impervious non vehicular	98.000	0.020	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.035	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.305	(N/A)	(N/A)	97.082

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA51 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.420	0.0	0.0	61.000
Grass Basin B soil	61.000	0.200	0.0	0.0	61.000
Grass C soil	74.000	0.100	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.720	(N/A)	(N/A)	62.806

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA52 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.300	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.080	0.0	0.0	90.000
Impervious non vehicular	98.000	0.060	0.0	0.0	98.000
Impervious roof	98.000	0.280	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.720	(N/A)	(N/A)	97.111

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA52 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.820	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.820	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA53 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.090	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.060	0.0	0.0	90.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.140	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.320	(N/A)	(N/A)	96.500

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA53 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.370	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.370	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA54 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.070	0.0	0.0	90.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.110	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.310	(N/A)	(N/A)	96.194

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA54 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.100	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.100	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA55 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious non vehicular	98.000	0.270	0.0	0.0	98.000
Impervious roof	98.000	0.470	0.0	0.0	98.000
Impervious vehicular	98.000	1.050	0.0	0.0	98.000
impervious porous asphalt	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.090	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA55 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.210	0.0	0.0	61.000
Grass C soils	74.000	0.200	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.410	(N/A)	(N/A)	67.341

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA56 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious roof	98.000	0.220	0.0	0.0	98.000
Impervious vehicular	98.000	0.930	0.0	0.0	98.000
Impervious non vehicular	98.000	0.090	0.0	0.0	98.000
Impervious Porous asphalt	90.000	0.840	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.080	(N/A)	(N/A)	94.769

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA56 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.280	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.280	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA57 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.440	0.0	0.0	98.000
Impervious Roof	98.000	0.090	0.0	0.0	98.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.230	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	95.810

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA57 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.080	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.080	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA58 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	1.070	0.0	0.0	98.000
Impervious Non Vehicular	98.000	0.040	0.0	0.0	98.000
Impervious Porous Asphalt	90.000	0.460	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.570	(N/A)	(N/A)	95.656

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA58 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass Basin C soils	74.000	0.640	0.0	0.0	74.000
Grass C soils	74.000	0.360	0.0	0.0	74.000
Grass B soils	61.000	0.570	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.570	(N/A)	(N/A)	69.280

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA59 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.350	0.0	0.0	98.000
Impervious roof	98.000	0.400	0.0	0.0	98.000
Impervious non vehicular	98.000	0.150	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.120	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.020	(N/A)	(N/A)	97.059

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA59 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.350	0.0	0.0	61.000
Grass C soil	74.000	1.090	0.0	0.0	74.000
Grass C Basin Area	74.000	0.400	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.840	(N/A)	(N/A)	71.527

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.160	0.0	0.0	98.000
Impervious non vehicular	98.000	0.260	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.070	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.490	(N/A)	(N/A)	96.857

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA6 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.220	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.220	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA60 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.500	0.0	0.0	98.000
Impervious Roof	98.000	0.360	0.0	0.0	98.000
Impervious non vehicular	98.000	0.150	0.0	0.0	98.000
Impervious Porous Asphalt	90.000	0.310	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.320	(N/A)	(N/A)	96.121

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA60 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.230	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.230	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA61 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.520	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.520	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA61 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.060	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.060	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA62 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	1.270	0.0	0.0	98.000
Impervious non vehicular	98.000	0.130	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.400	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA62 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.120	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.120	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA63 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Roof	98.000	0.670	0.0	0.0	98.000
Impervious Vehicular	98.000	0.330	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.000	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA7 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.230	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.030	0.0	0.0	90.000
Impervious non vehicular	98.000	0.140	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.400	(N/A)	(N/A)	97.400

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA7 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.210	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.210	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA9 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.210	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.110	0.0	0.0	90.000
Impervious non vehicular	98.000	0.020	0.0	0.0	98.000
Impervius roof	98.000	0.150	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.490	(N/A)	(N/A)	96.204

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA9 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.150	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.150	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: EDA3 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B	61.000	2.840	0.0	0.0	61.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	0.550	0.0	0.0	74.000
Woods - good - Soil B	55.000	0.500	0.0	0.0	55.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.890	(N/A)	(N/A)	62.067

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.540	0.0	0.0	61.000
Grass C soil	74.000	0.220	0.0	0.0	74.000
Woods B soil	55.000	0.250	0.0	0.0	55.000
Woods C soil	70.000	0.050	0.0	0.0	70.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.060	(N/A)	(N/A)	62.708

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Basin 6 Area	61.000	1.910	0.0	0.0	61.000
Wooded Area (S Brunswick)	55.000	1.730	0.0	0.0	55.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.640	(N/A)	(N/A)	58.148

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Future Connection Road	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.300	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular (Nursery Blvd)	98.000	4.500	0.0	0.0	98.000
Impervious non vehicular/roof (Nursery Blvd)	98.000	7.220	0.0	0.0	98.000
Impervious Vehicular Road C	98.000	0.340	0.0	0.0	98.000
Impervious roof	98.000	0.160	0.0	0.0	98.000
Impervious porous Road C	90.000	0.130	0.0	0.0	90.000
Impervious non vehicular Road C	98.000	0.110	0.0	0.0	98.000
Impervious porous asphaly Nursery Blvd	90.000	0.300	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	12.760	(N/A)	(N/A)	97.730

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: PDA-6 PER (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Fair condition; grass cover 50% to 75% - Soil C (original design)	74.000	0.480	0.0	0.0	74.000
Open space B soil (Road C)	61.000	0.830	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.310	(N/A)	(N/A)	65.763

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: PDA8 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious roof	98.000	0.380	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.380	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: PDA8 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.260	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.260	(N/A)	(N/A)	61.000

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-1 Perv	0.012	0.24	45.64	Used 45
PDA-2 Perv	0.1	0.24	131.76	Used 55'
PDA-4 Perv	0.055	0.24	97.72	Used 34'
PDA-5 Perv	0.033	0.24	75.69	Used 18'
PDA-6 Perv	0.028	0.24	69.72	Used 35'
PDA-7 Perv	0.08	0.24	117.85	Used 56'
PDA-9 Perv	0.09	0.24	125.00	Used 50'
PDA-10 Perv	0.015	0.24	51.03	Used 10'
PDA-11 Perv	0.13	0.24	150.23	Used 15'
PDA-12 Perv	0.03	0.24	72.17	Used 59'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-14 Perv	0.045	0.24	88.39	Used 22'
PDA-15 Perv	0.08	0.24	117.85	Used 34'
PDA-16 Perv	0.2	0.24	186.34	Used 57'
PDA-17 Perv	0.03	0.24	72.17	Used 17'
PDA-18 Perv	0.04	0.24	83.33	Used 50'
PDA-19 Perv	0.016	0.24	52.70	Used 26'
PDA-20 Perv	0.03	0.24	72.17	Used 20'
PDA-21 Perv	0.02	0.24	58.93	Used 31'
PDA-22 Perv	0.02	0.24	58.93	Used 30'
PDA-25 Perv	0.015	0.24	51.03	Used 51'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-26 Perv	0.02	0.24	58.93	Used 44'
PDA-28 Perv	0.06	0.24	102.06	Used 73'
PDA-29 Perv	0.033	0.24	75.69	Used 33'
PDA-30 Perv	0.05	0.24	93.17	Used 55'
PDA-31 Perv	0.02	0.24	58.93	Used 15'
PDA-32	0.026	0.011	1465.87	Used 100'
PDA-33 Perv	0.33	0.24	239.36	Used 20'
PDA-34 Perv	0.02	0.24	58.93	Used 20'
PDA-35 Perv	0.06	0.24	102.06	Used 57'
PDA-36 Perv	0.02	0.24	58.93	Used 12'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-37 Perv	0.02	0.24	58.93	Used 18'
PDA-41	0.04	0.011	1818.18	Used 100'
PDA-42 Perv	0.043	0.24	86.40	Used 23'
PDA-43 Perv	0.045	0.24	88.39	Used 50'
PDA-44	0.012	0.011	995.86	Used 60'
PDA-45 Perv	0.059	0.24	101.21	Used 16'
PDA-46 Perv	0.04	0.24	83.33	Used 43'
PDA-47 Perv	0.024	0.24	64.55	Used 64'
PDA-48 Perv	0.03	0.24	72.17	Used 35'
PDA-49 Perv	0.02	0.24	58.93	Used 10'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-50 Perv	0.024	0.24	64.55	Used 42'
PDA-51 Perv	0.02	0.24	58.93	Used 59'
PDA-52 Perv	0.043	0.24	86.40	Used 23'
PDA-53 Perv	0.045	0.24	88.39	Used 50'
PDA-54 Perv	0.032	0.24	74.54	Used 17'
PDA-55 Perv	0.03	0.24	72.17	Used 25'
PDA-56 Perv	0.02	0.24	58.93	Used 10'
PDA-57 Perv	0.024	0.24	64.55	Used 23'
PDA-58 Perv	0.03	0.24	72.17	Used 72'
PDA-59 Perv	0.023	0.24	63.19	Used 63'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-60 Perv	0.01	0.24	41.67	Used 22'
PDA-61 Perv	0.032	0.24	74.54	Used 55'
PDA-62 Perv	0.033	0.24	75.69	Used 75'
PDA-63	0.013	0.011	1036.52	Used 100'

IMPERVIOUS SHEET FLOW LENGTHS CALCULATED BELOW FOR VARIOUS SLOPES MINIMUM 100' UTILIZED IN CALCULATIONS

Enter "S" Slope	Enter "n" Manning's	Equals Length	
0.01	0.011	909.09	Used 100'
0.015	0.011	1113.40	Used 100'
0.02	0.011	1285.65	Used 100'
0.025	0.011	1437.40	Used 100'
0.03	0.011	1574.59	Used 100'
0.04	0.011	1818.18	Used 100'

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.16 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	41.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	182.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	45.00 ft
Manning's n	0.240
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.15 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	41.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	182.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.17 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Perv Basin
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.37 ft/s
Segment Time of Concentration	0.08 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Perv Basin
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA10 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.26 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA10 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA10 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.07 ft/s
Segment Time of Concentration	0.04 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	110.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA10 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA11 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.130 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	271.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	131.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA11 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA11 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.130 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	271.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	131.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA11 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA12A Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.89 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	120.00 ft
Is Paved?	False
Slope	0.025 ft/ft
Average Velocity	2.55 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	685.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.42 ft/s
Segment Time of Concentration	0.06 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA12A Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA12A Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	72.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.15 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	58.00 ft
Is Paved?	False
Slope	0.025 ft/ft
Average Velocity	2.55 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	685.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.42 ft/s
Segment Time of Concentration	0.06 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.21 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA12A Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA13 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.21 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	54.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA13 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA13 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.21 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	54.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA13 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA14 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.21 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	111.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA14 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA14 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	22.00 ft
Manning's n	0.240
Slope	0.045 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	111.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA14 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA15 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	24.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.30 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	286.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	104.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.04 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA15 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA15 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.080 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	286.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	104.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.04 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA15 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA16 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.011
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.21 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	235.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA16 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA16 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	57.00 ft
Manning's n	0.240
Slope	0.200 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.27 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	235.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA16 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA17 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.26 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	63.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA17 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA17 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	17.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	263.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA17 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA18 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.10 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	292.00 ft
Manning's n	0.015
Slope	0.027 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	7.44 ft/s
Segment Time of Concentration	0.01 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	32.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.13 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA18 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA18 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.10 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	292.00 ft
Manning's n	0.015
Slope	0.027 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	7.44 ft/s
Segment Time of Concentration	0.01 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	32.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.13 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA18 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA19 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	26.00 ft
Manning's n	0.240
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	224.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	6.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA19 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA19 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	26.00 ft
Manning's n	0.240
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	224.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	6.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA19 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.19 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	70.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA2 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.240
Slope	0.100 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.20 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	258.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.11 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA2 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA20 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.011
Slope	0.025 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.12 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	208.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	85.00 ft
Manning's n	0.015
Slope	0.047 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	9.81 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA20 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA20 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	18.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	208.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	85.00 ft
Manning's n	0.015
Slope	0.047 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	9.81 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA20 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA21 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	58.00 ft
Manning's n	0.240
Slope	0.170 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.25 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	40.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA21 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA21 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	31.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	30.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.11 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA21 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA22 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.73 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	45.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	41.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA22 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA22 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	124.00 ft
Is Paved?	False
Slope	0.020 ft/ft
Average Velocity	2.28 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	35.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.11 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA22 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA25 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.034 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.75 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	29.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	920.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.08 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA25 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA25 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	51.00 ft
Manning's n	0.240
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.15 hours

Segment #2: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	785.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.07 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.22 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA25 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA26 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.26 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	315.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.04 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	195.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA26 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA26 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	44.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.12 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	292.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	195.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.17 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA26 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA28 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.16 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	111.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA28 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA28 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	73.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.18 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	127.00 ft
Is Paved?	True
Slope	0.017 ft/ft
Average Velocity	2.65 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	0.8 ft²
Hydraulic Length	104.00 ft
Manning's n	0.015
Slope	0.003 ft/ft
Wetted Perimeter	2.60 ft
Average Velocity	2.48 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.20 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA28 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA29 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	33.00 ft
Manning's n	0.240
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	270.00 ft
Is Paved?	True
Slope	0.022 ft/ft
Average Velocity	3.02 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	59.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.11 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA29 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA30 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.011
Slope	0.048 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.53 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	194.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	54.00 ft
Manning's n	0.015
Slope	0.007 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.79 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA30 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA30 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.10 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	194.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	54.00 ft
Manning's n	0.015
Slope	0.007 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.79 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.13 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA30 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA31 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.022 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.47 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	295.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	93.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA31 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA31 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	379.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	93.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA31 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA32 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.026 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.57 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	42.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	126.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA32 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA32 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.026 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.57 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	42.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	126.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA32 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA33 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.16 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	81.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA33 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA33 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.25 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	176.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA33 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA34 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.011 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.12 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	109.00 ft
Is Paved?	True
Slope	0.011 ft/ft
Average Velocity	2.13 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA34 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA34 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	106.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA34 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA35 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.16 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	100.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	121.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA35 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA35 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	45.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.08 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA35 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA36 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.035 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.77 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	145.00 ft
Is Paved?	True
Slope	0.035 ft/ft
Average Velocity	3.80 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA36 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA36 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	12.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.04 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	245.00 ft
Is Paved?	True
Slope	0.035 ft/ft
Average Velocity	3.80 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA36 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA37 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.42 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	145.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.10 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA37 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA37 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	18.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	237.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.10 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA37 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA4 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.055 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	2.13 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	50.00 ft
Is Paved?	True
Slope	0.055 ft/ft
Average Velocity	4.77 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA4 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA4 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	34.00 ft
Manning's n	0.240
Slope	0.055 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	50.00 ft
Is Paved?	True
Slope	0.055 ft/ft
Average Velocity	4.77 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA4 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA41 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	88.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.82 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA41 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA41 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.87 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA41 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA42 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.73 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	150.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	46.00 ft
Manning's n	0.015
Slope	0.018 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.07 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA42 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA42 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	23.00 ft
Manning's n	0.240
Slope	0.043 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	211.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	46.00 ft
Manning's n	0.015
Slope	0.018 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.07 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA42 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA43 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	54.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.95 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA43 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA43 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.045 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.10 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA43 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA44 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	60.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.04 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	72.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA44 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA44 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	60.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.04 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	72.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA44 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.015
Slope	0.022 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.02 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	437.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.04 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.8 ft²
Hydraulic Length	49.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	4.70 ft
Average Velocity	3.70 ft/s
Segment Time of Concentration	0.00 hours

Segment #4: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	129.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.01 hours

Segment #5: TR-55 Channel Flow	
Flow Area	7.1 ft²

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Segment #5: TR-55 Channel Flow	
Hydraulic Length	162.00 ft
Manning's n	0.015
Slope	0.003 ft/ft
Wetted Perimeter	9.40 ft
Average Velocity	4.51 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	16.00 ft
Manning's n	0.240
Slope	0.059 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.03 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	42.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	437.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.04 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.8 ft²
Hydraulic Length	49.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	4.70 ft
Average Velocity	3.70 ft/s
Segment Time of Concentration	0.00 hours

Segment #5: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	129.00 ft
Manning's n	0.015

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Segment #5: TR-55 Channel Flow	
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.01 hours

Segment #6: TR-55 Channel Flow	
Flow Area	7.1 ft²
Hydraulic Length	162.00 ft
Manning's n	0.015
Slope	0.003 ft/ft
Wetted Perimeter	9.40 ft
Average Velocity	4.51 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA46 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.025 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.55 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	92.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	58.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA46 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA46 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	43.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	136.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	58.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.11 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA46 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA47 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.019 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.39 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	189.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.41 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	211.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA47 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA47- Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	64.00 ft
Manning's n	0.240
Slope	0.024 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.15 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	218.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.44 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	211.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.23 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.19 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA47- Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA48 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	117.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA48 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA48 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	117.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA48 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA49 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.19 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	175.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	27.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA49 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA49 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.04 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	274.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	27.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA49 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA5 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.36 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	147.00 ft
Is Paved?	True
Slope	0.040 ft/ft
Average Velocity	4.07 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	25.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA5 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA5 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.03 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	147.00 ft
Is Paved?	True
Slope	0.040 ft/ft
Average Velocity	4.07 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	25.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA5 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA50 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.87 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	121.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	140.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA50 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA50 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	42.00 ft
Manning's n	0.240
Slope	0.024 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.11 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	131.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	140.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.13 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA50 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA51 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.07 ft/s
Segment Time of Concentration	0.03 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	198.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	45.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA51 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA51 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	59.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.15 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	206.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	45.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.18 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA51 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA52 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.028 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.62 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	48.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA52 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA52 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	36.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.10 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	132.00 ft
Is Paved?	True
Slope	0.030 ft/ft
Average Velocity	3.52 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.12 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA52 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA53 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.67 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	55.00 ft
Is Paved?	True
Slope	0.030 ft/ft
Average Velocity	3.52 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	118.00 ft
Manning's n	0.015
Slope	0.004 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	2.86 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA53 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA53 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.10 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	130.00 ft
Is Paved?	True
Slope	0.030 ft/ft
Average Velocity	3.52 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	118.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.12 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA53 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA54 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.26 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	122.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA54 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA54 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	17.00 ft
Manning's n	0.240
Slope	0.032 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	224.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA54 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA55 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.11 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	73.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	123.00 ft
Manning's n	0.015
Slope	0.020 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.40 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA55 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA55 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	73.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	123.00 ft
Manning's n	0.015
Slope	0.020 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.40 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA55 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA56 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.89 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	181.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA56 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA56 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.04 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	181.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA56 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA57 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	47.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.22 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	63.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.08 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA57 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA57 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	23.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.07 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	63.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.08 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA57 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA58 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.035 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.77 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	73.00 ft
Is Paved?	True
Slope	0.017 ft/ft
Average Velocity	2.65 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	285.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA58 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA58 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	72.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.15 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	80.00 ft
Is Paved?	False
Slope	0.033 ft/ft
Average Velocity	2.93 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	59.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	285.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.19 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA58 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA59 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	283.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	31.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA59 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA59 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	63.00 ft
Manning's n	0.240
Slope	0.023 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.15 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	283.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	31.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.19 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA59 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.07 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	68.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	60.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA6 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.028 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	68.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	60.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA6 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA60 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	47.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.22 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	74.00 ft
Is Paved?	True
Slope	0.019 ft/ft
Average Velocity	2.80 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA60 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA60 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	22.00 ft
Manning's n	0.240
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.07 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	78.00 ft
Is Paved?	True
Slope	0.019 ft/ft
Average Velocity	2.80 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA60 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA61 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.023 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.50 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	128.00 ft
Is Paved?	True
Slope	0.018 ft/ft
Average Velocity	2.73 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA61 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA61 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.240
Slope	0.032 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.12 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	147.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.13 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA61 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc =
R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA62 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.037 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.81 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	109.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	68.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA62 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA62 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	75.00 ft
Manning's n	0.240
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.15 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	91.00 ft
Is Paved?	False
Slope	0.033 ft/ft
Average Velocity	2.93 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.16 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA62 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA63 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.17 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	115.00 ft
Is Paved?	True
Slope	0.036 ft/ft
Average Velocity	3.86 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA63 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA7 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.26 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	266.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA7 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA7 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	56.00 ft
Manning's n	0.240
Slope	0.080 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	266.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.11 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA7 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA9 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	22.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.05 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	174.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA9 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA9 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.090 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.07 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	182.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.27 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: DA9 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA3 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	70.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.34 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	428.00 ft
Is Paved?	False
Slope	0.039 ft/ft
Average Velocity	3.19 ft/s
Segment Time of Concentration	0.04 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA3 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	65.00 ft
Manning's n	0.240
Slope	0.100 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.21 ft/s
Segment Time of Concentration	0.09 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.16 ft/s
Segment Time of Concentration	0.17 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	217.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.19 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.23 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	225.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.42 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	553.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.05 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	941.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.08 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.8 ft²
Hydraulic Length	385.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	4.70 ft
Average Velocity	3.70 ft/s
Segment Time of Concentration	0.03 hours

Segment #5: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	695.00 ft
Manning's n	0.015

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Segment #5: TR-55 Channel Flow	
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.04 hours

Segment #6: TR-55 Channel Flow	
Flow Area	7.1 ft²
Hydraulic Length	490.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	9.40 ft
Average Velocity	5.83 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.25 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: PDA8 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.07 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: PDA8 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: PDA8 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.300 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.22 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Current Rainfall

Subsection: Time of Concentration Calculations
Label: PDA8 Perv
Scenario: 2YR

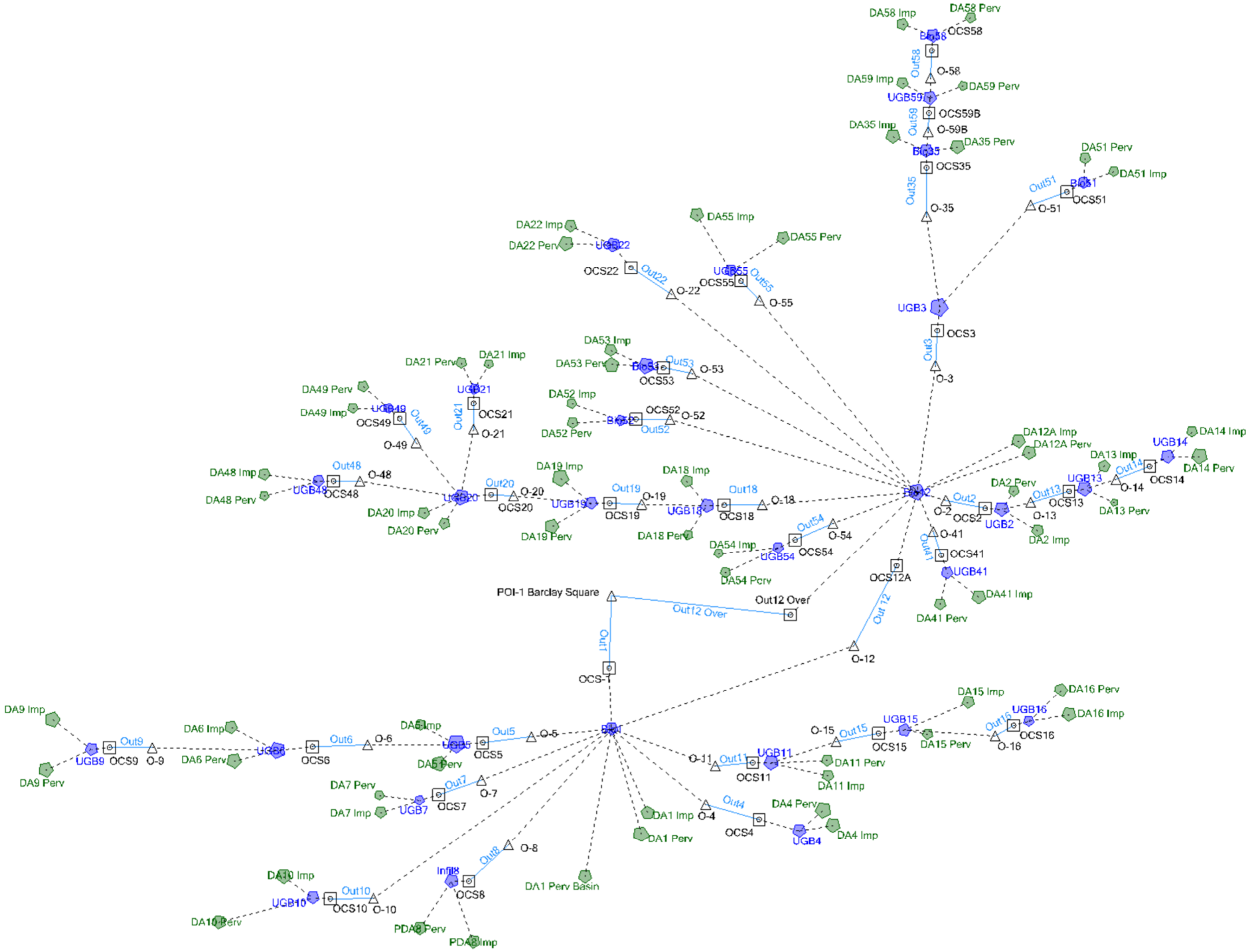
Return Event: 2 years
Storm Event: 2yr current

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet


DA58 Imp
DA58 Perv
OCS58
Out58
O-58
DA59 Imp
DA59 Perv
UGB59
OCS59B
Out59
O-59B
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DA35 Perv
OCS35
Out35
O-35
DA51 Perv
DA51 Imp
Out51
OCS51
O-51
DA22 Imp
DA22 Perv
UGB22
OCS22
Out22
O-22
DA55 Imp
DA55 Perv
OCS55
Out55
O-55
UGB3
OCS3
Out3
O-3
DA53 Imp
DA53 Perv
Out53
OCS53
O-53
DA52 Imp
DA52 Perv
OCS52
Out52
O-52
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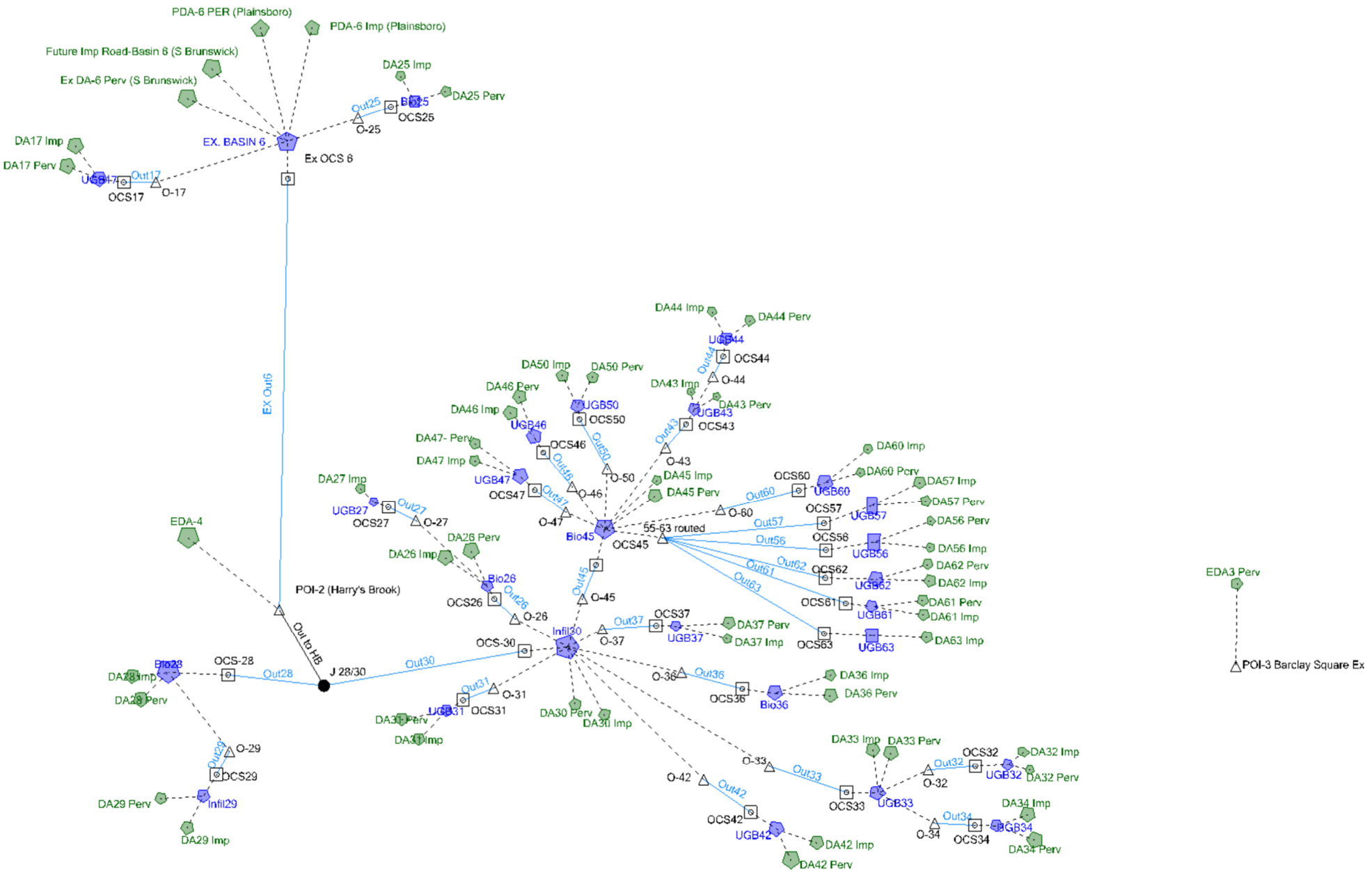
UGB21
OCS21
Out21
O-21
DA49 Perv
DA49 Imp
OCS49
Out49
O-49
DA48 Imp
DA48 Perv
Out48
UGB48
OCS48
O-48
DA19 Imp
DA19 Perv
Out19
UGB19
OCS19
O-19
DA18 Imp
DA18 Perv
Out18
UGB18
OCS18
O-18
DA20 Imp
DA20 Perv
Out20
OCS20
O-20
DA12A Imp
DA12A Perv
DA14 Imp
UGB14
DA14 Perv
OCS14
Out14
O-14
DA13 Imp
UGB13
Out13
OCS13
O-13
DA13 Perv
DA2 Perv
Out2
O-2
OCS2
UGB2
DA2 Imp
DA54 Imp
Out54
O-54
UGB54
OCS54
DA54 Perv
O-41
Out41
OCS41
UGB41
DA41 Imp
DA41 Perv
OCS12A
POI-1 Barclay Square
Out12 Over
Out12
O-12
Out1
OCS-1
DA9 Imp
DA9 Perv
Out9
UGB9
OCS9
O-9
DA6 Imp
DA6 Perv
Out6
UGB6
OCS6
O-6
DA5 Imp
DA5 Perv
Out5
UGB5
OCS5
O-5
DA7 Perv
DA7 Imp
Out7
UGB7
OCS7
O-7
DA1 Imp
DA1 Perv
DA1 Perv Basin
O-4
Out4
OCS4
UGB4
DA4 Perv
DA4 Imp
O-11
Out11
UGB11
OCS11
DA11 Perv
DA11 Imp
O-15
Out15
UGB15
OCS15
DA15 Imp
DA15 Perv
UGB16
DA16 Perv
DA16 Imp
Out16
OCS16
O-16
DA10 Imp
DA10 Perv
Out10
UGB10
OCS10
O-10
Infill8
Out8
O-8
OCS8
PDA8 Perv
PDA8 Imp


PDA-6 PER (Plainsboro)
PDA-6 Imp (Plainsboro)
Future Imp Road-Basin 6 (S Brunswick)
Ex DA-6 Perv (S Brunswick)
DA25 Imp
DA25 Perv
Out25
Bio25
OCS25
O-25
DA17 Imp
DA17 Perv
EX. BASIN 6
Ex OCS 6
UGB17
Out17
OCS17
O-17
EX Out6
DA44 Imp
DA44 Perv
UGB44
OCS44
Out44
O-44
DA50 Imp
DA50 Perv
DA43 Imp
DA43 Perv
DA46 Perv
DA46 Imp
UGB50
OCS50
UGB43
OCS43
UGB46
OCS46
Out50
Out43
DA47- Perv
DA47 Imp
O-43
Out45
O-50
DA45 Imp
DA45 Perv
DA27 Imp
UGB47
OCS47
Out47
O-46
O-47
Out27
UGB27
OCS27
O-27
Bio45
55-63 routed
OCS45
DA60 Imp
DA60 Perv
OCS60
UGB60
Out60
O-60
DA57 Imp
DA57 Perv
OCS57
UGB57
Out57
DA56 Perv
DA56 Imp
OCS56
UGB56
Out56
DA62 Perv
DA62 Imp
Out62
OCS62
UGB62
Out61
Out63
DA61 Perv
DA61 Imp
OCS61
UGB61
DA63 Imp
OCS63
UGB63
EDA-4
DA26 Perv
DA26 Imp
Bio26
OCS26
Out26
O-26
Out45
O-45
POI-2 (Harry's Brook)
Out to HB
J 28/30
Out30
Infil30
O-37
Out37
OCS37
UGB37
DA37 Perv
DA37 Imp
OCS-30
O-36
Out36
OCS36
Bio36
DA36 Imp
DA36 Perv
Out31
O-31
UGB31
OCS31
DA30 Perv
DA30 Imp
DA31 Perv
DA31 Imp
Bio28
DA28 Imp
DA28 Perv
OCS-28
Out28
O-29
Out29
OCS29
DA29 Perv
Infil29
DA29 Imp
O-33
Out33
DA33 Imp
DA33 Perv
OCS32
DA32 Imp
Out32
O-32
UGB32
DA32 Perv
O-42
Out42
OCS33
UGB33
DA34 Imp
Out34
O-34
OCS34
UGB34
DA34 Perv
OCS42
UGB42
DA42 Imp
DA42 Perv
EDA3 Perv
POI-3 Barclay Square Ex

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.540 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.88 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	5,988.588 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,988.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.61 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.540 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.91 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.91 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	9,499.961 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,499.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.61 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.540 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	5.01 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.01 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	16,738.781 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,737.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.61 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.06 hours
Flow (Peak, Computed)	0.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.53 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.7 in
Runoff Volume (Pervious)	2,276.584 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,276.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.59 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.57 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.06 hours
Flow (Peak, Computed)	1.54 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.52 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.9 in
Runoff Volume (Pervious)	5,687.514 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,686.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.59 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.57 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.06 hours
Flow (Peak, Computed)	4.01 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	3.98 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	14,502.753 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,499.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.59 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.57 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.24 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	778.689 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	778.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.07 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.65 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.64 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.9 in
Runoff Volume (Pervious)	1,904.977 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,905.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.07 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	1.64 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.62 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.9 in
Runoff Volume (Pervious)	4,781.772 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,781.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.07 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.790 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.80 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.80 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.790 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	9,081.400 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,082.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	25.68 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.790 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.30 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.30 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.790 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	14,232.015 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,233.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	25.68 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.790 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.38 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.38 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.790 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	24,833.413 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	24,836.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	25.68 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.13 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	460.420 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	460.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.38 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.46 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,298.738 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,298.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.38 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.31 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	3,610.702 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,609.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.38 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.610 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.08 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	6,524.439 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,525.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.10 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.18 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.610 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.24 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.24 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	10,476.683 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,477.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.10 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.18 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.610 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	5.61 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.61 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	18,641.754 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	18,643.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.10 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.18 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.10 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	345.315 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	345.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.87 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.18 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.34 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	974.053 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	973.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.87 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.18 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.98 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.97 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	2,708.027 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,707.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.87 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.18 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.23 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.22 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	4,138.361 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,138.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.68 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.89 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.88 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	6,485.476 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,485.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.68 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.24 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.23 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	11,316.493 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,316.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.68 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.21 hours
Area (User Defined)	2.260 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.88 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	2.260 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.6 in
Runoff Volume (Pervious)	4,670.513 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,670.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.21 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	12.03 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.57 hours
Total unit time, Tb	0.71 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.21 hours
Area (User Defined)	2.260 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.09 hours
Flow (Peak, Computed)	3.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.03 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	2.260 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.6 in
Runoff Volume (Pervious)	12,824.872 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,823.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.21 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	12.03 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.57 hours
Total unit time, Tb	0.71 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.21 hours
Area (User Defined)	2.260 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.09 hours
Flow (Peak, Computed)	8.85 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	8.68 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	2.260 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.3 in
Runoff Volume (Pervious)	35,002.573 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	34,998.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.21 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	12.03 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.57 hours
Total unit time, Tb	0.71 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.15 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.8 in
Runoff Volume (Pervious)	3,506.254 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,508.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.16 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.81 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.81 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.6 in
Runoff Volume (Pervious)	5,699.165 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,701.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.16 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.15 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.3 in
Runoff Volume (Pervious)	10,241.563 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,243.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.16 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.040 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.02 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.02 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.040 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	76.737 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	77.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.55 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.040 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.040 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	216.456 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	217.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.55 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.040 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.22 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.040 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	601.784 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	603.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.55 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.330 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.14 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	3,529.613 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,530.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.39 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.330 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.77 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.77 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	5,667.713 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,668.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.39 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.330 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.06 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	10,084.883 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,086.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.39 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.070 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.04 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.070 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	134.289 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	134.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.26 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.17 hours
Total unit time, Tb	0.21 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.070 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.13 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.13 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.070 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	378.799 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	379.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.26 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.17 hours
Total unit time, Tb	0.21 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.070 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.37 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.37 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.070 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,053.122 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,053.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.26 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.17 hours
Total unit time, Tb	0.21 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.97 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.97 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	9,656.176 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,657.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	23.88 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.57 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	15,132.775 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,134.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	23.88 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.84 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.84 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	26,405.149 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	26,407.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	23.88 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.40 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.37 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	1,573.103 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,573.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.10 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	1.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.34 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	4,437.356 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,437.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.10 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	4.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.96 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	12,336.570 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,335.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.10 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	5.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.16 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	16,413.163 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,412.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	38.27 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.99 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.98 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	26,036.931 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	26,036.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	38.27 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	13.76 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	13.74 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	45,876.653 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	45,875.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	38.27 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.870 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.04 hours
Flow (Peak, Computed)	0.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.39 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.870 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	1,669.024 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,669.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.08 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.870 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	1.48 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.38 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.870 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	4,707.924 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,708.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.08 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.870 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	4.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.11 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.870 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	13,088.800 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,089.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.08 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.850 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.94 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.93 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.850 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	9,091.422 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,094.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	33.20 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.850 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.58 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.56 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.850 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	14,598.653 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,601.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	33.20 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.850 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.91 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.90 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.850 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	25,976.213 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	25,978.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	33.20 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.120 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.06 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	230.210 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	230.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.77 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.21 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	649.369 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	649.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.77 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.62 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.61 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,805.351 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,805.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.77 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	2.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	2.25 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	8,650.183 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,651.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.57 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.36 hours
Total unit time, Tb	0.45 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	3.59 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	3.48 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	13,722.169 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,724.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.57 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.36 hours
Total unit time, Tb	0.45 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	6.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	6.00 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	24,178.239 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	24,181.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.57 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.36 hours
Total unit time, Tb	0.45 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.370 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.05 hours
Flow (Peak, Computed)	0.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.16 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	709.815 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	710.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.12 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.36 hours
Total unit time, Tb	0.45 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.370 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.05 hours
Flow (Peak, Computed)	0.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.56 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	2,002.222 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,003.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.12 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.36 hours
Total unit time, Tb	0.45 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.370 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	1.66 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.64 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	5,566.501 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,567.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.12 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.36 hours
Total unit time, Tb	0.45 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	1.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.05 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	3,743.532 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,743.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.79 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	1.70 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.65 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	6,011.212 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,011.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.79 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	2.94 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.85 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	10,696.088 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,695.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.79 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.05 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	191.842 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	192.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.08 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	541.141 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	541.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.08 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.48 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.46 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,504.460 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,504.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.08 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.94 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.94 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	9,315.576 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,317.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	30.06 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.54 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	14,777.717 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,779.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	30.06 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.840 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.84 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.83 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	26,038.102 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	26,039.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	30.06 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.920 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.48 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.46 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	0.920 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.6 in
Runoff Volume (Pervious)	1,901.271 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,901.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.83 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.920 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	1.60 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.50 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	0.920 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.6 in
Runoff Volume (Pervious)	5,220.743 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,220.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.83 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.920 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	4.56 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.33 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	0.920 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.3 in
Runoff Volume (Pervious)	14,248.835 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,248.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.83 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.42 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.42 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	7,652.080 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,653.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	23.48 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.74 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.74 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	12,138.839 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,140.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	23.48 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	6.44 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	6.44 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	21,388.441 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,391.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	23.48 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.400 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.19 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	767.367 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	767.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.80 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.71 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.69 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	2,164.564 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,164.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.80 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	2.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.03 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	6,017.838 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,017.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.80 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	1.67 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.65 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	5,561.817 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,562.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.75 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	2.61 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.58 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	8,930.944 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,931.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.75 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	4.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.48 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	15,891.332 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,892.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.75 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.230 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.10 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	441.236 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	441.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.30 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.30 hours
Total unit time, Tb	0.38 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.37 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.36 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,244.624 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,245.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.30 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.30 hours
Total unit time, Tb	0.38 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	1.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.03 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	3,460.257 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,461.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.30 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.30 hours
Total unit time, Tb	0.38 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.830 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.87 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.87 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.830 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	8,877.503 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,882.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	40.93 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.08 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.830 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.47 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.46 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.830 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	14,255.151 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,260.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	40.93 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.08 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.830 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.73 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.72 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.830 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	25,365.006 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	25,370.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	40.93 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.08 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.450 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.25 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.450 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.6 in
Runoff Volume (Pervious)	998.928 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	999.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.81 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.450 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.77 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.450 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.6 in
Runoff Volume (Pervious)	2,674.059 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,674.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.81 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.450 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	2.30 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.19 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.450 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.4 in
Runoff Volume (Pervious)	7,169.229 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,168.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.81 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	1.930 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	6.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.96 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.930 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	20,642.905 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	20,644.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	22.35 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	1.930 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	9.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	9.32 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.930 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	33,147.544 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	33,150.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	22.35 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	1.930 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	16.48 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	16.15 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.930 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	58,981.289 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	58,986.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	22.35 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.22 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.50 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.50 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	2,839.260 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,839.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.22 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.65 ft³/s
Unit peak time, Tp	0.15 hours
Unit receding limb, Tr	0.58 hours
Total unit time, Tb	0.73 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.22 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.87 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.87 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	8,008.887 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,009.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.22 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.65 ft³/s
Unit peak time, Tp	0.15 hours
Unit receding limb, Tr	0.58 hours
Total unit time, Tb	0.73 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.22 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.50 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	22,266.004 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	22,267.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.22 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.65 ft³/s
Unit peak time, Tp	0.15 hours
Unit receding limb, Tr	0.58 hours
Total unit time, Tb	0.73 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.590 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	5.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.22 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.590 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	17,006.325 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,006.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	24.33 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.590 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	8.19 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	8.15 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.590 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	27,308.078 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	27,308.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	24.33 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.590 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	14.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	14.11 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.590 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	48,590.803 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	48,590.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	24.33 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	1.190 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	0.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.44 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.190 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	2,282.918 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,283.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.97 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.56 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	1.190 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	1.68 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.66 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.190 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	6,439.578 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,439.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.97 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.56 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	1.190 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	4.93 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	4.92 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.190 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	17,903.071 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,901.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.97 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.45 hours
Total unit time, Tb	0.56 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.770 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.73 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.73 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	8,851.484 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,855.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.770 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.20 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.20 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	13,871.707 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,875.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.770 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.20 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.20 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	24,204.718 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	24,210.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.900 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.15 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.900 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	9,980.978 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,982.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	26.92 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.900 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.87 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.87 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.900 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	15,833.270 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,834.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	26.92 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.900 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	8.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	8.39 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.900 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	27,897.965 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	27,900.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	26.92 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.20 hours
Area (User Defined)	0.810 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.29 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.28 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.810 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	1,553.919 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,554.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.20 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.49 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.54 hours
Total unit time, Tb	0.68 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.20 hours
Area (User Defined)	0.810 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	1.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.04 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.810 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	4,383.242 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,384.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.20 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.49 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.54 hours
Total unit time, Tb	0.68 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.20 hours
Area (User Defined)	0.810 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	3.13 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.05 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.810 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	12,186.124 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,187.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.20 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.49 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.54 hours
Total unit time, Tb	0.68 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.030 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.55 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.030 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	11,016.674 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,018.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	29.18 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.030 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	5.53 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.53 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.030 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	17,690.138 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,691.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	29.18 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.030 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	9.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	9.57 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.030 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	31,477.060 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	31,479.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	29.18 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.04 hours
Flow (Peak, Computed)	0.24 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.23 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	978.394 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	978.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.38 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.29 hours
Total unit time, Tb	0.36 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.84 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.79 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	2,759.819 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,760.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.38 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.29 hours
Total unit time, Tb	0.36 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	2.45 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.31 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	7,672.745 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,672.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.38 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.29 hours
Total unit time, Tb	0.36 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.76 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.76 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	14,760.199 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,763.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	47.80 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.43 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.42 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	23,701.343 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	23,705.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	47.80 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.380 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	12.85 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	12.83 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	42,173.149 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	42,178.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	47.80 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	1.710 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	1.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.14 ft³/s

Drainage Area	
SCS CN (Composite)	65.000
Area (User Defined)	1.710 acres
Maximum Retention (Pervious)	5.4 in
Maximum Retention (Pervious, 20 percent)	1.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.7 in
Runoff Volume (Pervious)	4,346.158 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,347.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	15.22 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.34 hours
Total unit time, Tb	0.42 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	1.710 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	3.32 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	3.25 ft³/s

Drainage Area	
SCS CN (Composite)	65.000
Area (User Defined)	1.710 acres
Maximum Retention (Pervious)	5.4 in
Maximum Retention (Pervious, 20 percent)	1.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.8 in
Runoff Volume (Pervious)	11,098.658 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,101.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	15.22 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.34 hours
Total unit time, Tb	0.42 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	1.710 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	8.82 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	8.55 ft³/s

Drainage Area	
SCS CN (Composite)	65.000
Area (User Defined)	1.710 acres
Maximum Retention (Pervious)	5.4 in
Maximum Retention (Pervious, 20 percent)	1.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.6 in
Runoff Volume (Pervious)	28,762.783 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	28,769.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	15.22 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.34 hours
Total unit time, Tb	0.42 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.580 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.01 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.01 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.580 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	6,432.186 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,432.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.47 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.580 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.11 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.580 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	10,203.663 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,204.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.47 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.580 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	5.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.36 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.580 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	17,978.690 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,979.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.47 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.89 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.89 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	3,103.771 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,104.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.53 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.37 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.36 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	4,864.106 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,864.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.53 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.34 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	8,487.369 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,487.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.53 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.280 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.99 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.97 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	25,285.137 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	25,289.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	82.85 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.280 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	12.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	12.33 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	40,110.942 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	40,114.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	82.85 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.280 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	21.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	21.23 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	70,674.849 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	70,679.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	82.85 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.13 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.13 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	422.052 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	423.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.99 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.44 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.44 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,190.510 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,193.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.99 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.23 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.23 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	3,309.810 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,314.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.99 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.20 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.20 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	3,908.451 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,909.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.29 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.85 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.85 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	6,125.171 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,125.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.29 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.17 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	10,687.798 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,688.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.29 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.090 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.05 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	172.658 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	173.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.65 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.18 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	487.027 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	487.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.65 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.50 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.50 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,354.013 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,354.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.65 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.22 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	3,881.491 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,882.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.15 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.89 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.89 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	6,157.383 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,158.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.15 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.25 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	10,849.210 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,850.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.15 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.06 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	249.394 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	249.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.93 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.23 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.23 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	703.483 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	703.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.93 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.67 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.66 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,955.798 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,955.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.93 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.200 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.69 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.69 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.200 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	2,217.995 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,218.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.82 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.200 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.07 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.200 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	3,518.504 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,519.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.82 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.200 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.85 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.85 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.200 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	6,199.548 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,200.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.82 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.36 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	1,496.366 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,496.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.47 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	1.37 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.32 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	4,220.899 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,221.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.47 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	3.97 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.88 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	11,734.786 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,735.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.47 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.81 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.80 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	5,862.675 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,864.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	22.01 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.78 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.78 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	9,187.756 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,189.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	22.01 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.77 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.76 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	16,031.697 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,033.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	22.01 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.760 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.79 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.77 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.760 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	2,327.963 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,326.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	14.30 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.760 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	1.98 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.97 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.760 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.0 in
Runoff Volume (Pervious)	5,581.659 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,579.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	14.30 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.760 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.85 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.84 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.760 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	13,798.212 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,794.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	14.30 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.23 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.22 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	3,881.490 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,882.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	12.18 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.90 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.89 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	6,157.382 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,158.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	12.18 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.27 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.26 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	10,849.209 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,849.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	12.18 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	345.315 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	345.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.56 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.27 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.32 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.31 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	974.054 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	974.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.56 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.27 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.92 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.91 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	2,708.028 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,708.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.56 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.27 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.860 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.97 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.97 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	9,198.370 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,204.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	48.72 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.860 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.63 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	14,770.398 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,777.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	48.72 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.860 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	8.01 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	8.01 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	26,281.815 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	26,290.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	48.72 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.150 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	287.763 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	288.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.50 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.27 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	811.711 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	811.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.50 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.79 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.78 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	2,256.689 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,256.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.50 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.170 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.59 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.59 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	1,818.283 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,819.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.63 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.170 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.92 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.92 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	2,919.730 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,921.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.63 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.170 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.58 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.58 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	5,195.242 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,197.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.63 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.020 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.01 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.01 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.020 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	38.368 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	39.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.13 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.020 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.04 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.020 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	108.228 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	109.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.13 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.020 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.11 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.020 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	300.892 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	302.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.13 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.560 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.86 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.86 ft³/s

Drainage Area	
SCS CN (Composite)	94.000
Area (User Defined)	0.560 acres
Maximum Retention (Pervious)	0.6 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.7 in
Runoff Volume (Pervious)	5,566.256 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,569.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.57 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.560 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.96 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.96 ft³/s

Drainage Area	
SCS CN (Composite)	94.000
Area (User Defined)	0.560 acres
Maximum Retention (Pervious)	0.6 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.5 in
Runoff Volume (Pervious)	9,158.546 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,161.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.57 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.560 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	5.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.17 ft³/s

Drainage Area	
SCS CN (Composite)	94.000
Area (User Defined)	0.560 acres
Maximum Retention (Pervious)	0.6 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.2 in
Runoff Volume (Pervious)	16,622.887 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,626.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.57 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.12 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.11 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	422.052 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	422.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.54 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.40 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.39 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,190.510 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,190.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.54 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	1.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.14 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	3,309.811 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,309.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.54 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.46 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	1,494.406 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,495.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.36 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.71 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.71 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	2,341.976 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,343.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.36 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.22 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	4,086.511 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,087.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.36 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.14 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	490.098 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	490.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.89 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.38 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.37 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.0 in
Runoff Volume (Pervious)	1,175.086 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,175.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.89 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.95 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.92 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	2,904.887 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,905.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.89 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.71 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.71 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.8 in
Runoff Volume (Pervious)	2,165.625 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,167.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.71 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.12 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.12 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.6 in
Runoff Volume (Pervious)	3,520.072 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,521.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.71 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.95 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.95 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.3 in
Runoff Volume (Pervious)	6,325.671 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,327.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.71 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.030 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.02 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.02 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.030 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	57.553 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	58.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.53 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.030 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.06 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.030 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	162.342 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	163.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.53 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.030 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.17 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.030 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	451.338 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	453.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.53 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.810 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	5.97 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.93 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.810 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	19,359.403 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	19,359.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	27.44 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.810 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	9.32 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	9.27 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.810 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	31,086.552 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	31,087.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	27.44 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.810 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	16.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	16.05 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.810 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	55,314.054 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	55,315.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	27.44 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.690 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.33 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.31 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	1,323.708 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,324.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.95 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	1.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.10 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	3,733.873 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,734.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.95 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	3.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.26 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	10,380.771 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,381.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.95 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.310 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.08 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	3,437.891 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,438.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.37 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.68 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.68 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	5,453.681 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,454.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.37 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.89 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.89 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	9,609.300 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,610.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.37 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.06 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	249.394 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	249.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.39 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.20 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	703.483 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	703.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.39 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.60 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,955.798 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,956.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.39 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.28 hours
Total unit time, Tb	0.35 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.530 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.82 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.81 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.530 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	5,877.687 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,877.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.99 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.530 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.81 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.81 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.530 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	9,324.037 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,323.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.99 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.530 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.85 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.84 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.530 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	16,428.803 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,428.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.99 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	0.300 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.11 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	575.525 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	576.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.76 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	0.40 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.39 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,623.423 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,624.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.76 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	1.19 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.16 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	4,513.379 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,514.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.76 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.210 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.69 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.68 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	2,246.119 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,246.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.06 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	1.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.07 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	3,606.727 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,607.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.06 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	1.86 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.85 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	6,417.653 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,417.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.06 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.04 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	172.658 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	173.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.04 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.14 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	487.027 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	487.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.04 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.44 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.43 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,354.013 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,354.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.04 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.04 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	3,326.993 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,327.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.30 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.61 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.61 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	5,277.757 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,277.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.30 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.78 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.78 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	9,299.323 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,299.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.30 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.180 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	345.315 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	345.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.84 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.33 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.32 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	974.054 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	974.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.84 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.94 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.93 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	2,708.027 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,708.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.84 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.31 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	4,064.396 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,067.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.05 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	6,526.455 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,529.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.54 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.54 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	11,612.895 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,616.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.07 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	249.394 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	249.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.50 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.14 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.25 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	703.483 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	703.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.50 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.14 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.72 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,955.797 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,956.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.50 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.14 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.26 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	3,992.391 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,993.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.83 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.95 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.94 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	6,333.308 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,333.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.83 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.35 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	11,159.187 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,159.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.83 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.120 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.05 hours
Flow (Peak, Computed)	0.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.05 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	230.210 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	230.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.04 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.35 hours
Total unit time, Tb	0.44 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.04 hours
Flow (Peak, Computed)	0.19 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.18 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	649.369 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	649.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.04 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.35 hours
Total unit time, Tb	0.44 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.04 hours
Flow (Peak, Computed)	0.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.53 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,805.352 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,806.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.04 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.35 hours
Total unit time, Tb	0.44 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.305 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.05 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.305 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	3,382.443 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,382.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.08 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.305 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.62 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.305 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	5,365.719 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,365.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.08 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.305 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.80 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.80 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.305 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	9,454.311 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,454.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.08 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.08 hours
Flow (Peak, Computed)	0.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.33 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.6 in
Runoff Volume (Pervious)	1,598.285 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,599.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.45 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.49 hours
Total unit time, Tb	0.61 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.08 hours
Flow (Peak, Computed)	1.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.08 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.6 in
Runoff Volume (Pervious)	4,278.492 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,280.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.45 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.49 hours
Total unit time, Tb	0.61 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.05 hours
Flow (Peak, Computed)	3.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	3.06 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.4 in
Runoff Volume (Pervious)	11,470.768 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,474.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.45 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.49 hours
Total unit time, Tb	0.61 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.52 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	7,984.780 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,986.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	25.42 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.90 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.90 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	12,666.615 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,668.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	25.42 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	6.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	6.72 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	22,318.374 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	22,321.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	25.42 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.04 hours
Flow (Peak, Computed)	0.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.36 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	1,573.103 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,573.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.53 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.33 hours
Total unit time, Tb	0.41 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.04 hours
Flow (Peak, Computed)	1.29 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.26 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	4,437.356 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,437.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.53 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.33 hours
Total unit time, Tb	0.41 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	3.77 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	3.65 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	12,336.569 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,336.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.53 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.33 hours
Total unit time, Tb	0.41 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.10 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	3,422.655 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,423.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.18 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.72 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	5,495.964 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,497.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.18 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.98 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.98 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	9,779.280 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,781.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.18 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.370 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.04 hours
Flow (Peak, Computed)	0.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.16 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	709.815 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	710.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.49 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.32 hours
Total unit time, Tb	0.40 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.370 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.59 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.57 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	2,002.221 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,002.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.49 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.32 hours
Total unit time, Tb	0.40 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.370 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	1.73 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.65 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	5,566.500 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,566.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.49 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.32 hours
Total unit time, Tb	0.40 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.07 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	3,315.698 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,316.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.87 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.67 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.66 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	5,324.215 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,325.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.87 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.88 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	9,473.678 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,474.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.87 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.05 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	191.842 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	192.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.59 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.18 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	541.141 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	541.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.59 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.52 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,504.460 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,504.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.59 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	2.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.41 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	2.090 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	24,025.457 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	24,034.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	118.40 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	2.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	11.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	11.39 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	2.090 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	37,651.775 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	37,662.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	118.40 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	2.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	19.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	19.55 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	2.090 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	65,698.520 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	65,713.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	118.40 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.410 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.34 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.410 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	1,182.454 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,182.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.25 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.410 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.96 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.93 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.410 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.9 in
Runoff Volume (Pervious)	2,892.743 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,893.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.25 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.410 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	2.42 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.36 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.410 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.9 in
Runoff Volume (Pervious)	7,261.210 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,261.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.25 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.080 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.05 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	2.080 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.8 in
Runoff Volume (Pervious)	21,450.021 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,457.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	82.32 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.080 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	11.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	11.07 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	2.080 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.6 in
Runoff Volume (Pervious)	34,865.479 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	34,872.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	82.32 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.080 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	19.30 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	19.26 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	2.080 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.3 in
Runoff Volume (Pervious)	62,654.271 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	62,660.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	82.32 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.280 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	537.157 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	537.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.11 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.17 hours
Total unit time, Tb	0.21 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.280 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.51 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,515.195 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,514.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.11 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.17 hours
Total unit time, Tb	0.21 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.280 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.49 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.48 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	4,212.487 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,211.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.11 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.17 hours
Total unit time, Tb	0.21 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.840 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.90 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.90 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	8,984.455 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,990.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	47.59 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.52 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	14,426.900 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,433.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	47.59 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.82 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.82 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	25,670.610 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	25,678.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	47.59 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.080 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.04 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.080 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	153.473 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	153.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.17 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.080 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.14 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.080 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	432.913 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	433.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.17 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.080 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	0.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.41 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.080 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,203.568 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,203.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.17 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	5.37 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.37 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	16,792.410 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,791.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	37.03 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	8.38 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	8.37 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	26,964.576 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	26,963.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	37.03 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	14.50 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	14.48 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	47,979.598 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	47,977.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	37.03 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	1.23 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.20 ft³/s

Drainage Area	
SCS CN (Composite)	69.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	4.5 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.9 in
Runoff Volume (Pervious)	5,098.605 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,098.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.34 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	3.13 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	3.06 ft³/s

Drainage Area	
SCS CN (Composite)	69.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	4.5 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	11,990.558 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,990.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.34 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.07 hours
Flow (Peak, Computed)	7.71 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	7.58 ft³/s

Drainage Area	
SCS CN (Composite)	69.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	4.5 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.1 in
Runoff Volume (Pervious)	29,203.506 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	29,202.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.34 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	1.020 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.50 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.50 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.020 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	11,311.775 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,311.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	19.64 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	1.020 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	5.42 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.41 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.020 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	17,944.371 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,943.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	19.64 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	1.020 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	9.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	9.33 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.020 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	31,617.694 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	31,615.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	19.64 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	1.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.08 hours
Flow (Peak, Computed)	1.80 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.76 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	1.840 acres
Maximum Retention (Pervious)	3.9 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	7,053.559 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,054.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.14 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.50 hours
Total unit time, Tb	0.62 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	1.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.08 hours
Flow (Peak, Computed)	4.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	4.13 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	1.840 acres
Maximum Retention (Pervious)	3.9 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.4 in
Runoff Volume (Pervious)	15,716.160 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,717.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.14 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.50 hours
Total unit time, Tb	0.62 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	1.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.05 hours
Flow (Peak, Computed)	9.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	9.68 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	1.840 acres
Maximum Retention (Pervious)	3.9 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.5 in
Runoff Volume (Pervious)	36,685.209 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	36,686.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.14 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.50 hours
Total unit time, Tb	0.62 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	1.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.62 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	5,434.088 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,434.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.06 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	2.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.51 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	8,620.337 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,620.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.06 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.01 hours
Flow (Peak, Computed)	4.35 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.32 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	15,188.893 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,188.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	7.06 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.10 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	422.052 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	422.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.58 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.37 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.35 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,190.510 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,190.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.58 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	1.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.05 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	3,309.811 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,310.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.58 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	1.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.56 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.56 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	14,118.429 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,128.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	74.78 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	1.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.11 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	22,670.843 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	22,681.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	74.78 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	1.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	12.29 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	12.29 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	40,339.530 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	40,352.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	74.78 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.10 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	441.236 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	441.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.65 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.36 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,244.624 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,244.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.65 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	1.13 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	3,460.257 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,460.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.65 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.84 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.84 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	5,977.631 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,978.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	18.67 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.83 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	9,367.908 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,368.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	18.67 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.86 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.85 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	16,346.044 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,346.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	18.67 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.060 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.05 hours
Flow (Peak, Computed)	0.03 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.03 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	115.105 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	115.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.52 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.35 hours
Total unit time, Tb	0.44 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.060 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	324.685 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	325.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.52 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.35 hours
Total unit time, Tb	0.44 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.060 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.27 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	902.676 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	903.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.52 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.35 hours
Total unit time, Tb	0.44 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.400 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.96 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.96 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.400 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	16,093.619 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,096.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	52.09 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.400 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	7.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	7.62 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.400 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	25,221.291 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	25,224.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	52.09 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.400 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	13.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	13.08 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.400 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	44,008.582 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	44,012.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	52.09 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.16 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.06 hours
Flow (Peak, Computed)	0.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.05 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	230.210 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	230.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.16 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.86 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.42 hours
Total unit time, Tb	0.53 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.16 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.06 hours
Flow (Peak, Computed)	0.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.17 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	649.369 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	649.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.16 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.86 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.42 hours
Total unit time, Tb	0.53 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.16 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.06 hours
Flow (Peak, Computed)	0.51 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.51 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	1,805.352 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,805.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.16 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.86 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.42 hours
Total unit time, Tb	0.53 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.000 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.54 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.54 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.000 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	11,495.442 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,497.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	35.49 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.000 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	5.45 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	5.45 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.000 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	18,015.208 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	18,017.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	35.49 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.000 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	9.35 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	9.35 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.000 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	31,434.700 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	31,438.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	35.49 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.400 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.38 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	4,435.990 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,436.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	8.77 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.14 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	7,037.009 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,037.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	8.77 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.69 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.69 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.5 in
Runoff Volume (Pervious)	12,399.096 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,400.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	8.77 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.210 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.04 hours
Flow (Peak, Computed)	0.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	402.868 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	403.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.11 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.30 hours
Total unit time, Tb	0.38 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.32 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,136.396 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,136.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.11 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.30 hours
Total unit time, Tb	0.38 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	1.00 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.93 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	3,159.365 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,159.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.11 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.30 hours
Total unit time, Tb	0.38 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.69 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.69 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	5,240.938 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,242.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	20.80 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.64 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.63 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.7 in
Runoff Volume (Pervious)	8,415.694 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,417.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	20.80 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	4.56 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.55 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.4 in
Runoff Volume (Pervious)	14,974.524 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,976.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	20.80 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.150 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.07 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	287.762 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	288.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.79 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.24 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	811.711 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	812.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.79 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.150 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	0.74 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.72 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	2,256.690 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,257.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.79 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	2.12 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.96 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.6 in
Runoff Volume (Pervious)	8,039.069 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,037.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	46.97 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	7.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	6.68 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.6 in
Runoff Volume (Pervious)	22,074.669 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	22,072.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	46.97 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	19.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	19.26 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.3 in
Runoff Volume (Pervious)	60,247.789 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	60,242.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	46.97 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	1.060 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.03 hours
Flow (Peak, Computed)	0.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	0.42 ft³/s

Drainage Area	
SCS CN (Composite)	60.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	6.7 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	1,881.799 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,881.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.29 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	1.060 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	1.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.64 ft³/s

Drainage Area	
SCS CN (Composite)	60.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	6.7 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.4 in
Runoff Volume (Pervious)	5,461.603 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,461.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.29 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	1.060 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.02 hours
Flow (Peak, Computed)	5.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	4.99 ft³/s

Drainage Area	
SCS CN (Composite)	60.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	6.7 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.0 in
Runoff Volume (Pervious)	15,478.006 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,476.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	13.29 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	3.640 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.82 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	3.640 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.4 in
Runoff Volume (Pervious)	5,474.982 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,475.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	3.640 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.08 hours
Flow (Peak, Computed)	4.03 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.92 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	3.640 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.3 in
Runoff Volume (Pervious)	16,918.018 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,916.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.19 hours
Area (User Defined)	3.640 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.08 hours
Flow (Peak, Computed)	13.02 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	12.82 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	3.640 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.8 in
Runoff Volume (Pervious)	49,935.340 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	49,931.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.19 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.13 hours
Unit receding limb, Tr	0.51 hours
Total unit time, Tb	0.64 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.06 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	3,448.633 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,449.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.90 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.63 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	5,404.562 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,405.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.90 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.81 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.80 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	9,430.409 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,431.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.90 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	12.760 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.08 hours
Flow (Peak, Computed)	30.65 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	30.42 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	12.760 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	146,681.939 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	146,683.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	57.60 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.84 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	12.760 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.08 hours
Flow (Peak, Computed)	47.20 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	46.84 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	12.760 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	229,874.038 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	229,876.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	57.60 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.84 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	12.760 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.08 hours
Flow (Peak, Computed)	81.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	80.45 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	12.760 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	401,106.794 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	401,110.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	57.60 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.84 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	1.310 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.72 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	1.310 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.7 in
Runoff Volume (Pervious)	3,550.384 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,551.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.94 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	1.310 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.05 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	1.310 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.9 in
Runoff Volume (Pervious)	8,869.814 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,870.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.94 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	1.310 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.40 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.40 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	1.310 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.8 in
Runoff Volume (Pervious)	22,617.392 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	22,618.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.94 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.35 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.34 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	4,368.267 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,369.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	16.66 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	2.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	2.07 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	6,845.778 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,847.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	16.66 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	3.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	3.55 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	8.7 in
Runoff Volume (Pervious)	11,945.186 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,946.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	16.66 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Storm Event	2yr current
Return Event	2 years
Duration	48.00 hours
Depth	3.4 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.260 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.16 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	498.789 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	504.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	14.73 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Storm Event	10 yr current
Return Event	10 years
Duration	48.00 hours
Depth	5.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.260 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	0.53 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	0.53 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.5 in
Runoff Volume (Pervious)	1,406.966 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,417.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	14.73 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Storm Event	100yr current
Return Event	100 years
Duration	48.00 hours
Depth	8.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.260 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.00 hours
Flow (Peak, Computed)	1.47 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.00 hours
Flow (Peak Interpolated Output)	1.47 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	3,911.592 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,928.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

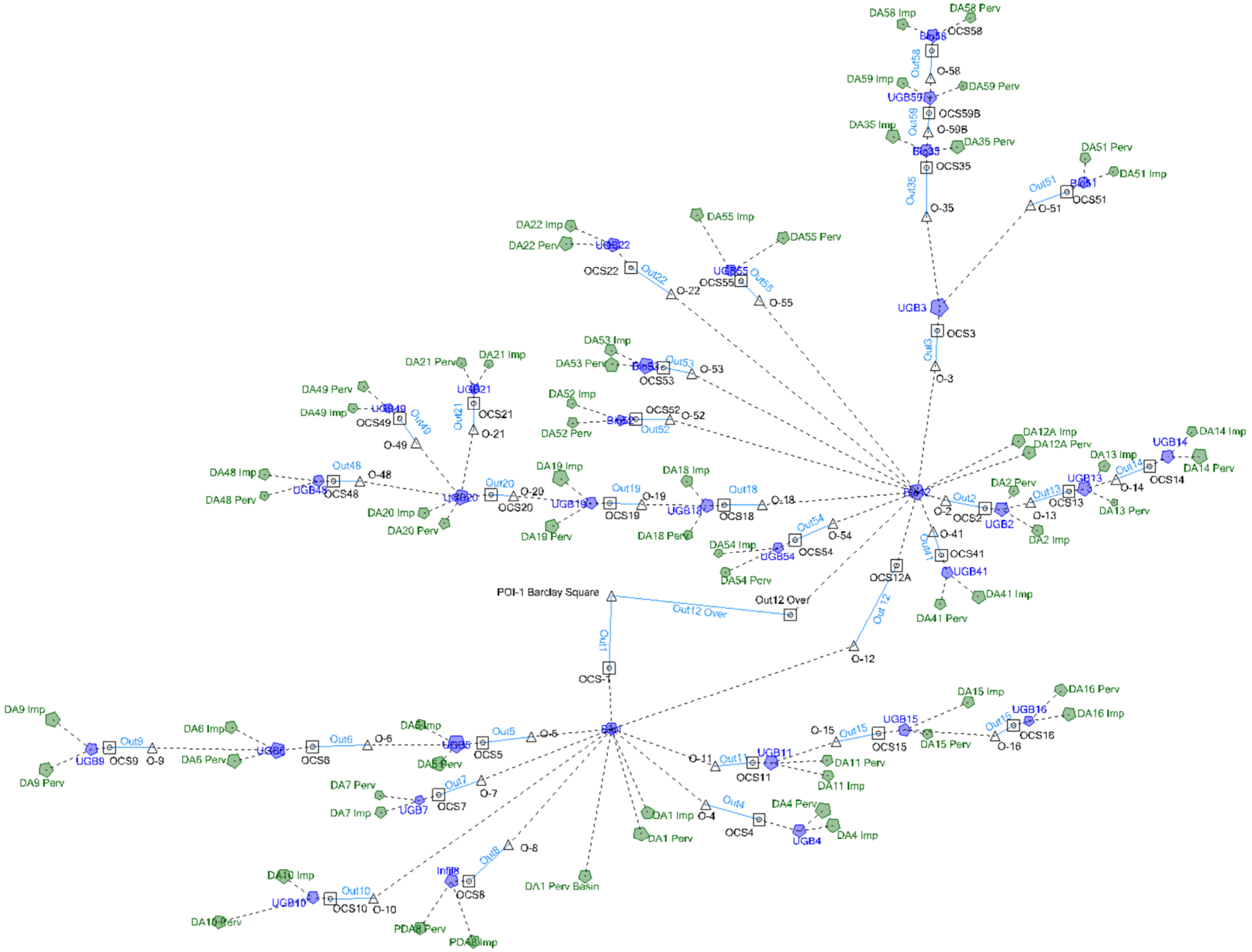
Post Developed Hydrographs Current Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

SCS Unit Hydrograph Parameters	
Unit peak, qp	14.73 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

POST-DEVELOPED
PROJECTED RAINFALL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OCS2
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O-54
UGB54
OCS54
DA54 Perv
O-41
Out41
OCS41
UGB41
DA41 Imp
DA41 Perv
OCS12A
POI-1 Barclay Square
Out12 Over
Out12
O-12
Out1
OCS-1
DA9 Imp
DA9 Perv
Out9
UGB9
OCS9
O-9
DA6 Imp
DA6 Perv
Out6
UGB6
OCS6
O-6
DA5 Imp
DA5 Perv
Out5
UGB5
OCS5
O-5
DA7 Perv
DA7 Imp
Out7
UGB7
OCS7
O-7
DA1 Imp
DA1 Perv
DA1 Perv Basin
O-4
Out4
OCS4
UGB4
DA4 Perv
DA4 Imp
O-11
Out11
UGB11
OCS11
DA11 Perv
DA11 Imp
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Out15
UGB15
OCS15
DA15 Imp
DA15 Perv
UGB16
DA16 Perv
DA16 Imp
Out16
OCS16
O-16
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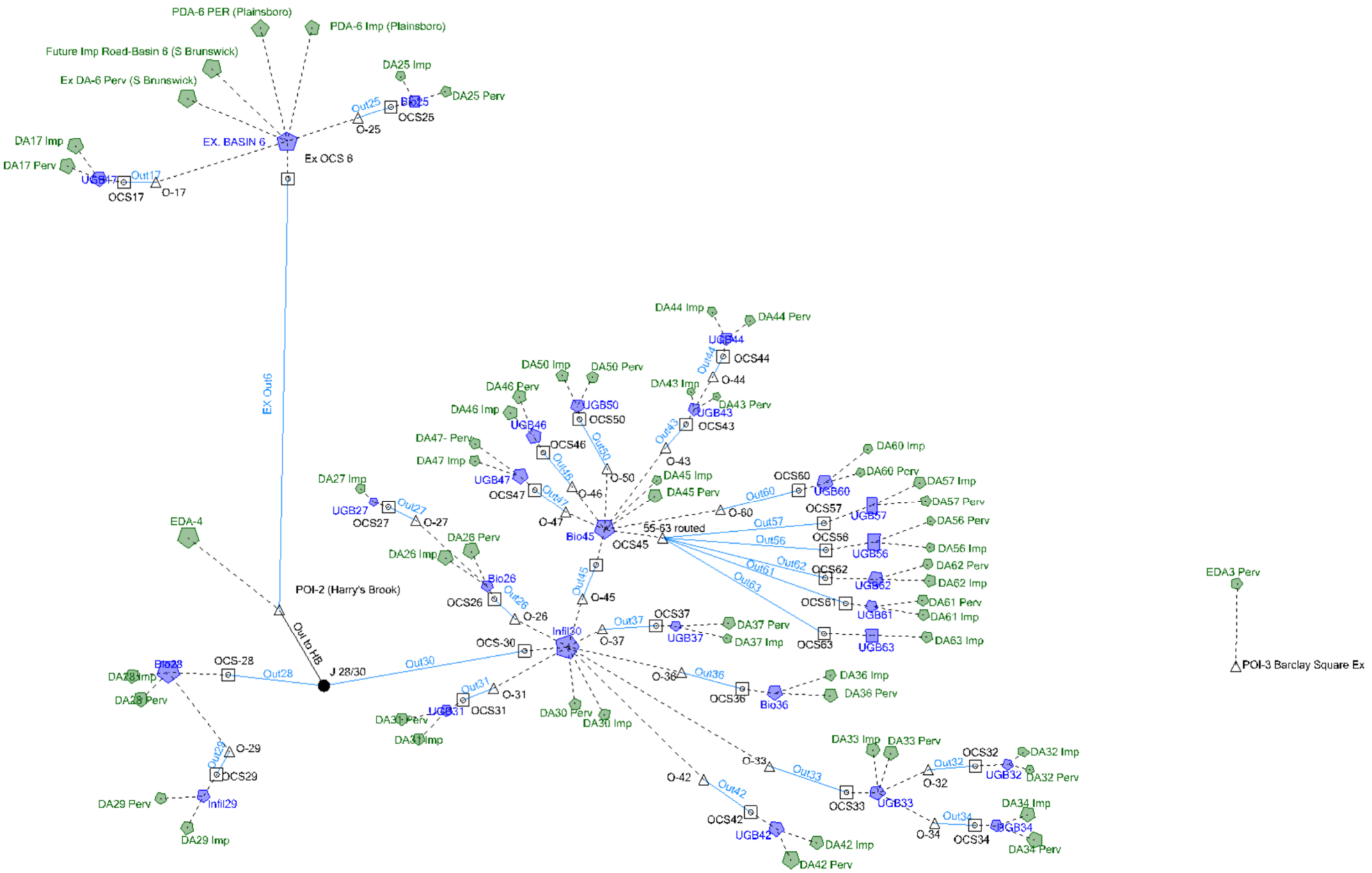
O-8
OCS8
PDA8 Perv
PDA8 Imp


PDA-6 PER (Plainsboro)
PDA-6 Imp (Plainsboro)
Future Imp Road-Basin 6 (S Brunswick)
Ex DA-6 Perv (S Brunswick)
DA25 Imp
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Out25
Bio25
OCS25
O-25
DA17 Imp
DA17 Perv
EX. BASIN 6
Ex OCS 6
UGB17
Out17
OCS17
O-17
EX Out6
DA44 Imp
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UGB44
OCS44
Out44
O-44
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DA43 Imp
DA43 Perv
DA46 Perv
DA46 Imp
UGB50
OCS50
UGB43
OCS43
UGB46
OCS46
Out50
Out43
DA47- Perv
DA47 Imp
O-43
Out45
O-50
DA45 Imp
DA45 Perv
DA27 Imp
UGB47
OCS47
Out47
O-46
O-47
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OCS27
O-27
Bio45
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DA60 Perv
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OCS57
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OCS56
UGB56
Out56
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DA62 Imp
Out62
OCS62
UGB62
Out61
Out63
DA61 Perv
DA61 Imp
OCS61
UGB61
DA63 Imp
OCS63
UGB63
EDA-4
DA26 Perv
DA26 Imp
Bio26
OCS26
Out26
O-26
Out45
O-45
POI-2 (Harry's Brook)
Out to HB
J 28/30
Out30
Infil30
O-37
Out37
OCS37
UGB37
DA37 Perv
DA37 Imp
OCS-30
O-36
Out36
OCS36
Bio36
DA36 Imp
DA36 Perv
Out31
O-31
UGB31
OCS31
DA30 Perv
DA30 Imp
DA31 Perv
DA31 Imp
Bio28
DA28 Imp
DA28 Perv
OCS-28
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DA33 Imp
DA33 Perv
OCS32
DA32 Imp
Out32
O-32
UGB32
DA32 Perv
O-42
Out42
OCS33
UGB33
DA34 Imp
Out34
O-34
OCS34
UGB34
DA34 Perv
OCS42
UGB42
DA42 Imp
DA42 Perv
EDA3 Perv
POI-3 Barclay Square Ex

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA1 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.390	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.040	0.0	0.0	90.000
Impervious non vehicular	98.000	0.040	0.0	0.0	98.000
Impervious roof	98.000	0.070	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.540	(N/A)	(N/A)	97.407

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA1 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.530	0.0	0.0	61.000
Grass C soils	74.000	0.310	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	65.798

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA1 Perv Basin
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.140	0.0	0.0	61.000
Grass C soil	74.000	0.130	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.270	(N/A)	(N/A)	67.259

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA10 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.150	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.010	0.0	0.0	90.000
Impervious non vehicular	98.000	0.100	0.0	0.0	98.000
Impervious roof	98.000	0.530	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.790	(N/A)	(N/A)	97.899

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA10 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.240	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.240	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA11 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.150	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.130	0.0	0.0	90.000
Impervious non vehicula	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.610	(N/A)	(N/A)	96.295

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA11 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.180	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.180	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA12A Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Roof	98.000	0.360	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.360	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA12A Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass basin area C soils	74.000	0.170	0.0	0.0	74.000
Grass B soils	61.000	2.090	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.260	(N/A)	(N/A)	61.978

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA13 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.090	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.110	0.0	0.0	90.000
Impervious non vehicular	98.000	0.010	0.0	0.0	98.000
Impervious roof	98.000	0.130	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.340	(N/A)	(N/A)	95.412

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA13 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.040	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.040	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA14 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.090	0.0	0.0	90.000
Impervious non vehicular	98.000	0.040	0.0	0.0	98.000
Impervious roof	98.000	0.100	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.330	(N/A)	(N/A)	95.818

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA14 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.070	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.070	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA15 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.240	0.0	0.0	98.000
Impervious non vehicular	98.000	0.090	0.0	0.0	98.000
Impervious roof	98.000	0.470	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.040	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	97.619

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA15 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.820	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.820	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA16 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vevicular	98.000	0.540	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.240	0.0	0.0	90.000
Impervious roof	98.000	0.570	0.0	0.0	98.000
Impervious non vehicular	98.000	0.130	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.480	(N/A)	(N/A)	96.703

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA16 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.870	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.870	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA17 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.170	0.0	0.0	98.000
Impervious non vehicular	98.000	0.460	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.220	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.850	(N/A)	(N/A)	95.929

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA17 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.120	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.120	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA18 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.260	0.0	0.0	98.000
Impervious non vehicular	98.000	0.120	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.110	0.0	0.0	90.000
Impervious Roof	98.000	0.290	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.780	(N/A)	(N/A)	96.872

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA18 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.370	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.370	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA19 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.110	0.0	0.0	98.000
Impervious non vehicular	98.000	0.140	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.100	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.350	(N/A)	(N/A)	95.714

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA19 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.100	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.100	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA2 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.280	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.140	0.0	0.0	90.000
Impervious non vehicular	98.000	0.120	0.0	0.0	98.000
Impervious roof	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	96.667

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA2 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.870	0.0	0.0	61.000
Grass C soils	74.000	0.050	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.920	(N/A)	(N/A)	61.707

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA20 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.070	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.070	0.0	0.0	90.000
Impervious non vehicular	98.000	0.090	0.0	0.0	98.000
Impervious roof	98.000	0.460	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.690	(N/A)	(N/A)	97.188

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA20 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.400	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.400	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA21 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.160	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.120	0.0	0.0	90.000
Impervious non vehicular	98.000	0.040	0.0	0.0	98.000
Impervious roof	98.000	0.200	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.520	(N/A)	(N/A)	96.154

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA21 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.230	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.230	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA22 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.170	0.0	0.0	98.000
Impervious non vehicular	98.000	0.290	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.220	0.0	0.0	90.000
Impervious roof	98.000	0.150	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.830	(N/A)	(N/A)	95.880

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA22 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.380	0.0	0.0	61.000
Grass C soil	74.000	0.070	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.450	(N/A)	(N/A)	63.022

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA25 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	1.240	0.0	0.0	98.000
Impervious Non Vehicular	98.000	0.260	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.430	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.930	(N/A)	(N/A)	96.218

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA25 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.190	0.0	0.0	61.000
Grass C soils	74.000	0.030	0.0	0.0	74.000
Basin area	61.000	1.260	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.480	(N/A)	(N/A)	61.264

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA26 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.520	0.0	0.0	98.000
Impervious non vehicular	98.000	0.110	0.0	0.0	98.000
Impervious roof	98.000	0.550	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.410	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.590	(N/A)	(N/A)	95.937

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA26 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.750	0.0	0.0	61.000
Basin Area	61.000	0.440	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.190	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA28 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.380	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.150	0.0	0.0	90.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious roof	98.000	0.290	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.900	(N/A)	(N/A)	96.667

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA28 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.400	0.0	0.0	61.000
Basin area B soils	61.000	0.410	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.810	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA29 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.240	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.220	0.0	0.0	90.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious roof	98.000	0.490	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.030	(N/A)	(N/A)	96.291

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA29 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.450	0.0	0.0	61.000
Basin Area B soil	61.000	0.060	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.510	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA30 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.460	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.270	0.0	0.0	90.000
Impervious non vehicular	98.000	0.150	0.0	0.0	98.000
Impervious roof	98.000	0.500	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.380	(N/A)	(N/A)	96.435

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA30 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.430	0.0	0.0	61.000
Grass C soils	74.000	0.250	0.0	0.0	74.000
Grass Basin area B soil	61.000	0.740	0.0	0.0	61.000
Grass Basin area C soil	74.000	0.290	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.710	(N/A)	(N/A)	65.105

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA31 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.250	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.050	0.0	0.0	90.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious roof	98.000	0.200	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.580	(N/A)	(N/A)	97.310

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA31 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	98.000	0.270	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.270	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA32 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.700	0.0	0.0	98.000
Impervious non vehicular	98.000	0.200	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.250	0.0	0.0	90.000
Impervious roof	98.000	1.130	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.280	(N/A)	(N/A)	97.123

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA32 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.220	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.220	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA33 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.090	0.0	0.0	98.000
Impervious porous asphalt	98.000	0.060	0.0	0.0	98.000
Impervious roof	98.000	0.160	0.0	0.0	98.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.340	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA33 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.090	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.090	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA34 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious non-vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.160	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.060	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.350	(N/A)	(N/A)	96.629

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA34 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.130	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.130	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA35 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.020	0.0	0.0	90.000
Impervious roof	98.000	0.060	0.0	0.0	98.000
Impervious	98.000	0.020	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.200	(N/A)	(N/A)	97.200

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA35 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.550	0.0	0.0	61.000
Grass Basin B soils	61.000	0.230	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.780	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA36 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.130	0.0	0.0	98.000
Impervious non vehicular	98.000	0.310	0.0	0.0	98.000
Impervious roof	98.000	0.070	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.510	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA36 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.290	0.0	0.0	61.000
Grass C soil	74.000	0.400	0.0	0.0	74.000
Basin Area B soils	61.000	0.040	0.0	0.0	61.000
Basin Area C soils	74.000	0.030	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.760	(N/A)	(N/A)	68.355

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA37 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious non vehicular	98.000	0.060	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.050	0.0	0.0	90.000
Imperviousd roof	98.000	0.140	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.350	(N/A)	(N/A)	96.857

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA37 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grasss B soil	61.000	0.180	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.180	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA4 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.330	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.210	0.0	0.0	90.000
Impervious non vehicular	98.000	0.020	0.0	0.0	98.000
Impervious roof	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.860	(N/A)	(N/A)	96.047

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA4 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.150	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.150	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA41 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.050	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.050	0.0	0.0	90.000
Impervious non vehicular	98.000	0.010	0.0	0.0	98.000
Impervious roof	98.000	0.060	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.170	(N/A)	(N/A)	95.647

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA41 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.020	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.020	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA42 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.080	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.250	0.0	0.0	90.000
Impervious roof	98.000	0.210	0.0	0.0	98.000
Impervious non vehicular	98.000	0.020	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.560	(N/A)	(N/A)	94.429

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA42 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.220	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.220	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA43 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious roof	98.000	0.100	0.0	0.0	98.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.130	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA43 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.080	0.0	0.0	61.000
Grass C soil	74.000	0.080	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.160	(N/A)	(N/A)	67.500

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA44 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious porous asphalt	90.000	0.090	0.0	0.0	90.000
Impervious roof	98.000	0.110	0.0	0.0	98.000
Impervious non Vehicular	98.000	0.010	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.210	(N/A)	(N/A)	94.571

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA44 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.030	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.030	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA45 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.700	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.420	0.0	0.0	90.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious roof	98.000	0.610	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.810	(N/A)	(N/A)	96.144

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA45 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Basin Area Grass B soil	61.000	0.470	0.0	0.0	61.000
Grass B soil	61.000	0.220	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.690	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA46 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.140	0.0	0.0	98.000
Impervious porous	90.000	0.040	0.0	0.0	90.000
Impervious roof	98.000	0.060	0.0	0.0	98.000
Impervious non vehicular	98.000	0.070	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.310	(N/A)	(N/A)	96.968

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA46 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.130	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.130	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA47 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.270	0.0	0.0	98.000
Impervious non vehicular	98.000	0.100	0.0	0.0	98.000
Impervious roof	98.000	0.090	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.070	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.530	(N/A)	(N/A)	96.943

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA47- Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.300	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.300	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA48 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.060	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.050	0.0	0.0	90.000
Impervious non vehicular	98.000	0.010	0.0	0.0	98.000
Impervious roof	98.000	0.090	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.210	(N/A)	(N/A)	96.095

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA48 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.090	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.090	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA49 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.090	0.0	0.0	98.000
Imperious porous asphalt	90.000	0.030	0.0	0.0	90.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.150	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.300	(N/A)	(N/A)	97.200

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA49 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.180	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.180	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA5 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.110	0.0	0.0	98.000
Impervious non vehicular	98.000	0.170	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.100	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.380	(N/A)	(N/A)	95.895

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA5 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.130	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.130	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA50 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.200	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.030	0.0	0.0	90.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.100	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.360	(N/A)	(N/A)	97.333

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA50 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.120	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.120	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA51 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.160	0.0	0.0	98.000
Impervious roof	98.000	0.090	0.0	0.0	98.000
Impervious non vehicular	98.000	0.020	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.035	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.305	(N/A)	(N/A)	97.082

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA51 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.420	0.0	0.0	61.000
Grass Basin B soil	61.000	0.200	0.0	0.0	61.000
Grass C soil	74.000	0.100	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.720	(N/A)	(N/A)	62.806

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA52 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.300	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.080	0.0	0.0	90.000
Impervious non vehicular	98.000	0.060	0.0	0.0	98.000
Impervious roof	98.000	0.280	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.720	(N/A)	(N/A)	97.111

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA52 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.820	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.820	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA53 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.090	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.060	0.0	0.0	90.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.140	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.320	(N/A)	(N/A)	96.500

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA53 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.370	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.370	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA54 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.100	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.070	0.0	0.0	90.000
Impervious non vehicular	98.000	0.030	0.0	0.0	98.000
Impervious roof	98.000	0.110	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.310	(N/A)	(N/A)	96.194

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA54 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.100	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.100	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA55 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious non vehicular	98.000	0.270	0.0	0.0	98.000
Impervious roof	98.000	0.470	0.0	0.0	98.000
Impervious vehicular	98.000	1.050	0.0	0.0	98.000
impervious porous asphalt	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.090	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA55 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.210	0.0	0.0	61.000
Grass C soils	74.000	0.200	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.410	(N/A)	(N/A)	67.341

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA56 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious roof	98.000	0.220	0.0	0.0	98.000
Impervious vehicular	98.000	0.930	0.0	0.0	98.000
Impervious non vehicular	98.000	0.090	0.0	0.0	98.000
Impervious Porous asphalt	90.000	0.840	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	2.080	(N/A)	(N/A)	94.769

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA56 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.280	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.280	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA57 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.440	0.0	0.0	98.000
Impervious Roof	98.000	0.090	0.0	0.0	98.000
Impervious non vehicular	98.000	0.080	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.230	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	95.810

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA57 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.080	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.080	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA58 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	1.070	0.0	0.0	98.000
Impervious Non Vehicular	98.000	0.040	0.0	0.0	98.000
Impervious Porous Asphalt	90.000	0.460	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.570	(N/A)	(N/A)	95.656

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA58 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass Basin C soils	74.000	0.640	0.0	0.0	74.000
Grass C soils	74.000	0.360	0.0	0.0	74.000
Grass B soils	61.000	0.570	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.570	(N/A)	(N/A)	69.280

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA59 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.350	0.0	0.0	98.000
Impervious roof	98.000	0.400	0.0	0.0	98.000
Impervious non vehicular	98.000	0.150	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.120	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.020	(N/A)	(N/A)	97.059

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA59 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.350	0.0	0.0	61.000
Grass C soil	74.000	1.090	0.0	0.0	74.000
Grass C Basin Area	74.000	0.400	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.840	(N/A)	(N/A)	71.527

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA6 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.160	0.0	0.0	98.000
Impervious non vehicular	98.000	0.260	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.070	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.490	(N/A)	(N/A)	96.857

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA6 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soils	61.000	0.220	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.220	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA60 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.500	0.0	0.0	98.000
Impervious Roof	98.000	0.360	0.0	0.0	98.000
Impervious non vehicular	98.000	0.150	0.0	0.0	98.000
Impervious Porous Asphalt	90.000	0.310	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.320	(N/A)	(N/A)	96.121

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA60 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.230	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.230	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA61 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.520	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.520	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA61 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.060	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.060	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA62 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	1.270	0.0	0.0	98.000
Impervious non vehicular	98.000	0.130	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.400	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA62 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.120	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.120	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA63 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Roof	98.000	0.670	0.0	0.0	98.000
Impervious Vehicular	98.000	0.330	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.000	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA7 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Vehicular	98.000	0.230	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.030	0.0	0.0	90.000
Impervious non vehicular	98.000	0.140	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.400	(N/A)	(N/A)	97.400

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA7 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.210	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.210	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA9 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular	98.000	0.210	0.0	0.0	98.000
Impervious porous asphalt	90.000	0.110	0.0	0.0	90.000
Impervious non vehicular	98.000	0.020	0.0	0.0	98.000
Impervius roof	98.000	0.150	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.490	(N/A)	(N/A)	96.204

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: DA9 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.150	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.150	(N/A)	(N/A)	61.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: EDA3 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil B	61.000	2.840	0.0	0.0	61.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	0.550	0.0	0.0	74.000
Woods - good - Soil B	55.000	0.500	0.0	0.0	55.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.890	(N/A)	(N/A)	62.067

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: EDA-4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.540	0.0	0.0	61.000
Grass C soil	74.000	0.220	0.0	0.0	74.000
Woods B soil	55.000	0.250	0.0	0.0	55.000
Woods C soil	70.000	0.050	0.0	0.0	70.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.060	(N/A)	(N/A)	62.708

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Basin 6 Area	61.000	1.910	0.0	0.0	61.000
Wooded Area (S Brunswick)	55.000	1.730	0.0	0.0	55.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.640	(N/A)	(N/A)	58.148

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Future Connection Road	98.000	0.300	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.300	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious vehicular (Nursery Blvd)	98.000	4.500	0.0	0.0	98.000
Impervious non vehicular/roof (Nursery Blvd)	98.000	7.220	0.0	0.0	98.000
Impervious Vehicular Road C	98.000	0.340	0.0	0.0	98.000
Impervious roof	98.000	0.160	0.0	0.0	98.000
Impervious porous Road C	90.000	0.130	0.0	0.0	90.000
Impervious non vehicular Road C	98.000	0.110	0.0	0.0	98.000
Impervious porous asphaly Nursery Blvd	90.000	0.300	0.0	0.0	90.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	12.760	(N/A)	(N/A)	97.730

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: PDA-6 PER (Plainsboro)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Fair condition; grass cover 50% to 75% - Soil C (original design)	74.000	0.480	0.0	0.0	74.000
Open space B soil (Road C)	61.000	0.830	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.310	(N/A)	(N/A)	65.763

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: PDA8 Imp
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious roof	98.000	0.380	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.380	(N/A)	(N/A)	98.000

Post Developed Curve Number

Subsection: Runoff CN-Area
Label: PDA8 Perv
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Grass B soil	61.000	0.260	0.0	0.0	61.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.260	(N/A)	(N/A)	61.000

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-1 Perv	0.012	0.24	45.64	Used 45
PDA-2 Perv	0.1	0.24	131.76	Used 55'
PDA-4 Perv	0.055	0.24	97.72	Used 34'
PDA-5 Perv	0.033	0.24	75.69	Used 18'
PDA-6 Perv	0.028	0.24	69.72	Used 35'
PDA-7 Perv	0.08	0.24	117.85	Used 56'
PDA-9 Perv	0.09	0.24	125.00	Used 50'
PDA-10 Perv	0.015	0.24	51.03	Used 10'
PDA-11 Perv	0.13	0.24	150.23	Used 15'
PDA-12 Perv	0.03	0.24	72.17	Used 59'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-14 Perv	0.045	0.24	88.39	Used 22'
PDA-15 Perv	0.08	0.24	117.85	Used 34'
PDA-16 Perv	0.2	0.24	186.34	Used 57'
PDA-17 Perv	0.03	0.24	72.17	Used 17'
PDA-18 Perv	0.04	0.24	83.33	Used 50'
PDA-19 Perv	0.016	0.24	52.70	Used 26'
PDA-20 Perv	0.03	0.24	72.17	Used 20'
PDA-21 Perv	0.02	0.24	58.93	Used 31'
PDA-22 Perv	0.02	0.24	58.93	Used 30'
PDA-25 Perv	0.015	0.24	51.03	Used 51'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-26 Perv	0.02	0.24	58.93	Used 44'
PDA-28 Perv	0.06	0.24	102.06	Used 73'
PDA-29 Perv	0.033	0.24	75.69	Used 33'
PDA-30 Perv	0.05	0.24	93.17	Used 55'
PDA-31 Perv	0.02	0.24	58.93	Used 15'
PDA-32	0.026	0.011	1465.87	Used 100'
PDA-33 Perv	0.33	0.24	239.36	Used 20'
PDA-34 Perv	0.02	0.24	58.93	Used 20'
PDA-35 Perv	0.06	0.24	102.06	Used 57'
PDA-36 Perv	0.02	0.24	58.93	Used 12'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-37 Perv	0.02	0.24	58.93	Used 18'
PDA-41	0.04	0.011	1818.18	Used 100'
PDA-42 Perv	0.043	0.24	86.40	Used 23'
PDA-43 Perv	0.045	0.24	88.39	Used 50'
PDA-44	0.012	0.011	995.86	Used 60'
PDA-45 Perv	0.059	0.24	101.21	Used 16'
PDA-46 Perv	0.04	0.24	83.33	Used 43'
PDA-47 Perv	0.024	0.24	64.55	Used 64'
PDA-48 Perv	0.03	0.24	72.17	Used 35'
PDA-49 Perv	0.02	0.24	58.93	Used 10'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-50 Perv	0.024	0.24	64.55	Used 42'
PDA-51 Perv	0.02	0.24	58.93	Used 59'
PDA-52 Perv	0.043	0.24	86.40	Used 23'
PDA-53 Perv	0.045	0.24	88.39	Used 50'
PDA-54 Perv	0.032	0.24	74.54	Used 17'
PDA-55 Perv	0.03	0.24	72.17	Used 25'
PDA-56 Perv	0.02	0.24	58.93	Used 10'
PDA-57 Perv	0.024	0.24	64.55	Used 23'
PDA-58 Perv	0.03	0.24	72.17	Used 72'
PDA-59 Perv	0.023	0.24	63.19	Used 63'

PRINCETON NURSERIES

WRNUL23001 PLAINSBORO TWP., MIDDLESEX CO. 3/24/2025

Maximum Sheet Flow Length McCuen - Spiess Limitation

$$L = \frac{100\sqrt{S}}{n}$$

where S is the slope, in ft/ft, and n is the Manning's roughness coefficient for sheet flow.

	Enter "S" Slope	Enter "n" Manning's	Equals Length	
PDA-60 Perv	0.01	0.24	41.67	Used 22'
PDA-61 Perv	0.032	0.24	74.54	Used 55'
PDA-62 Perv	0.033	0.24	75.69	Used 75'
PDA-63	0.013	0.011	1036.52	Used 100'

IMPERVIOUS SHEET FLOW LENGTHS CALCULATED BELOW FOR VARIOUS SLOPES MINIMUM 100' UTILIZED IN CALCULATIONS

Enter "S" Slope	Enter "n" Manning's	Equals Length	
0.01	0.011	909.09	Used 100'
0.015	0.011	1113.40	Used 100'
0.02	0.011	1285.65	Used 100'
0.025	0.011	1437.40	Used 100'
0.03	0.011	1574.59	Used 100'
0.04	0.011	1818.18	Used 100'

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	41.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	182.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	45.00 ft
Manning's n	0.240
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.14 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	41.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	182.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.16 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Perv Basin
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.40 ft/s
Segment Time of Concentration	0.07 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA1 Perv Basin
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA10 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA10 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA10 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.07 ft/s
Segment Time of Concentration	0.04 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	110.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA10 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA11 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.130 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	271.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	131.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA11 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA11 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.130 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	271.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	131.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA11 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA12A Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.96 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	120.00 ft
Is Paved?	False
Slope	0.025 ft/ft
Average Velocity	2.55 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	685.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.42 ft/s
Segment Time of Concentration	0.06 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA12A Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA12A Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	72.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.14 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	58.00 ft
Is Paved?	False
Slope	0.025 ft/ft
Average Velocity	2.55 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	685.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.42 ft/s
Segment Time of Concentration	0.06 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.20 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA12A Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA13 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.30 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	54.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA13 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA13 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.30 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	54.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA13 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA14 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.30 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	111.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA14 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA14 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	22.00 ft
Manning's n	0.240
Slope	0.045 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	184.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.36 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA14 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA15 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	24.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.39 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	286.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	104.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.04 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA15 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA15 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	34.00 ft
Manning's n	0.240
Slope	0.080 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.18 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	286.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	104.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.04 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA15 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA16 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.011
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.29 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	235.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA16 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA16 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	57.00 ft
Manning's n	0.240
Slope	0.200 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.29 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	235.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA16 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA17 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	63.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA17 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA17 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	17.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.04 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	263.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA17 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA18 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	292.00 ft
Manning's n	0.015
Slope	0.027 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	7.44 ft/s
Segment Time of Concentration	0.01 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	32.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.13 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA18 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA18 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	292.00 ft
Manning's n	0.015
Slope	0.027 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	7.44 ft/s
Segment Time of Concentration	0.01 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	32.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.13 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA18 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA19 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	26.00 ft
Manning's n	0.240
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	224.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	6.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA19 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA19 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	26.00 ft
Manning's n	0.240
Slope	0.016 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	224.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	6.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA19 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.28 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	70.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA2 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.240
Slope	0.100 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.22 ft/s
Segment Time of Concentration	0.07 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	170.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA2 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA20 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.011
Slope	0.025 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.20 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	208.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	85.00 ft
Manning's n	0.015
Slope	0.047 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	9.81 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA20 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA20 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	208.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	85.00 ft
Manning's n	0.015
Slope	0.047 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	9.81 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA20 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA21 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	58.00 ft
Manning's n	0.240
Slope	0.170 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.27 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	40.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA21 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA21 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	31.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	30.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.11 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA21 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA22 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.86 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	45.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	41.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA22 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA22 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	124.00 ft
Is Paved?	False
Slope	0.020 ft/ft
Average Velocity	2.28 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	35.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA22 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA25 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.034 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.88 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	29.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	920.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.08 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA25 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA25 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	51.00 ft
Manning's n	0.240
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.14 hours

Segment #2: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	785.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.07 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.21 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA25 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA26 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	315.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.04 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	195.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA26 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA26 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	44.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.11 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	292.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	195.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.16 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA26 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA28 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	111.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA28 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA28 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	73.00 ft
Manning's n	0.240
Slope	0.060 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.19 ft/s
Segment Time of Concentration	0.11 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	127.00 ft
Is Paved?	True
Slope	0.017 ft/ft
Average Velocity	2.65 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	0.8 ft²
Hydraulic Length	104.00 ft
Manning's n	0.015
Slope	0.003 ft/ft
Wetted Perimeter	2.60 ft
Average Velocity	2.48 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.13 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA28 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA29 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	33.00 ft
Manning's n	0.240
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.07 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	270.00 ft
Is Paved?	True
Slope	0.022 ft/ft
Average Velocity	3.02 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	59.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA29 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA30 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.011
Slope	0.048 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.63 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	194.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	54.00 ft
Manning's n	0.015
Slope	0.007 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.79 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA30 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA30 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	194.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	54.00 ft
Manning's n	0.015
Slope	0.007 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.79 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.12 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA30 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA31 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.022 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.58 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	295.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	93.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA31 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA31 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	379.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	93.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA31 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA32 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.026 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.69 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	42.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	126.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA32 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA32 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.026 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.69 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	42.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	126.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA32 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA33 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	81.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA33 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA33 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	15.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.27 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	176.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA33 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA34 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.011 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.20 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	109.00 ft
Is Paved?	True
Slope	0.011 ft/ft
Average Velocity	2.13 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA34 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA34 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	106.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA34 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA35 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	100.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	121.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA35 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA35 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	45.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.16 ft/s
Segment Time of Concentration	0.08 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA35 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA36 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.035 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.90 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	145.00 ft
Is Paved?	True
Slope	0.035 ft/ft
Average Velocity	3.80 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA36 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA36 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	12.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.04 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	245.00 ft
Is Paved?	True
Slope	0.035 ft/ft
Average Velocity	3.80 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA36 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA37 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.52 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	145.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.10 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA37 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA37 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	18.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.09 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	237.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.10 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA37 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA4 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	34.00 ft
Manning's n	0.240
Slope	0.055 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.16 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	135.00 ft
Is Paved?	True
Slope	0.022 ft/ft
Average Velocity	3.02 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA4 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.055 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	2.28 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	50.00 ft
Is Paved?	True
Slope	0.055 ft/ft
Average Velocity	4.77 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA41 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	88.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.95 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA41 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA41 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	88.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.95 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA41 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA42 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.86 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	150.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	46.00 ft
Manning's n	0.015
Slope	0.018 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.07 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA42 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA42 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	23.00 ft
Manning's n	0.240
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	211.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	46.00 ft
Manning's n	0.015
Slope	0.018 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.07 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA42 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA43 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	54.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.02 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA43 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA43 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.045 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.16 ft/s
Segment Time of Concentration	0.09 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA43 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA44 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	60.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.12 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	72.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA44 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA44 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	60.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.12 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	72.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA44 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.015
Slope	0.022 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.09 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	437.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.04 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.8 ft²
Hydraulic Length	49.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	4.70 ft
Average Velocity	3.70 ft/s
Segment Time of Concentration	0.00 hours

Segment #4: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	129.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.01 hours

Segment #5: TR-55 Channel Flow	
Flow Area	7.1 ft²

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Segment #5: TR-55 Channel Flow	
Hydraulic Length	162.00 ft
Manning's n	0.015
Slope	0.003 ft/ft
Wetted Perimeter	9.40 ft
Average Velocity	4.51 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	16.00 ft
Manning's n	0.240
Slope	0.059 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.03 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	42.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	437.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.04 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.8 ft²
Hydraulic Length	49.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	4.70 ft
Average Velocity	3.70 ft/s
Segment Time of Concentration	0.00 hours

Segment #5: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	129.00 ft
Manning's n	0.015

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Segment #5: TR-55 Channel Flow	
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.01 hours

Segment #6: TR-55 Channel Flow	
Flow Area	7.1 ft²
Hydraulic Length	162.00 ft
Manning's n	0.015
Slope	0.003 ft/ft
Wetted Perimeter	9.40 ft
Average Velocity	4.51 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA45 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA46 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.025 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.66 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	92.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	58.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA46 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA46 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	43.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	136.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	58.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.10 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA46 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA47 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.019 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.49 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	189.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.41 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	211.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA47 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA47- Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	64.00 ft
Manning's n	0.240
Slope	0.024 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.13 ft/s
Segment Time of Concentration	0.14 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	214.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.44 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	211.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.23 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.18 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA47- Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA48 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	117.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA48 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA48 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	117.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA48 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA49 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.28 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	175.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	27.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA49 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA49 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.03 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	274.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	27.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA49 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA5 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.46 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	147.00 ft
Is Paved?	True
Slope	0.040 ft/ft
Average Velocity	4.07 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	25.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA5 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA5 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.03 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	147.00 ft
Is Paved?	True
Slope	0.040 ft/ft
Average Velocity	4.07 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	25.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA5 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA50 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	2.00 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	121.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	140.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.04 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA50 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA50 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	42.00 ft
Manning's n	0.240
Slope	0.024 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.10 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	131.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	140.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.12 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA50 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA51 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.15 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	198.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	45.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA51 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA51 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	59.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.14 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	206.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	45.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.17 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA51 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA52 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.028 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.74 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	48.00 ft
Is Paved?	True
Slope	0.028 ft/ft
Average Velocity	3.40 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA52 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA52 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	36.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.10 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	132.00 ft
Is Paved?	True
Slope	0.030 ft/ft
Average Velocity	3.52 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.12 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA52 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA53 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.79 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	55.00 ft
Is Paved?	True
Slope	0.030 ft/ft
Average Velocity	3.52 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	118.00 ft
Manning's n	0.015
Slope	0.004 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	2.86 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA53 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA53 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.09 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	130.00 ft
Is Paved?	True
Slope	0.030 ft/ft
Average Velocity	3.52 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	118.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.11 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA53 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA54 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	122.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA54 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA54 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	17.00 ft
Manning's n	0.240
Slope	0.032 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.04 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	224.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA54 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA55 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	30.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.19 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	73.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	123.00 ft
Manning's n	0.015
Slope	0.020 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.40 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA55 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA55 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.07 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	73.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	123.00 ft
Manning's n	0.015
Slope	0.020 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.40 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA55 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA56 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.96 ft/s
Segment Time of Concentration	0.00 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	181.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA56 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA56 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.08 ft/s
Segment Time of Concentration	0.03 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	181.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.02 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA56 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA57 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	47.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.31 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	63.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.08 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA57 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA57 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	23.00 ft
Manning's n	0.240
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.10 ft/s
Segment Time of Concentration	0.07 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	63.00 ft
Is Paved?	True
Slope	0.023 ft/ft
Average Velocity	3.08 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	10.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA57 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA58 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.035 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.90 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	73.00 ft
Is Paved?	True
Slope	0.017 ft/ft
Average Velocity	2.65 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	285.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA58 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA58 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	72.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.14 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	80.00 ft
Is Paved?	False
Slope	0.033 ft/ft
Average Velocity	2.93 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Shallow Concentrated Flow	
Hydraulic Length	59.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.01 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	285.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.18 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA58 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA59 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.32 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	283.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	31.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.06 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA59 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA59 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	63.00 ft
Manning's n	0.240
Slope	0.023 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.14 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	283.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.03 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	31.00 ft
Manning's n	0.015
Slope	0.006 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.51 ft/s
Segment Time of Concentration	0.00 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.18 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA59 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.06 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	68.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	60.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.07 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA6 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.028 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.12 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	68.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.00 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	60.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA6 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA60 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	47.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.31 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	74.00 ft
Is Paved?	True
Slope	0.019 ft/ft
Average Velocity	2.80 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA60 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA60 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	22.00 ft
Manning's n	0.240
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.07 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	78.00 ft
Is Paved?	True
Slope	0.019 ft/ft
Average Velocity	2.80 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA60 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA61 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.023 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.61 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	128.00 ft
Is Paved?	True
Slope	0.018 ft/ft
Average Velocity	2.73 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA61 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA61 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	55.00 ft
Manning's n	0.240
Slope	0.032 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.11 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	147.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.12 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA61 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA62 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.037 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.94 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	109.00 ft
Is Paved?	True
Slope	0.026 ft/ft
Average Velocity	3.28 ft/s
Segment Time of Concentration	0.01 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	68.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA62 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA62 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	75.00 ft
Manning's n	0.240
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.15 ft/s
Segment Time of Concentration	0.14 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	91.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.15 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA62 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA63 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.26 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	115.00 ft
Is Paved?	True
Slope	0.036 ft/ft
Average Velocity	3.86 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA63 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA7 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.35 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	266.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.05 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA7 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA7 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	56.00 ft
Manning's n	0.240
Slope	0.080 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.20 ft/s
Segment Time of Concentration	0.08 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	266.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.03 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.11 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA7 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA9 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	22.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.12 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	174.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA9 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA9 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.090 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.20 ft/s
Segment Time of Concentration	0.07 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	182.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.27 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: DA9 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA3 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	70.00 ft
Manning's n	0.240
Slope	0.330 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.37 ft/s
Segment Time of Concentration	0.05 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	428.00 ft
Is Paved?	False
Slope	0.039 ft/ft
Average Velocity	3.19 ft/s
Segment Time of Concentration	0.04 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.09 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA3 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-4
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	65.00 ft
Manning's n	0.240
Slope	0.100 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.23 ft/s
Segment Time of Concentration	0.08 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.08 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: EDA-4
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.17 ft/s
Segment Time of Concentration	0.16 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	217.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.18 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.32 ft/s
Segment Time of Concentration	0.01 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	225.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.03 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.52 ft/s
Segment Time of Concentration	0.02 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	553.00 ft
Is Paved?	True
Slope	0.020 ft/ft
Average Velocity	2.87 ft/s
Segment Time of Concentration	0.05 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	941.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.08 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.8 ft²
Hydraulic Length	385.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	4.70 ft
Average Velocity	3.70 ft/s
Segment Time of Concentration	0.03 hours

Segment #5: TR-55 Channel Flow	
Flow Area	3.1 ft²
Hydraulic Length	695.00 ft
Manning's n	0.015

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Segment #5: TR-55 Channel Flow	
Slope	0.005 ft/ft
Wetted Perimeter	6.30 ft
Average Velocity	4.38 ft/s
Segment Time of Concentration	0.04 hours

Segment #6: TR-55 Channel Flow	
Flow Area	7.1 ft²
Hydraulic Length	490.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	9.40 ft
Average Velocity	5.83 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.25 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: PDA8 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.010 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	1.15 ft/s
Segment Time of Concentration	0.02 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: PDA8 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: PDA8 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	10.00 ft
Manning's n	0.240
Slope	0.300 ft/ft
2 Year 24 Hour Depth	3.9 in
Average Velocity	0.24 ft/s
Segment Time of Concentration	0.01 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.02 hours

Post Developed Tc Projected Rainfall

Subsection: Time of Concentration Calculations
Label: PDA8 Perv
Scenario: 2YR Projected

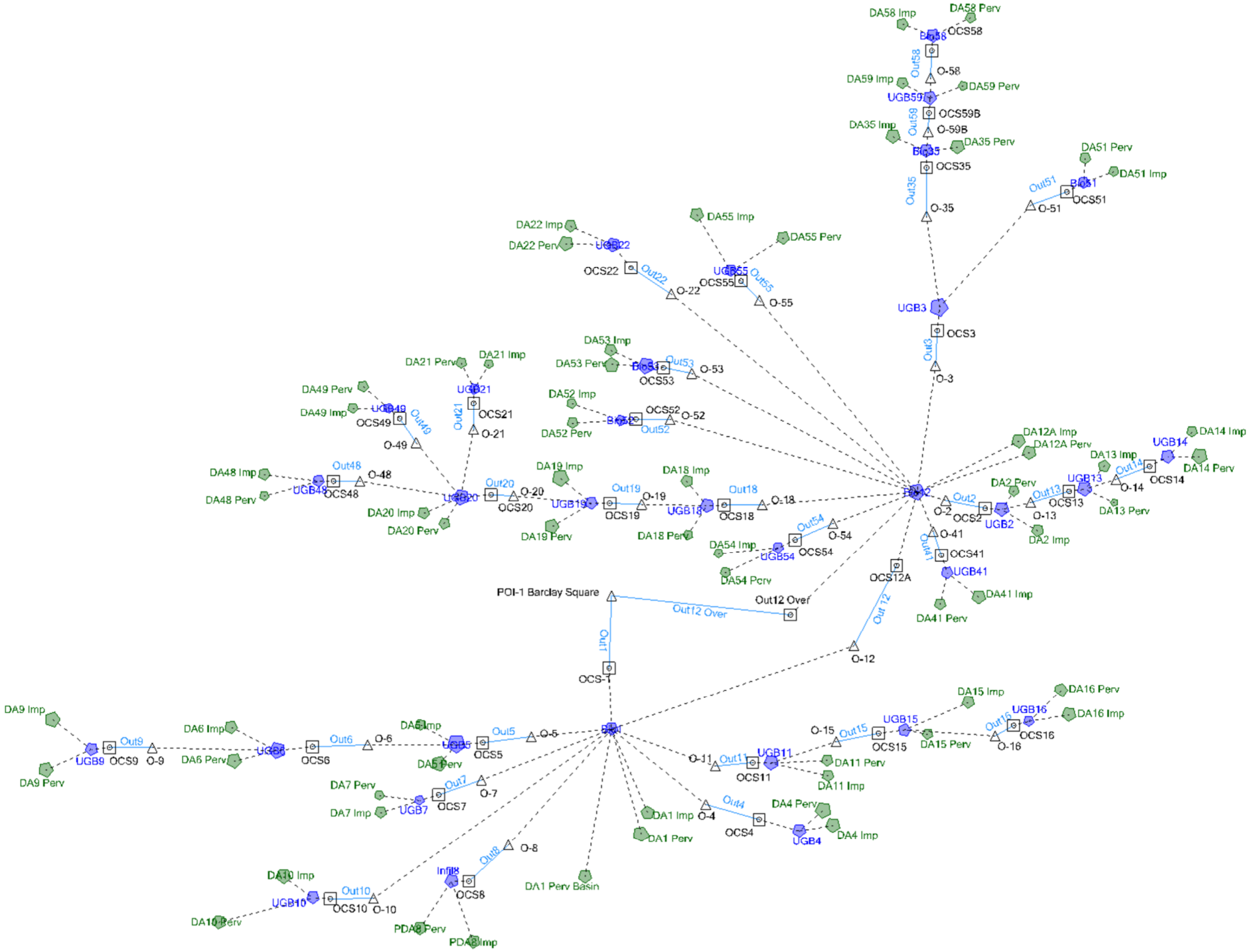
Return Event: 2 years
Storm Event: 2yr Projected NOAA D

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet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DA58 Perv
OCS58
Out58
O-58
DA59 Imp
DA59 Perv
UGB59
OCS59B
Out59
O-59B
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OCS35
Out35
O-35
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Out51
OCS51
O-51
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UGB22
OCS22
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O-22
DA55 Imp
DA55 Perv
OCS55
Out55
O-55
UGB3
OCS3
Out3
O-3
DA53 Imp
DA53 Perv
Out53
OCS53
O-53
DA52 Imp
DA52 Perv
OCS52
Out52
O-52
DA21 Perv
DA21 Imp
UGB21
OCS21
Out21
O-21
DA49 Perv
DA49 Imp
OCS49
Out49
O-49
DA48 Imp
DA48 Perv
Out48
UGB48
OCS48
O-48
DA19 Imp
DA19 Perv
Out19
UGB19
OCS19
O-19
DA18 Imp
DA18 Perv
Out18
UGB18
OCS18
O-18
DA20 Imp
DA20 Perv
Out20
OCS20
O-20
DA12A Imp
DA12A Perv
DA14 Imp
UGB14
DA14 Perv
OCS14
Out14
O-14
DA13 Imp
UGB13
Out13
OCS13
O-13
DA13 Perv
DA2 Perv
Out2
O-2
OCS2
UGB2
DA2 Imp
DA54 Imp
Out54
O-54
UGB54
OCS54
DA54 Perv
O-41
Out41
OCS41
UGB41
DA41 Imp
DA41 Perv
OCS12A
POI-1 Barclay Square
Out12 Over
Out12
O-12
Out1
OCS-1
DA9 Imp
DA9 Perv
Out9
UGB9
OCS9
O-9
DA6 Imp
DA6 Perv
Out6
UGB6
OCS6
O-6
DA5 Imp
DA5 Perv
Out5
UGB5
OCS5
O-5
DA7 Perv
DA7 Imp
Out7
UGB7
OCS7
O-7
DA1 Imp
DA1 Perv
DA1 Perv Basin
O-4
Out4
OCS4
UGB4
DA4 Perv
DA4 Imp
O-11
Out11
UGB11
OCS11
DA11 Perv
DA11 Imp
O-15
Out15
UGB15
OCS15
DA15 Imp
DA15 Perv
UGB16
DA16 Perv
DA16 Imp
Out16
OCS16
O-16
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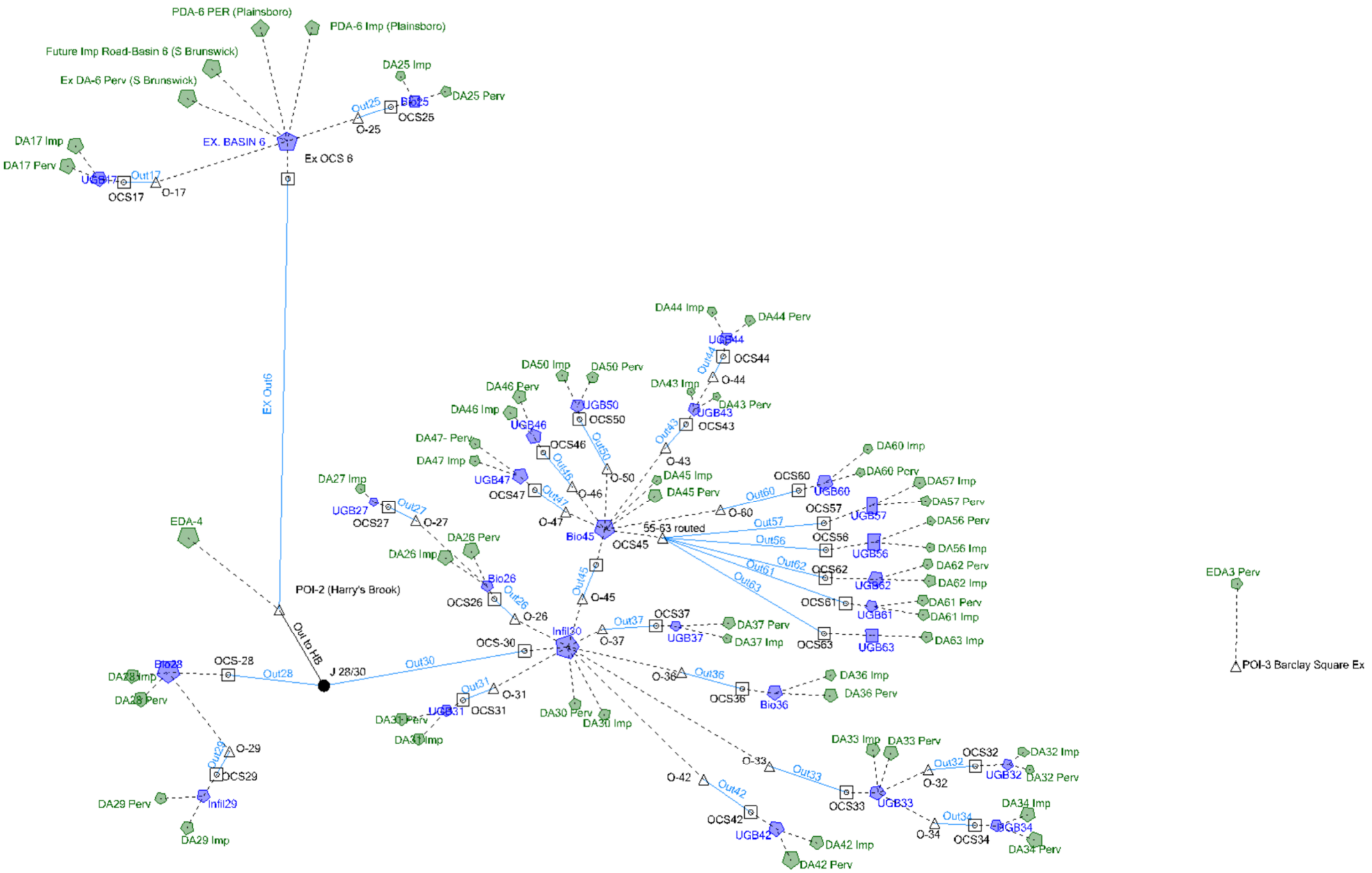
Out8
O-8
OCS8
PDA8 Perv
PDA8 Imp


PDA-6 PER (Plainsboro)
PDA-6 Imp (Plainsboro)
Future Imp Road-Basin 6 (S Brunswick)
Ex DA-6 Perv (S Brunswick)
DA25 Imp
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Out25
Bio25
OCS25
O-25
DA17 Imp
DA17 Perv
EX. BASIN 6
Ex OCS 6
UGB17
Out17
OCS17
O-17
EX Out6
DA44 Imp
DA44 Perv
UGB44
OCS44
Out44
O-44
DA50 Imp
DA50 Perv
DA43 Imp
DA43 Perv
DA46 Perv
DA46 Imp
UGB50
OCS50
UGB43
OCS43
UGB46
OCS46
Out50
Out43
DA47- Perv
DA47 Imp
O-43
Out45
O-50
DA45 Imp
DA45 Perv
DA27 Imp
UGB47
OCS47
Out47
O-46
O-47
Out27
UGB27
OCS27
O-27
Bio45
55-63 routed
OCS45
DA60 Imp
DA60 Perv
OCS60
UGB60
Out60
O-60
DA57 Imp
DA57 Perv
OCS57
UGB57
Out57
DA56 Perv
DA56 Imp
OCS56
UGB56
Out56
DA62 Perv
DA62 Imp
Out62
OCS62
UGB62
Out61
Out63
DA61 Perv
DA61 Imp
OCS61
UGB61
DA63 Imp
OCS63
UGB63
EDA-4
DA26 Perv
DA26 Imp
Bio26
OCS26
Out26
O-26
Out45
O-45
POI-2 (Harry's Brook)
Out to HB
J 28/30
Out30
Infil30
O-37
Out37
OCS37
UGB37
DA37 Perv
DA37 Imp
OCS-30
O-36
Out36
OCS36
Bio36
DA36 Imp
DA36 Perv
Out31
O-31
UGB31
OCS31
DA30 Perv
DA30 Imp
DA31 Perv
DA31 Imp
Bio28
DA28 Imp
DA28 Perv
OCS-28
Out28
O-29
Out29
OCS29
DA29 Perv
Infil29
DA29 Imp
O-33
Out33
DA33 Imp
DA33 Perv
OCS32
DA32 Imp
Out32
O-32
UGB32
DA32 Perv
O-42
Out42
OCS33
UGB33
DA34 Imp
Out34
O-34
OCS34
UGB34
DA34 Perv
OCS42
UGB42
DA42 Imp
DA42 Perv
EDA3 Perv
POI-3 Barclay Square Ex

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.540 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.17 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	6,962.490 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,962.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.12 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.14 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.540 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.48 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.47 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	11,435.266 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,435.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.12 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.14 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.540 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.47 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.47 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	21,771.998 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,772.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.12 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.14 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.16 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	0.81 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.81 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	3,130.531 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,131.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.16 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.93 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.43 hours
Total unit time, Tb	0.53 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.16 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	2.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	2.21 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.6 in
Runoff Volume (Pervious)	7,872.715 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,874.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.16 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.93 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.43 hours
Total unit time, Tb	0.53 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.16 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	6.00 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	5.99 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.0 in
Runoff Volume (Pervious)	21,314.827 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,319.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.16 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.93 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.43 hours
Total unit time, Tb	0.53 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.35 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	1,062.167 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,062.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.36 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.91 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.90 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.7 in
Runoff Volume (Pervious)	2,621.061 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,620.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.36 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.270 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	2.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.38 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.1 in
Runoff Volume (Pervious)	6,991.817 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,991.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA1 Perv Basin
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.36 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.790 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.22 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.790 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	10,511.129 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,513.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	26.80 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.790 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.13 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.13 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.790 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	17,067.567 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,069.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	26.80 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.790 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	9.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	9.52 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.790 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	32,200.492 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	32,204.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	26.80 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.21 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	664.051 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	663.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.69 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.67 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.67 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,858.881 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,858.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.69 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.97 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.96 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	5,455.932 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,454.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA10 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.69 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.610 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.40 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	7,619.429 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,619.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.51 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.610 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.88 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	12,658.297 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,657.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.51 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.610 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	7.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	7.25 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.610 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	24,323.440 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	24,322.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.51 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.16 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	498.038 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	497.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.99 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.50 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.50 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,394.161 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,393.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.99 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.47 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.46 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	4,091.949 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,090.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA11 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.99 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.360 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.41 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	4,789.881 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,790.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.69 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.360 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.24 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	7,777.625 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,777.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.69 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.360 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.17 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	14,673.642 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,673.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.69 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.20 hours
Area (User Defined)	2.260 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.20 hours
Flow (Peak, Computed)	1.45 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	1.44 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	2.260 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	6,664.367 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,665.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.20 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.62 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.54 hours
Total unit time, Tb	0.68 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.20 hours
Area (User Defined)	2.260 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.17 hours
Flow (Peak, Computed)	4.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	4.49 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	2.260 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.2 in
Runoff Volume (Pervious)	18,224.454 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	18,226.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.20 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.62 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.54 hours
Total unit time, Tb	0.68 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.20 hours
Area (User Defined)	2.260 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.17 hours
Flow (Peak, Computed)	13.59 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	13.23 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	2.260 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.4 in
Runoff Volume (Pervious)	52,581.911 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	52,585.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.20 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA12A Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.62 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.54 hours
Total unit time, Tb	0.68 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.34 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.3 in
Runoff Volume (Pervious)	4,112.998 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,114.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.88 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.17 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.6 in
Runoff Volume (Pervious)	6,911.915 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,913.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.88 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.07 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	10.9 in
Runoff Volume (Pervious)	13,405.529 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,407.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.88 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.040 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.04 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.040 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	110.675 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	111.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.63 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.040 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.12 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.12 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.040 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	309.813 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	311.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.63 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.040 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.33 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.33 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.040 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	909.322 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	911.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA13 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.63 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.330 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.32 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.31 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	4,121.986 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,122.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.85 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.330 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.12 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.12 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	6,847.930 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,848.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.85 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.330 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.97 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.96 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	13,158.582 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,159.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.85 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.070 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.06 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.070 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	193.681 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	194.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.17 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.070 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.19 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.19 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.070 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	542.174 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	542.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.17 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.070 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.55 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.070 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	1,591.314 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,591.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA14 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.17 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.41 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	11,176.389 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,177.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.08 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.44 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.43 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	18,147.794 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	18,148.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.08 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	10.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	10.09 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	34,238.498 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	34,240.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.08 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.66 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.61 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	2,268.840 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,269.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.69 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	2.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.03 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	6,351.177 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,351.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.69 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	6.24 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.10 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	18,641.102 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	18,641.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA15 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.69 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.29 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.94 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.94 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	19,082.381 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	19,083.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	38.54 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	9.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	9.52 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	31,341.102 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	31,342.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	38.54 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	17.74 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	17.73 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	59,671.404 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	59,674.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	38.54 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.870 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.68 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.63 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.870 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	2,407.184 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,407.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.50 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.870 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	2.19 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.870 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	6,738.445 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,738.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.50 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.870 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	6.50 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.32 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.870 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	19,777.753 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	19,776.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA16 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.50 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.850 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.39 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.850 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	10,617.232 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,620.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	34.96 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.850 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.47 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.46 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.850 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	17,638.609 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,642.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	34.96 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.850 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	10.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	10.20 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.850 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	33,893.315 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	33,898.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	34.96 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.10 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	332.025 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	332.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.84 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.32 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.31 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	929.441 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	929.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.84 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.94 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.93 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,727.966 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,728.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA17 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.84 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	2.71 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	2.61 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	10,056.931 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,059.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.91 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.34 hours
Total unit time, Tb	0.43 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.780 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	4.35 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	4.18 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	16,517.609 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,520.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.91 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.34 hours
Total unit time, Tb	0.43 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.780 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	8.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	7.78 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.780 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	31,448.443 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	31,454.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.91 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.34 hours
Total unit time, Tb	0.43 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.370 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.26 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	1,023.745 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,024.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.28 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.34 hours
Total unit time, Tb	0.43 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.370 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.86 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.84 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	2,865.775 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,866.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.28 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.34 hours
Total unit time, Tb	0.43 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.370 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	2.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	2.49 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	8,411.229 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,413.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA18 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.28 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.34 hours
Total unit time, Tb	0.43 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.27 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.24 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	4,371.804 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,372.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.01 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	2.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.01 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	7,262.957 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,263.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.01 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.350 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	3.85 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.77 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	13,956.072 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,956.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.01 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.100 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.07 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	276.688 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	277.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.14 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.23 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	774.534 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	774.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.14 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.100 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.74 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.71 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,273.305 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,273.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA19 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.14 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.39 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	10,830.538 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,831.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	31.60 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.43 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.43 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	17,788.192 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,789.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	31.60 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	10.12 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	10.10 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	33,867.552 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	33,867.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	31.60 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.920 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.79 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.74 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	0.920 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	2,712.928 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,712.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.52 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.920 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	2.44 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.34 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	0.920 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.2 in
Runoff Volume (Pervious)	7,418.804 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,417.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.52 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.920 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	7.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.91 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	0.920 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.4 in
Runoff Volume (Pervious)	21,405.025 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,402.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA2 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.52 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.690 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.78 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.78 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	8,896.513 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,897.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	23.71 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.45 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	14,611.730 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,611.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	23.71 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	8.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	8.29 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	27,819.776 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	27,819.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	23.71 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.400 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.33 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.31 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	1,106.751 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,106.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.74 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.02 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	3,098.136 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,098.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.74 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	3.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.05 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	9,093.221 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,092.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA20 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.74 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.96 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.94 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	6,495.250 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,495.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.10 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	3.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.14 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	10,790.679 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,791.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.10 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.520 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	5.91 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.87 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	20,734.736 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	20,735.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.10 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.17 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	636.382 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	636.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.43 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.29 hours
Total unit time, Tb	0.36 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.56 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.52 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,781.427 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,781.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.43 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.29 hours
Total unit time, Tb	0.36 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	1.67 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.59 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	5,228.602 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,228.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA21 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.43 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.29 hours
Total unit time, Tb	0.36 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.830 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.31 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.830 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	10,367.415 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,372.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	42.91 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.830 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.34 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.830 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	17,223.578 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,229.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	42.91 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.830 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	9.98 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	9.97 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.830 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	33,095.827 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	33,102.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	42.91 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.450 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.38 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.450 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.9 in
Runoff Volume (Pervious)	1,411.108 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,411.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.09 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.27 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.450 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	1.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.15 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.450 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.3 in
Runoff Volume (Pervious)	3,773.681 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,773.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.09 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.27 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.450 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	3.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.34 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.450 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.6 in
Runoff Volume (Pervious)	10,708.729 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,708.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA22 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.09 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.27 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	1.930 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	7.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.92 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.930 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	24,107.375 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	24,108.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.60 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	1.930 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	11.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	11.18 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.930 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	40,050.020 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	40,051.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.60 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	1.930 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	21.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	20.93 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.930 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	76,957.770 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	76,959.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.60 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.21 hours
Area (User Defined)	1.480 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	0.86 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	0.85 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	4,094.979 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,094.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.21 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.02 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.56 hours
Total unit time, Tb	0.70 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.21 hours
Area (User Defined)	1.480 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	2.84 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	2.79 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	11,463.098 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,461.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.21 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.02 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.56 hours
Total unit time, Tb	0.70 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.21 hours
Area (User Defined)	1.480 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	8.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	8.36 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.480 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	33,644.916 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	33,640.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.21 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA25 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.02 ft³/s
Unit peak time, Tp	0.14 hours
Unit receding limb, Tr	0.56 hours
Total unit time, Tb	0.70 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.590 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	6.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.06 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.590 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	19,860.480 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	19,861.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.82 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.590 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	9.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	9.79 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.590 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	32,994.579 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	32,995.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.82 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.590 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	18.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	18.32 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.590 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	63,400.440 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	63,402.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	24.82 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.16 hours
Area (User Defined)	1.190 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.17 hours
Flow (Peak, Computed)	0.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.07 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.190 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	304.356 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	304.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.16 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	0.77 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.43 hours
Total unit time, Tb	0.54 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.16 hours
Area (User Defined)	1.190 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	0.23 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.23 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.190 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	851.987 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	852.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.16 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	0.77 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.43 hours
Total unit time, Tb	0.54 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.16 hours
Area (User Defined)	1.190 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	0.71 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.70 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	1.190 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,500.636 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,501.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.16 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA26 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	0.77 ft³/s
Unit peak time, Tp	0.11 hours
Unit receding limb, Tr	0.43 hours
Total unit time, Tb	0.54 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.770 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.13 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	10,245.016 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,247.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.770 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.00 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.99 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	16,635.474 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,637.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.770 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	9.29 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	9.27 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	31,385.289 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	31,387.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA27 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.900 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.63 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.900 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	11,604.150 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,605.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	28.10 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.900 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.82 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.82 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.900 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	19,058.776 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	19,060.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	28.10 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.900 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	10.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	10.83 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.900 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	36,286.665 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	36,289.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	28.10 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.810 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	0.56 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.56 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.810 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	2,241.171 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,241.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.91 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.35 hours
Total unit time, Tb	0.44 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.810 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	1.85 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	1.82 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.810 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	6,273.725 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,274.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.91 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.35 hours
Total unit time, Tb	0.44 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.13 hours
Area (User Defined)	0.810 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	5.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	5.41 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.810 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	18,413.772 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	18,414.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.13 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA28 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.91 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.35 hours
Total unit time, Tb	0.44 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.030 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.09 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.030 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	12,865.592 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,865.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	29.18 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.030 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.61 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.60 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.030 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	21,373.845 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,373.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	29.18 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	1.030 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	12.35 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	12.34 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.030 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	41,070.727 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	41,068.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	29.18 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	581.044 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	581.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.33 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.27 hours
Total unit time, Tb	0.34 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.49 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,626.521 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,626.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.33 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.27 hours
Total unit time, Tb	0.34 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	1.54 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.48 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	4,773.940 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,774.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA29 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.33 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.27 hours
Total unit time, Tb	0.34 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.50 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.50 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	17,237.391 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,241.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.24 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	8.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	8.88 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	28,636.800 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	28,641.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.24 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	16.59 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	16.59 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	55,026.798 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	55,034.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.24 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	1.710 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	1.97 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	1.91 ft³/s

Drainage Area	
SCS CN (Composite)	65.000
Area (User Defined)	1.710 acres
Maximum Retention (Pervious)	5.4 in
Maximum Retention (Pervious, 20 percent)	1.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	6,727.053 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,727.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	16.05 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.32 hours
Total unit time, Tb	0.40 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	1.710 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	5.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	4.93 ft³/s

Drainage Area	
SCS CN (Composite)	65.000
Area (User Defined)	1.710 acres
Maximum Retention (Pervious)	5.4 in
Maximum Retention (Pervious, 20 percent)	1.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.7 in
Runoff Volume (Pervious)	16,600.054 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,600.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	16.05 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.32 hours
Total unit time, Tb	0.40 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	1.710 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	13.50 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	12.90 ft³/s

Drainage Area	
SCS CN (Composite)	65.000
Area (User Defined)	1.710 acres
Maximum Retention (Pervious)	5.4 in
Maximum Retention (Pervious, 20 percent)	1.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.1 in
Runoff Volume (Pervious)	44,281.501 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	44,282.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA30 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	16.05 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.32 hours
Total unit time, Tb	0.40 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.580 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.32 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.32 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.580 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	7,478.229 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,478.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.82 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.580 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.73 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.73 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.580 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	12,282.324 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,282.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.82 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.580 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.94 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.94 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.580 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	23,384.739 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	23,385.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.82 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.03 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	3,592.411 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,592.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.67 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.65 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.64 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	5,833.220 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,833.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.67 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.270 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	3.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.04 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	11,005.231 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,005.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA31 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.67 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.280 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	9.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	9.20 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	29,397.178 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	29,402.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	86.08 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.280 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	14.75 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	14.75 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	48,282.235 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	48,287.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	86.08 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.280 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	27.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	27.46 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.280 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	91,926.216 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	91,933.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	86.08 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.21 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	608.712 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	611.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.31 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.64 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.64 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,703.974 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,708.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.31 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.220 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.84 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.84 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	5,001.270 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,007.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA32 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.31 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.37 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.37 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	4,383.789 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,384.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.84 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.20 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.19 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	7,199.982 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,201.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.84 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.340 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.09 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.340 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	13,708.295 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,709.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.84 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	249.019 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	249.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.73 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.26 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	697.080 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	697.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.73 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.75 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.75 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,045.974 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,047.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA33 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.73 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.41 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	4,512.725 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,513.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.59 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.350 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.26 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	7,411.747 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,412.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.59 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.20 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	14,111.481 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,112.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.59 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.10 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	359.694 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	360.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.04 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.35 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.34 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,006.894 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,007.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.04 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.02 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.01 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,955.297 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,955.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA34 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.04 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.60 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.60 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	1,934.025 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,934.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.74 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.96 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.96 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	3,176.463 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,177.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.74 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.150 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.80 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.79 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	6,047.777 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,048.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.74 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.690 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.54 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	1,909.145 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,909.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.92 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.80 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.76 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	5,344.284 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,343.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.92 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	5.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.27 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	15,685.806 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,684.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA35 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.92 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.21 hours
Total unit time, Tb	0.26 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.08 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	6,785.663 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,787.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.08 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.510 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.31 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	11,018.303 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,020.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.08 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.510 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.14 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.510 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	20,787.659 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	20,790.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.08 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.760 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.09 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.760 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	3,151.103 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,149.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	15.00 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.760 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	2.73 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.72 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.760 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.8 in
Runoff Volume (Pervious)	7,635.115 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,632.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	15.00 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.760 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	7.00 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.99 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.760 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.3 in
Runoff Volume (Pervious)	20,074.550 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	20,069.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA36 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	15.00 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.41 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	4,512.725 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,513.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.68 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.26 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	7,411.747 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,412.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.68 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.350 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.21 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	14,111.481 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,112.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.68 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.180 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.14 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	498.038 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	498.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.69 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.180 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.47 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.46 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,394.161 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,394.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.69 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.180 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.40 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.38 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	4,091.949 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,091.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA37 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.69 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.860 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.28 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	10,742.146 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,741.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.33 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.860 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.29 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	17,846.125 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,845.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.33 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.860 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	9.92 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	9.90 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.860 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	34,292.063 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	34,290.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	13.33 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	415.031 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	419.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.50 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.150 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.44 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.44 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,161.800 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,168.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.50 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.26 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	3,409.957 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,420.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA4 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.50 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.170 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.68 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.68 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	2,123.446 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,124.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.63 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.170 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.09 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	3,527.721 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,529.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.63 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.170 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.04 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	6,778.663 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,779.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.63 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.020 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.02 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.02 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.020 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	55.338 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	56.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.13 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.020 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.06 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.020 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	154.907 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	156.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.13 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.020 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.17 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.020 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	454.661 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	456.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA41 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.13 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.560 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.17 ft³/s

Drainage Area	
SCS CN (Composite)	94.000
Area (User Defined)	0.560 acres
Maximum Retention (Pervious)	0.6 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.2 in
Runoff Volume (Pervious)	6,558.656 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,562.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.37 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.560 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.55 ft³/s

Drainage Area	
SCS CN (Composite)	94.000
Area (User Defined)	0.560 acres
Maximum Retention (Pervious)	0.6 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.5 in
Runoff Volume (Pervious)	11,149.591 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,153.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.37 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.560 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.70 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.70 ft³/s

Drainage Area	
SCS CN (Composite)	94.000
Area (User Defined)	0.560 acres
Maximum Retention (Pervious)	0.6 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	10.7 in
Runoff Volume (Pervious)	21,828.305 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,832.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.37 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.18 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	608.713 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	608.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.44 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.58 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.57 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,703.975 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,703.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.44 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.71 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	5,001.271 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,000.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA42 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.44 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.130 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.53 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.53 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	1,729.678 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,730.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.36 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.130 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.84 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.84 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	2,808.587 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,809.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.36 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.130 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.05 hours
Flow (Peak Interpolated Output)	1.56 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	5,298.815 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,299.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.36 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.20 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	663.390 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	663.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.03 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.54 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.52 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.8 in
Runoff Volume (Pervious)	1,607.393 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,607.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.03 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.160 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.38 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.36 ft³/s

Drainage Area	
SCS CN (Composite)	68.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	4.7 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.3 in
Runoff Volume (Pervious)	4,226.221 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,226.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA43 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.03 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.83 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.3 in
Runoff Volume (Pervious)	2,540.378 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,542.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.25 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.34 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.6 in
Runoff Volume (Pervious)	4,269.123 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,271.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.25 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.52 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	10.9 in
Runoff Volume (Pervious)	8,279.886 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,282.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.25 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.030 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.03 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.03 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.030 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	83.006 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	84.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.61 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.030 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.030 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	232.360 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	234.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.61 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.030 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.25 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.030 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	681.991 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	684.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA44 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.61 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.810 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.91 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.88 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.810 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	22,608.471 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	22,607.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	27.81 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.810 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	11.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	11.11 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.810 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	37,559.867 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	37,558.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	27.81 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	1.810 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	20.86 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	20.78 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.810 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	72,172.828 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	72,169.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	27.81 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.690 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.54 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.49 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	1,909.146 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,909.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.14 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.64 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	5,344.284 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,344.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.14 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.690 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	5.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.97 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.690 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	15,685.804 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,684.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA45 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	8.14 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.25 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	3,996.984 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,998.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.82 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.310 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.01 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.00 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	6,564.689 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,565.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.82 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.73 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.73 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	12,498.740 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,500.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.82 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.130 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.09 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	359.694 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	360.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.47 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.27 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.130 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.32 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.30 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,006.894 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,007.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.47 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.27 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.130 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.96 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.92 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,955.296 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,955.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA46 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.47 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.27 hours
Total unit time, Tb	0.33 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.530 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.10 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.530 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	6,833.556 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,834.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.21 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.530 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.36 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.530 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	11,223.503 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,224.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.21 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.530 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.26 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.530 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	21,368.812 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,369.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.21 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.18 hours
Flow (Peak, Computed)	0.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	0.18 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	830.063 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	830.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.86 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.49 hours
Total unit time, Tb	0.61 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.18 hours
Flow (Peak, Computed)	0.61 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.60 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	2,323.601 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,324.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.86 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.49 hours
Total unit time, Tb	0.61 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	1.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	1.83 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	6,819.915 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,822.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA47- Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.86 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.49 hours
Total unit time, Tb	0.61 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.80 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.80 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	2,623.082 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,623.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.24 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.30 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.29 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	4,357.775 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,358.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.24 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.210 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	2.43 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.42 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	8,373.643 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,374.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.24 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.090 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.07 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	249.019 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	249.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.11 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.23 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.22 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	697.081 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	697.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.11 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.68 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.66 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,045.975 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,046.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA48 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.11 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.20 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.20 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	3,868.050 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,868.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.55 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.93 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.93 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	6,352.926 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,353.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.55 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.59 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.59 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	12,095.554 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,095.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.55 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.180 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	498.038 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	498.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.94 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.180 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.48 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.47 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,394.161 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,394.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.94 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.180 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.42 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.41 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	4,091.949 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,091.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA49 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.94 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.51 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	4,746.526 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,749.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.45 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.44 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	7,885.493 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,887.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.56 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	15,152.305 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,154.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.53 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.12 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.12 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	359.694 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	360.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.67 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.130 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.37 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.37 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,006.894 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,007.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.67 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.130 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.07 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,955.297 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,955.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA5 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.67 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.360 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.45 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.45 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	4,641.660 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,642.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.12 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.32 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.32 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	7,623.511 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	7,624.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.12 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.360 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.33 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.33 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	14,514.666 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,515.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.12 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.120 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	332.025 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	332.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.10 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.33 hours
Total unit time, Tb	0.41 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	0.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	929.440 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	929.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.10 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.33 hours
Total unit time, Tb	0.41 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.120 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.80 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,727.966 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,728.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA50 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.10 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.33 hours
Total unit time, Tb	0.41 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.305 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.21 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.305 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	3,932.518 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,932.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.27 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.18 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.305 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.95 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.94 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.305 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	6,458.808 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,458.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.27 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.18 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.305 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.62 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.62 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.305 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	12,297.147 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,296.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	6.27 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.18 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.18 hours
Flow (Peak, Computed)	0.54 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.53 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.9 in
Runoff Volume (Pervious)	2,257.773 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,258.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.71 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.46 hours
Total unit time, Tb	0.58 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	1.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	1.61 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.3 in
Runoff Volume (Pervious)	6,037.889 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,039.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.71 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.46 hours
Total unit time, Tb	0.58 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.17 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	4.70 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	4.67 ft³/s

Drainage Area	
SCS CN (Composite)	63.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	5.9 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.6 in
Runoff Volume (Pervious)	17,133.965 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,136.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.17 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA51 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	4.71 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.46 hours
Total unit time, Tb	0.58 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.91 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.90 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	9,283.320 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,285.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	26.35 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.66 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.65 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	15,247.022 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,249.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	26.35 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.720 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	8.67 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	8.66 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.720 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	29,029.332 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	29,032.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	26.35 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.820 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	0.60 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.59 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	2,268.840 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,269.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.97 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.31 hours
Total unit time, Tb	0.39 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.820 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	1.95 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	1.86 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	6,351.178 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,350.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.97 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.31 hours
Total unit time, Tb	0.39 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.820 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	5.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	5.49 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.820 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	18,641.102 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	18,638.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA52 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.97 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.31 hours
Total unit time, Tb	0.39 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.27 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	3,997.077 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,998.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.57 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.320 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.05 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	6,640.418 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,641.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.57 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.320 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.85 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.84 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	12,759.837 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,760.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.57 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.370 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.14 hours
Flow (Peak, Computed)	0.27 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	1,023.744 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,024.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.69 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.30 hours
Total unit time, Tb	0.38 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.370 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.84 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	2,865.776 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,865.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.69 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.30 hours
Total unit time, Tb	0.38 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.370 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	2.65 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.49 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.370 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	8,411.229 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,410.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA53 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	3.69 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.30 hours
Total unit time, Tb	0.38 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.24 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.23 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	3,872.168 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,873.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.29 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.99 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.99 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	6,432.905 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,433.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.29 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.310 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.73 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.72 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.310 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	12,361.093 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,361.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	10.29 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.100 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	276.688 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	277.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.66 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.27 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.26 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	774.534 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	774.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.66 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.100 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.79 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.78 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,273.305 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,273.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA54 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.66 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.18 hours
Total unit time, Tb	0.23 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	2.090 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	8.44 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	8.42 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.090 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	26,947.408 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	26,956.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	118.40 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	2.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	13.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	13.49 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.090 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	44,258.708 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	44,266.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	118.40 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	2.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	25.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	25.11 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	2.090 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	84,265.696 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	84,272.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	118.40 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.410 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.50 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.410 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.1 in
Runoff Volume (Pervious)	1,612.920 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,613.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.57 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.410 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.31 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.410 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.7 in
Runoff Volume (Pervious)	3,980.129 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,980.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.57 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.410 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	3.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.48 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	0.410 acres
Maximum Retention (Pervious)	4.9 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.1 in
Runoff Volume (Pervious)	10,617.202 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,617.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA55 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.57 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.080 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	8.19 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	8.17 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	2.080 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.3 in
Runoff Volume (Pervious)	25,161.874 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	25,169.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	82.91 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.080 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	13.30 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	13.27 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	2.080 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.6 in
Runoff Volume (Pervious)	42,284.654 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	42,291.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	82.91 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	2.080 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	24.96 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	24.91 ft³/s

Drainage Area	
SCS CN (Composite)	95.000
Area (User Defined)	2.080 acres
Maximum Retention (Pervious)	0.5 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	10.9 in
Runoff Volume (Pervious)	82,010.304 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	82,016.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	82.91 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.280 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.24 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	774.726 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	774.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.32 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.280 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.77 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.76 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	2,168.695 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,167.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.32 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.280 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.24 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	6,365.254 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,363.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA56 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.32 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.35 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.35 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	10,492.321 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,497.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	47.59 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.41 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.39 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	17,431.090 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	17,435.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	47.59 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.840 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	10.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	10.08 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.840 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	33,494.570 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	33,498.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	47.59 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.080 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.06 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.080 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	221.350 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	221.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.24 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.080 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.21 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.080 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	619.627 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	620.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.24 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.080 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.63 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.62 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.080 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	1,818.644 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,819.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA57 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.24 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.21 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.21 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	19,610.661 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	19,610.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.85 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	10.02 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	10.02 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	32,579.552 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	32,580.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.85 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	1.570 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	18.73 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	18.72 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	62,602.953 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	62,604.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.85 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	1.75 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	1.73 ft³/s

Drainage Area	
SCS CN (Composite)	69.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	4.5 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.2 in
Runoff Volume (Pervious)	6,850.825 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,852.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.85 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.48 hours
Total unit time, Tb	0.60 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	4.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	4.35 ft³/s

Drainage Area	
SCS CN (Composite)	69.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	4.5 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.9 in
Runoff Volume (Pervious)	16,309.104 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,310.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.85 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.48 hours
Total unit time, Tb	0.60 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	1.570 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	11.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	11.23 ft³/s

Drainage Area	
SCS CN (Composite)	69.000
Area (User Defined)	1.570 acres
Maximum Retention (Pervious)	4.5 in
Maximum Retention (Pervious, 20 percent)	0.9 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.4 in
Runoff Volume (Pervious)	42,279.436 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	42,282.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA58 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.85 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.48 hours
Total unit time, Tb	0.60 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	1.020 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.04 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.020 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	13,151.370 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,150.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	20.15 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	1.020 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.48 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.47 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.020 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	21,599.950 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,598.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	20.15 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	1.020 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	12.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	12.06 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	1.020 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	41,124.887 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	41,122.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	20.15 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	1.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.16 hours
Flow (Peak, Computed)	2.47 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	2.43 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	1.840 acres
Maximum Retention (Pervious)	3.9 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.4 in
Runoff Volume (Pervious)	9,286.775 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,284.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.77 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.47 hours
Total unit time, Tb	0.59 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	1.840 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.16 hours
Flow (Peak, Computed)	5.73 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	5.68 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	1.840 acres
Maximum Retention (Pervious)	3.9 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.1 in
Runoff Volume (Pervious)	21,034.913 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,029.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.77 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.47 hours
Total unit time, Tb	0.59 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	1.840 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.16 hours
Flow (Peak, Computed)	13.98 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	13.90 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	1.840 acres
Maximum Retention (Pervious)	3.9 in
Maximum Retention (Pervious, 20 percent)	0.8 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.8 in
Runoff Volume (Pervious)	52,368.457 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	52,354.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA59 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	11.77 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.47 hours
Total unit time, Tb	0.59 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.490 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.90 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.89 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	6,317.816 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,318.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.50 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	3.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.02 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	10,376.446 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,377.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.50 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.490 acres
Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	5.66 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.63 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	19,756.073 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	19,757.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	7.50 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.16 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	608.713 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	609.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.74 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.56 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.53 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,703.975 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,704.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.74 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.220 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.66 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.61 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.220 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	5,001.271 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,001.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA6 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.74 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	1.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.27 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.26 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	16,487.933 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,495.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	74.78 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	1.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	8.50 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	8.48 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	27,391.713 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	27,398.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	74.78 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	1.320 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	15.87 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	15.84 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	1.320 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	52,634.324 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	52,640.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	74.78 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.17 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	636.382 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	636.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.82 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.58 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.56 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,781.428 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,781.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.82 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.72 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.68 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	5,228.602 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,228.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA60 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.82 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.12 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.11 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	6,918.716 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,919.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	19.42 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.38 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.37 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	11,234.348 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,234.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	19.42 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.27 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.26 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	21,195.260 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,195.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	19.42 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.060 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	0.04 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.04 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	166.013 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	166.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	0.55 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.33 hours
Total unit time, Tb	0.41 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.060 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.14 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	464.720 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	465.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	0.55 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.33 hours
Total unit time, Tb	0.41 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.12 hours
Area (User Defined)	0.060 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.42 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.40 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	1,363.983 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,364.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.12 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA61 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	0.55 ft³/s
Unit peak time, Tp	0.08 hours
Unit receding limb, Tr	0.33 hours
Total unit time, Tb	0.41 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.400 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.70 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.69 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.400 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	18,627.312 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	18,629.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	53.88 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.400 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	9.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	9.07 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.400 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	30,246.320 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	30,247.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	53.88 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.400 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	16.88 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	16.84 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.400 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	57,064.163 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	57,065.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	53.88 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.15 hours
Area (User Defined)	0.120 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	0.08 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.08 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	332.025 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	332.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.15 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	0.93 ft³/s
Unit peak time, Tp	0.10 hours
Unit receding limb, Tr	0.39 hours
Total unit time, Tb	0.49 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.15 hours
Area (User Defined)	0.120 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	0.26 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.26 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	929.441 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	929.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.15 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	0.93 ft³/s
Unit peak time, Tp	0.10 hours
Unit receding limb, Tr	0.39 hours
Total unit time, Tb	0.49 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.15 hours
Area (User Defined)	0.120 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.15 hours
Flow (Peak, Computed)	0.79 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.79 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.120 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	2,727.966 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,728.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.15 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA62 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	0.93 ft³/s
Unit peak time, Tp	0.10 hours
Unit receding limb, Tr	0.39 hours
Total unit time, Tb	0.49 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.000 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.06 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.000 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	13,305.222 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	13,306.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.32 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.000 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	6.49 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	6.48 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.000 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	21,604.516 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	21,606.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.32 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.000 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	12.06 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	12.03 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.000 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	40,760.114 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	40,762.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	37.32 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.60 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.60 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.6 in
Runoff Volume (Pervious)	5,157.400 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,157.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.03 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.56 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.56 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	8,470.568 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,470.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.03 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.400 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.77 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.77 ft³/s

Drainage Area	
SCS CN (Composite)	97.000
Area (User Defined)	0.400 acres
Maximum Retention (Pervious)	0.3 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.1 in
Runoff Volume (Pervious)	16,127.407 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	16,126.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	9.03 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.17 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	581.044 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	581.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.21 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.29 hours
Total unit time, Tb	0.36 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	0.51 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	0.47 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,626.521 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,626.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.21 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.29 hours
Total unit time, Tb	0.36 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.11 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.45 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	4,773.941 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,774.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.11 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA7 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	2.21 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.29 hours
Total unit time, Tb	0.36 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.490 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.96 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.95 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.4 in
Runoff Volume (Pervious)	6,120.523 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,122.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.11 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.490 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.15 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.7 in
Runoff Volume (Pervious)	10,168.138 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	10,169.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.11 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.490 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	5.89 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	5.88 ft³/s

Drainage Area	
SCS CN (Composite)	96.000
Area (User Defined)	0.490 acres
Maximum Retention (Pervious)	0.4 in
Maximum Retention (Pervious, 20 percent)	0.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.0 in
Runoff Volume (Pervious)	19,538.500 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	19,540.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	21.11 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.13 hours
Flow (Peak, Computed)	0.12 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.11 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	415.032 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	415.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.89 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	0.38 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.37 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	1,161.801 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,162.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.89 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	1.13 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.10 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	3,409.958 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,410.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: DA9 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	1.89 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	3.37 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.14 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	11,470.965 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	11,468.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.93 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	10.33 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	9.93 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.2 in
Runoff Volume (Pervious)	31,368.642 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	31,364.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.93 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	29.95 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	29.27 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.4 in
Runoff Volume (Pervious)	90,506.029 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	90,496.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	48.93 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.24 hours
Total unit time, Tb	0.30 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	1.060 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	1.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.04 ft³/s

Drainage Area	
SCS CN (Composite)	64.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	5.6 in
Maximum Retention (Pervious, 20 percent)	1.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.9 in
Runoff Volume (Pervious)	3,527.436 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,527.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.23 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	1.060 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.12 hours
Flow (Peak, Computed)	3.10 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.01 ft³/s

Drainage Area	
SCS CN (Composite)	64.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	5.6 in
Maximum Retention (Pervious, 20 percent)	1.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.4 in
Runoff Volume (Pervious)	9,234.081 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	9,233.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.23 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	1.060 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	12.11 hours
Flow (Peak, Computed)	8.61 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	8.47 ft³/s

Drainage Area	
SCS CN (Composite)	64.000
Area (User Defined)	1.060 acres
Maximum Retention (Pervious)	5.6 in
Maximum Retention (Pervious, 20 percent)	1.1 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.7 in
Runoff Volume (Pervious)	25,785.083 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	25,782.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: EDA-4
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.23 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.23 hours
Total unit time, Tb	0.28 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	3.640 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	1.62 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	1.59 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	3.640 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.6 in
Runoff Volume (Pervious)	8,193.857 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,192.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.48 hours
Total unit time, Tb	0.60 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	3.640 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.17 hours
Flow (Peak, Computed)	6.39 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	6.24 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	3.640 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.9 in
Runoff Volume (Pervious)	24,791.983 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	24,787.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.48 hours
Total unit time, Tb	0.60 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.18 hours
Area (User Defined)	3.640 acres
Computational Time Increment	0.02 hours
Time to Peak (Computed)	12.17 hours
Flow (Peak, Computed)	20.83 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.15 hours
Flow (Peak Interpolated Output)	20.62 ft³/s

Drainage Area	
SCS CN (Composite)	58.000
Area (User Defined)	3.640 acres
Maximum Retention (Pervious)	7.2 in
Maximum Retention (Pervious, 20 percent)	1.4 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.8 in
Runoff Volume (Pervious)	76,873.034 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	76,859.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.18 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Ex DA-6 Perv (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	22.92 ft³/s
Unit peak time, Tp	0.12 hours
Unit receding limb, Tr	0.48 hours
Total unit time, Tb	0.60 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.22 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	3,991.567 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,992.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.21 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.95 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.95 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	6,481.354 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	6,482.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.21 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.300 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	3.62 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	3.61 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	12,228.035 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,228.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	12.21 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	12.760 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	35.45 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	35.11 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	12.760 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	169,774.718 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	169,774.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	57.90 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	12.760 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	56.58 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	56.03 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	12.760 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	275,673.639 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	275,672.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	57.90 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	12.760 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.19 hours
Flow (Peak, Computed)	105.14 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	104.11 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	12.760 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	520,099.087 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	520,096.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	57.90 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	1.310 acres
Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.20 hours
Flow (Peak, Computed)	1.05 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	1.05 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	1.310 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	4,882.137 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,882.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.94 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	1.310 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.20 hours
Flow (Peak, Computed)	2.90 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	2.90 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	1.310 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.6 in
Runoff Volume (Pervious)	12,277.688 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	12,278.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.94 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	1.310 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	12.20 hours
Flow (Peak, Computed)	7.91 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.20 hours
Flow (Peak Interpolated Output)	7.91 ft³/s

Drainage Area	
SCS CN (Composite)	66.000
Area (User Defined)	1.310 acres
Maximum Retention (Pervious)	5.2 in
Maximum Retention (Pervious, 20 percent)	1.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.0 in
Runoff Volume (Pervious)	33,240.981 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	33,241.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA-6 PER (Plainsboro)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	5.94 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	1.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	1.55 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.7 in
Runoff Volume (Pervious)	5,055.983 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,057.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.84 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.08 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.47 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.46 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.0 in
Runoff Volume (Pervious)	8,209.716 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,211.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.84 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.08 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	4.58 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	4.58 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	11.2 in
Runoff Volume (Pervious)	15,488.844 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	15,491.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	17.84 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.08 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Storm Event	2yr Projected NOAA D
Return Event	2 years
Duration	48.00 hours
Depth	3.9 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.260 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.25 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.8 in
Runoff Volume (Pervious)	719.388 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	726.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.73 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Storm Event	10yr Projected NOAA D
Return Event	10 years
Duration	48.00 hours
Depth	6.2 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.260 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	0.76 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	0.76 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.1 in
Runoff Volume (Pervious)	2,013.786 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,025.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.73 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Post Developed Hydrographs Projected Rainfall

Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storm Event	100yr Projected NOAA D
Return Event	100 years
Duration	48.00 hours
Depth	11.5 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.260 acres
Computational Time Increment	0.00 hours
Time to Peak (Computed)	12.10 hours
Flow (Peak, Computed)	2.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	12.10 hours
Flow (Peak Interpolated Output)	2.18 ft³/s

Drainage Area	
SCS CN (Composite)	61.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	6.4 in
Maximum Retention (Pervious, 20 percent)	1.3 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.3 in
Runoff Volume (Pervious)	5,910.591 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	5,929.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749

Post Developed Hydrographs Projected Rainfall

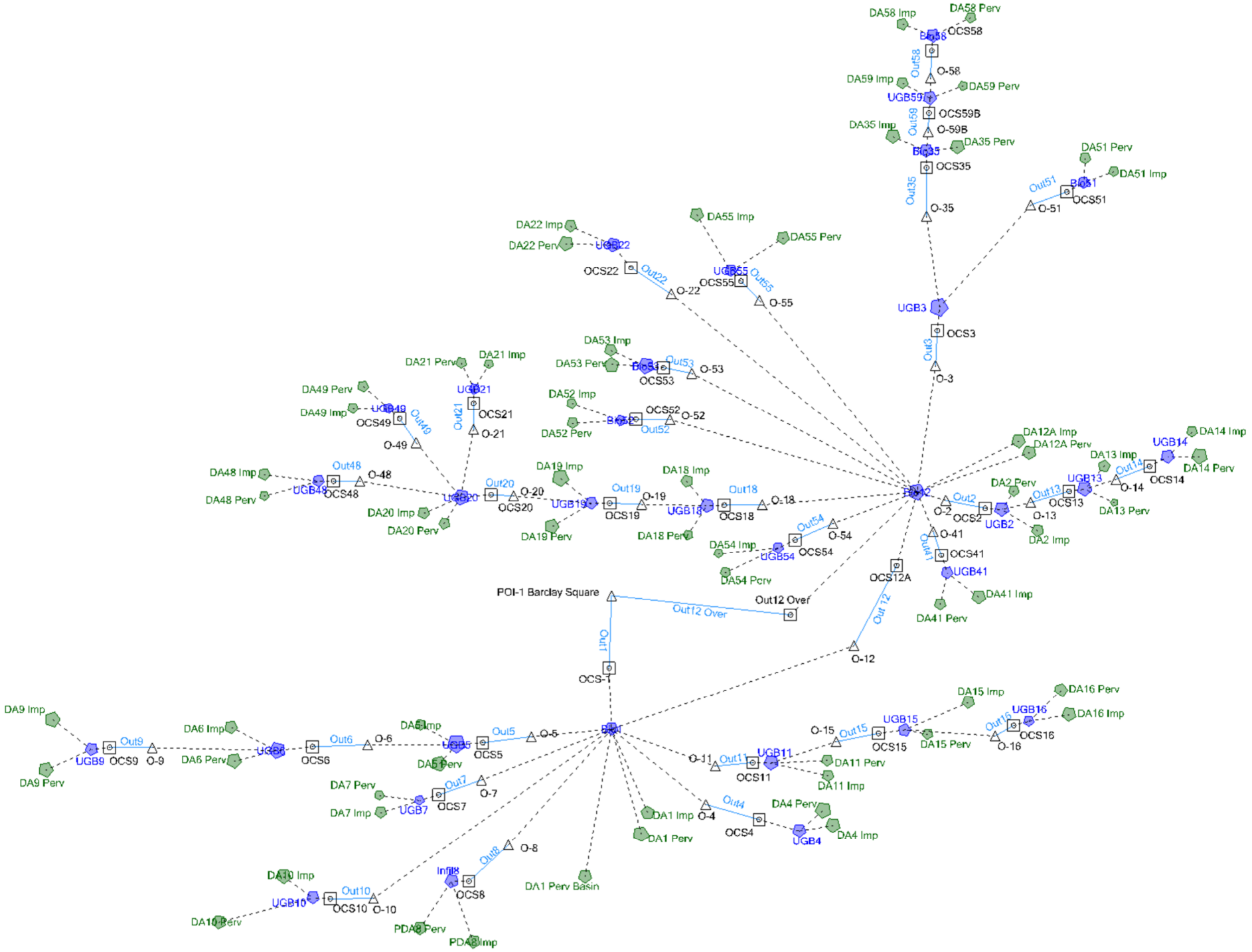
Subsection: Unit Hydrograph Summary
Label: PDA8 Perv
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

SCS Unit Hydrograph Parameters	
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	14.73 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

Appendix C

POND VOLUMES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DA58 Perv
OCS58
Out58
O-58
DA59 Imp
DA59 Perv
UGB59
OCS59B
Out59
O-59B
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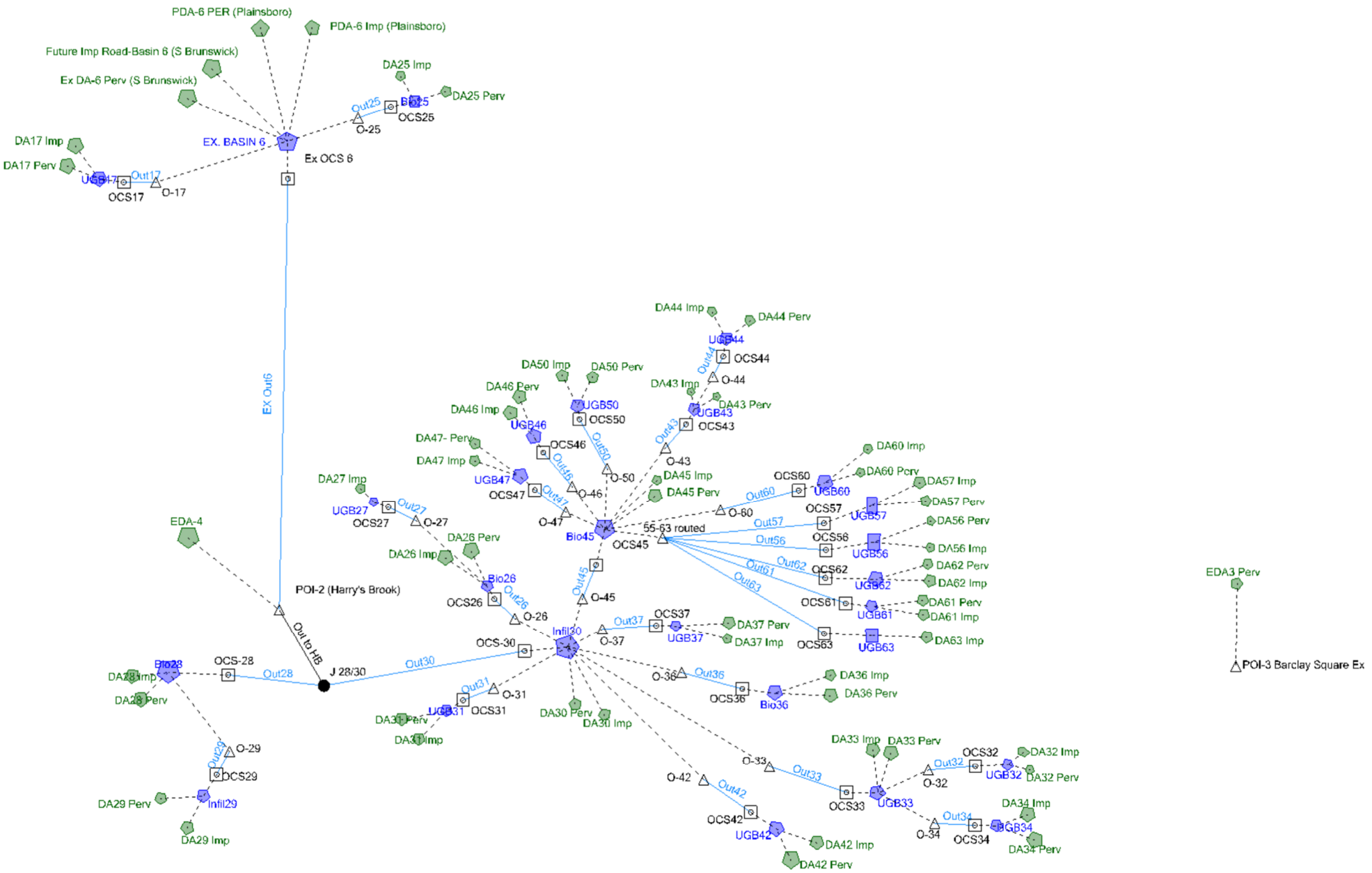
DA35 Perv
OCS35
Out35
O-35
DA51 Perv
DA51 Imp
Out51
OCS51
O-51
DA22 Imp
DA22 Perv
UGB22
OCS22
Out22
O-22
DA55 Imp
DA55 Perv
OCS55
Out55
O-55
UGB3
OCS3
Out3
O-3
DA53 Imp
DA53 Perv
Out53
OCS53
O-53
DA52 Imp
DA52 Perv
OCS52
Out52
O-52
DA21 Perv
DA21 Imp
UGB21
OCS21
Out21
O-21
DA49 Perv
DA49 Imp
OCS49
Out49
O-49
DA48 Imp
DA48 Perv
Out48
UGB48
OCS48
O-48
DA19 Imp
DA19 Perv
Out19
UGB19
OCS19
O-19
DA18 Imp
DA18 Perv
Out18
UGB18
OCS18
O-18
DA20 Imp
DA20 Perv
Out20
OCS20
O-20
DA12A Imp
DA12A Perv
DA14 Imp
UGB14
DA14 Perv
OCS14
Out14
O-14
DA13 Imp
UGB13
Out13
OCS13
O-13
DA13 Perv
DA2 Perv
Out2
O-2
OCS2
UGB2
DA2 Imp
DA54 Imp
Out54
O-54
UGB54
OCS54
DA54 Perv
O-41
Out41
OCS41
UGB41
DA41 Imp
DA41 Perv
OCS12A
POI-1 Barclay Square
Out12 Over
Out12
O-12
Out1
OCS-1
DA9 Imp
DA9 Perv
Out9
UGB9
OCS9
O-9
DA6 Imp
DA6 Perv
Out6
UGB6
OCS6
O-6
DA5 Imp
DA5 Perv
Out5
UGB5
OCS5
O-5
DA7 Perv
DA7 Imp
Out7
UGB7
OCS7
O-7
DA1 Imp
DA1 Perv
DA1 Perv Basin
O-4
Out4
OCS4
UGB4
DA4 Perv
DA4 Imp
O-11
Out11
UGB11
OCS11
DA11 Perv
DA11 Imp
O-15
Out15
UGB15
OCS15
DA15 Imp
DA15 Perv
UGB16
DA16 Perv
DA16 Imp
Out16
OCS16
O-16
DA10 Imp
DA10 Perv
Out10
UGB10
OCS10
O-10
Infill8
Out8
O-8
OCS8
PDA8 Perv
PDA8 Imp


PDA-6 PER (Plainsboro)
PDA-6 Imp (Plainsboro)
Future Imp Road-Basin 6 (S Brunswick)
Ex DA-6 Perv (S Brunswick)
DA25 Imp
DA25 Perv
Out25
Bio25
OCS25
O-25
DA17 Imp
DA17 Perv
EX. BASIN 6
Ex OCS 6
UGB17
Out17
OCS17
O-17
EX Out6
DA44 Imp
DA44 Perv
UGB44
OCS44
Out44
O-44
DA50 Imp
DA50 Perv
DA43 Imp
DA43 Perv
DA46 Perv
DA46 Imp
UGB50
OCS50
UGB43
OCS43
UGB46
OCS46
Out50
Out43
DA47- Perv
DA47 Imp
O-43
Out45
O-50
DA45 Imp
DA45 Perv
DA27 Imp
UGB47
OCS47
Out47
O-46
O-47
Out27
UGB27
OCS27
O-27
Bio45
55-63 routed
OCS45
DA60 Imp
DA60 Perv
OCS60
UGB60
Out60
O-60
DA57 Imp
DA57 Perv
OCS57
UGB57
Out57
DA56 Perv
DA56 Imp
OCS56
UGB56
Out56
DA62 Perv
DA62 Imp
Out62
OCS62
UGB62
Out61
Out63
DA61 Perv
DA61 Imp
OCS61
UGB61
DA63 Imp
OCS63
UGB63
EDA-4
DA26 Perv
DA26 Imp
Bio26
OCS26
Out26
O-26
Out45
O-45
POI-2 (Harry's Brook)
Out to HB
J 28/30
Out30
Infil30
O-37
Out37
OCS37
UGB37
DA37 Perv
DA37 Imp
OCS-30
O-36
Out36
OCS36
Bio36
DA36 Imp
DA36 Perv
Out31
O-31
UGB31
OCS31
DA30 Perv
DA30 Imp
DA31 Perv
DA31 Imp
Bio28
DA28 Imp
DA28 Perv
OCS-28
Out28
O-29
Out29
OCS29
DA29 Perv
Infil29
DA29 Imp
O-33
Out33
DA33 Imp
DA33 Perv
OCS32
DA32 Imp
Out32
O-32
UGB32
DA32 Perv
O-42
Out42
OCS33
UGB33
DA34 Imp
Out34
O-34
OCS34
UGB34
DA34 Perv
OCS42
UGB42
DA42 Imp
DA42 Perv
EDA3 Perv
POI-3 Barclay Square Ex

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio1
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
77.00	0.0	0.110	0.000	0.000	0.000
87.00	0.0	0.210	0.472	68,532.000	68,532.000
87.50	0.0	0.220	0.645	4,682.000	73,215.000
88.00	0.0	0.250	0.705	5,115.000	78,330.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio12
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
85.25	0.0	0.125	0.000	0.000	0.000
86.00	0.0	0.130	0.382	4,165.000	4,165.000
87.00	0.0	0.140	0.405	5,879.000	10,044.000
88.00	0.0	0.160	0.450	6,529.000	16,574.000
89.00	0.0	0.180	0.510	7,401.000	23,974.000
90.00	0.0	0.200	0.570	8,273.000	32,247.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio25
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
100.00	0.0	0.310	0.000	0.000	0.000
101.00	0.0	0.350	0.989	14,366.000	14,366.000
102.00	0.0	0.390	1.109	16,109.000	30,475.000
103.00	0.0	0.430	1.230	17,853.000	48,328.000
104.00	0.0	0.480	1.364	19,810.000	68,138.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio26
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
97.00	0.0	0.100	0.000	0.000	0.000
98.00	0.0	0.150	0.372	5,408.000	5,408.000
99.00	0.0	0.200	0.523	7,597.000	13,005.000
100.00	0.0	0.230	0.644	9,358.000	22,363.000
100.50	0.0	0.250	0.720	5,226.000	27,589.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio28
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
91.00	0.0	0.095	0.000	0.000	0.000
92.00	0.0	0.110	0.307	4,461.000	4,461.000
93.00	0.0	0.125	0.352	5,115.000	9,576.000
94.00	0.0	0.142	0.400	5,811.000	15,387.000
95.00	0.0	0.160	0.453	6,574.000	21,961.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio35
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
103.40	0.0	0.090	0.000	0.000	0.000
104.00	0.0	0.110	0.299	2,609.000	2,609.000
105.00	0.0	0.130	0.360	5,221.000	7,830.000
106.00	0.0	0.160	0.434	6,305.000	14,135.000
107.00	0.0	0.190	0.524	7,614.000	21,749.000
108.00	0.0	0.220	0.614	8,922.000	30,671.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio36
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
98.00	0.0	0.017	0.000	0.000	0.000
99.00	0.0	0.026	0.064	930.000	930.000
100.00	0.0	0.035	0.091	1,324.000	2,253.000
101.00	0.0	0.046	0.121	1,759.000	4,012.000
102.00	0.0	0.061	0.160	2,323.000	6,335.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio45
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
96.50	0.0	0.280	0.000	0.000	0.000
97.00	0.0	0.300	0.870	6,315.000	6,315.000
98.00	0.0	0.330	0.945	13,716.000	20,031.000
99.00	0.0	0.370	1.049	15,238.000	35,269.000
100.00	0.0	0.410	1.169	16,981.000	52,250.000
101.00	0.0	0.450	1.290	18,724.000	70,974.000
101.50	0.0	0.500	1.424	10,341.000	81,315.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio51
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
102.00	0.0	0.060	0.000	0.000	0.000
103.00	0.0	0.080	0.209	3,039.000	3,039.000
104.00	0.0	0.094	0.261	3,786.000	6,824.000
105.00	0.0	0.110	0.306	4,439.000	11,263.000
106.00	0.0	0.140	0.374	5,432.000	16,695.000
106.50	0.0	0.150	0.435	3,157.000	19,852.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio52
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
100.10	0.0	0.029	0.000	0.000	0.000
101.00	0.0	0.040	0.103	1,347.000	1,347.000
102.00	0.0	0.055	0.142	2,060.000	3,407.000
103.00	0.0	0.070	0.187	2,716.000	6,123.000
104.00	0.0	0.086	0.234	3,392.000	9,515.000
105.00	0.0	0.110	0.293	4,258.000	13,773.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio53
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
104.50	0.0	0.014	0.000	0.000	0.000
105.00	0.0	0.026	0.059	429.000	429.000
106.00	0.0	0.040	0.098	1,427.000	1,855.000
107.00	0.0	0.060	0.149	2,163.000	4,019.000
108.00	0.0	0.075	0.202	2,934.000	6,953.000
109.00	0.0	0.088	0.244	3,546.000	10,499.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Bio58
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
106.40	0.0	0.150	0.000	0.000	0.000
107.00	0.0	0.170	0.480	4,179.000	4,179.000
108.00	0.0	0.200	0.554	8,050.000	12,229.000
109.00	0.0	0.240	0.659	9,570.000	21,799.000
110.00	0.0	0.270	0.765	11,101.000	32,900.000
111.00	0.0	0.310	0.869	12,622.000	45,523.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: EX. BASIN 6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
89.00	0.0	1.300	0.000	0.000	0.000
89.50	0.0	1.360	3.990	28,965.000	28,965.000
90.00	0.0	1.420	4.170	30,272.000	59,237.000
90.50	0.0	1.490	4.365	31,687.000	90,924.000
91.00	0.0	1.550	4.560	33,103.000	124,027.000
91.35	0.0	1.600	4.725	24,011.000	148,039.000
91.50	0.0	1.620	4.830	10,520.000	158,558.000
92.00	0.0	1.680	4.950	35,935.000	194,493.000
92.50	0.0	1.750	5.145	37,350.000	231,843.000
93.00	0.0	1.820	5.355	38,875.000	270,718.000
93.50	0.0	1.890	5.565	40,400.000	311,118.000
94.00	0.0	1.970	5.790	42,032.000	353,150.000
94.50	0.0	2.040	6.015	43,667.000	396,817.000
95.00	0.0	2.110	6.225	45,191.000	442,008.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: INFIL29
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
93.00	0.0	0.008	0.000	0.000	0.000
94.00	0.0	0.020	0.041	590.000	590.000
95.00	0.0	0.032	0.077	1,122.000	1,713.000
96.00	0.0	0.046	0.116	1,690.000	3,402.000
96.50	0.0	0.054	0.150	1,088.000	4,490.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Infil30
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
91.40	0.0	0.530	0.000	0.000	0.000
92.00	0.0	0.710	1.853	16,147.000	16,147.000
93.00	0.0	0.760	2.205	32,010.000	48,158.000
94.00	0.0	0.810	2.355	34,189.000	82,346.000
95.00	0.0	0.860	2.505	36,367.000	118,714.000
96.00	0.0	0.910	2.655	38,545.000	157,259.000
96.50	0.0	0.940	2.775	20,146.000	177,405.000

Basin Volumes

Subsection: Elevation-Area Volume Curve
Label: Infil8
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)	Volume (Total) (ft³)
109.50	0.0	0.100	0.000	0.000	0.000
110.00	0.0	0.110	0.315	2,286.000	2,286.000
111.00	0.0	0.130	0.360	5,221.000	7,507.000
112.00	0.0	0.160	0.434	6,305.000	13,812.000

Basin Volumes

Subsection: Storage Chamber System
Label: UGB10
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB10
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	106.00 ft
Chamber System Rows	6
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB11
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	215	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB11
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
Label	SC-310 Chamber

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft

Storage Chamber (Pond)	
Chamber System Invert	84.08 ft
Chamber System Rows	5
Chambers per Row	9
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB11
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-310 Chamber
Chambers In Header	2
Chamber System Header Distance	2.00 ft

Chamber System Header			
ID	215	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-310 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12

Basin Volumes

Subsection: Storage Chamber System
Label: UGB11
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft

Subsection: Storage Chamber System
Label: UGB13
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29

Basin Volumes

Subsection: Storage Chamber System
Label: UGB13
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	86.00 ft
Chamber System Rows	2
Chambers per Row	8
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB13
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB14
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25

Basin Volumes

Subsection: Storage Chamber System
Label: UGB14
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	86.25 ft
Chamber System Rows	2
Chambers per Row	8
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Basin Volumes

Subsection: Storage Chamber System
Label: UGB15
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Basin Volumes

Subsection: Storage Chamber System
Label: UGB15
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	92.00 ft
Chamber System Rows	14
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB16
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31

Basin Volumes

Subsection: Storage Chamber System
Label: UGB16
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	94.00 ft
Chamber System Rows	20
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB16
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB17
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27

Basin Volumes

Subsection: Storage Chamber System
Label: UGB17
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	110.50 ft
Chamber System Rows	10
Chambers per Row	33
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V

Basin Volumes

Subsection: Storage Chamber System
Label: UGB17
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB18
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17

Basin Volumes

Subsection: Storage Chamber System
Label: UGB18
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	94.00 ft
Chamber System Rows	3
Chambers per Row	9
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-800 Chamber
Chambers In Header	2
Chamber System Header Distance	2.00 ft

Chamber System Header		
ID	502	Notes
Label	SC-800 Chamber	

Basin Volumes

Subsection: Storage Chamber System
Label: UGB18
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Basin Volumes

Subsection: Storage Chamber System
Label: UGB19
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Basin Volumes

Subsection: Storage Chamber System
Label: UGB19
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	94.50 ft
Chamber System Rows	3
Chambers per Row	9
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-800 Chamber
Chambers In Header	1
Chamber System Header Distance	2.00 ft

Chamber System Header			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31

Basin Volumes

Subsection: Storage Chamber System
Label: UGB19
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Subsection: Storage Chamber System
Label: UGB2
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			

Basin Volumes

Subsection: Storage Chamber System
Label: UGB2
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	215	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-310 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft

Storage Chamber (Pond)	
Chamber System Invert	85.25 ft
Chamber System Rows	4
Chambers per Row	34

Basin Volumes

Subsection: Storage Chamber System
Label: UGB2
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB20
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29

Basin Volumes

Subsection: Storage Chamber System
Label: UGB20
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	97.10 ft
Chamber System Rows	5
Chambers per Row	29
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB20
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-740 Chamber
Chambers In Header	2
Chamber System Header Distance	2.00 ft

Chamber System Header			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26

Basin Volumes

Subsection: Storage Chamber System
Label: UGB20
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Subsection: Storage Chamber System
Label: UGB21
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Basin Volumes

Subsection: Storage Chamber System
Label: UGB21
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	98.00 ft
Chamber System Rows	3
Chambers per Row	6

Basin Volumes

Subsection: Storage Chamber System
Label: UGB21
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB22
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29

Basin Volumes

Subsection: Storage Chamber System
Label: UGB22
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	107.00 ft
Chamber System Rows	10
Chambers per Row	29
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB22
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB27
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21

Basin Volumes

Subsection: Storage Chamber System
Label: UGB27
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	99.00 ft
Chamber System Rows	4
Chambers per Row	15
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Elevation vs. Volume Curve
Label: UGB3
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Basin Volumes

Subsection: Elevation vs. Volume Curve
Label: UGB3
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ft³)
85.50	0.000
86.00	1,772.000
86.50	2,829.000
87.00	3,937.000
87.50	5,076.000
88.00	6,229.000
88.50	7,381.000
89.00	8,519.000
89.50	9,628.000
90.00	10,684.000
90.50	11,639.000
91.00	13,273.000

Basin Volumes

Subsection: Volume Void Adjustments
Label: UGB3
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Volume Complete Filled With Material (Adjust Volumes for Voids)

Void Space = 100.0 %

Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)
85.50	0.000	0.000
86.00	1,772.000	1,772.000
86.50	2,829.000	2,829.000
87.00	3,937.000	3,937.000
87.50	5,076.000	5,076.000
88.00	6,229.000	6,229.000
88.50	7,381.000	7,381.000
89.00	8,519.000	8,519.000
89.50	9,628.000	9,628.000
90.00	10,684.000	10,684.000
90.50	11,639.000	11,639.000
91.00	13,273.000	13,273.000

Basin Volumes

Subsection: Storage Chamber System
Label: UGB31
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB31
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)

Chamber System Invert	92.60 ft
Chamber System Rows	6
Chambers per Row	15
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-740 Chamber
Chambers In Header	3
Chamber System Header Distance	2.00 ft

Chamber System Header

ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB31
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Chamber System Header

Label	SC-740 Chamber

Storage Chamber

Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB31
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Subsection: Storage Chamber System
Label: UGB32
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22

Basin Volumes

Subsection: Storage Chamber System
Label: UGB32
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	109.75 ft
Chamber System Rows	10
Chambers per Row	29
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB33
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Basin Volumes

Subsection: Storage Chamber System
Label: UGB33
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB33
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	105.82 ft
Chamber System Rows	4
Chambers per Row	15
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB34
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
ID	215	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB34
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
Label	SC-310 Chamber

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft

Storage Chamber (Pond)	
Chamber System Invert	109.50 ft
Chamber System Rows	6
Chambers per Row	25
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB34
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB37
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27

Basin Volumes

Subsection: Storage Chamber System
Label: UGB37
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	103.50 ft
Chamber System Rows	4
Chambers per Row	15
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB37
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB4
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15

Basin Volumes

Subsection: Storage Chamber System
Label: UGB4
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	85.10 ft
Chamber System Rows	8
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-800 Chamber
Chambers In Header	4
Chamber System Header Distance	2.00 ft

Chamber System Header			
ID	502	Notes	
Label	SC-800 Chamber		

Basin Volumes

Subsection: Storage Chamber System
Label: UGB4
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Basin Volumes

Subsection: Storage Chamber System
Label: UGB41
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	215	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-310 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft

Storage Chamber (Pond)	
Chamber System Invert	104.00 ft
Chamber System Rows	2
Chambers per Row	6

Basin Volumes

Subsection: Storage Chamber System
Label: UGB41
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-310 Chamber
Chambers In Header	1
Chamber System Header Distance	2.00 ft

Chamber System Header			
ID	215	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-310 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17

Basin Volumes

Subsection: Storage Chamber System
Label: UGB41
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft

Subsection: Storage Chamber System
Label: UGB42
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31

Basin Volumes

Subsection: Storage Chamber System
Label: UGB42
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	95.00 ft
Chamber System Rows	4
Chambers per Row	13
Chamber System Fill Void Space	40.0 %

Basin Volumes

Subsection: Storage Chamber System
Label: UGB42
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB43
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28

Basin Volumes

Subsection: Storage Chamber System
Label: UGB43
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	98.00 ft
Chamber System Rows	4
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB43
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB44
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24

Basin Volumes

Subsection: Storage Chamber System
Label: UGB44
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	101.00 ft
Chamber System Rows	4
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Basin Volumes

Subsection: Storage Chamber System
Label: UGB46
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Basin Volumes

Subsection: Storage Chamber System
Label: UGB46
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	103.00 ft
Chamber System Rows	2
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB47
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31

Basin Volumes

Subsection: Storage Chamber System
Label: UGB47
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	108.00 ft
Chamber System Rows	4
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB47
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB48
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27

Basin Volumes

Subsection: Storage Chamber System
Label: UGB48
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	100.90 ft
Chamber System Rows	3
Chambers per Row	4
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V

Basin Volumes

Subsection: Storage Chamber System
Label: UGB48
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB49
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22

Basin Volumes

Subsection: Storage Chamber System
Label: UGB49
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	102.70 ft
Chamber System Rows	3
Chambers per Row	4
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-740 Chamber
Chambers In Header	2
Chamber System Header Distance	2.00 ft

Basin Volumes

Subsection: Storage Chamber System
Label: UGB49
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Chamber System Header			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB49
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Subsection: Storage Chamber System
Label: UGB5
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28

Basin Volumes

Subsection: Storage Chamber System
Label: UGB5
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	94.00 ft
Chamber System Rows	4
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB5
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB50
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19

Basin Volumes

Subsection: Storage Chamber System
Label: UGB50
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	101.00 ft
Chamber System Rows	2
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB54
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB54
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	215	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-310 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft

Storage Chamber (Pond)	
Chamber System Invert	99.00 ft
Chamber System Rows	3
Chambers per Row	7

Basin Volumes

Subsection: Storage Chamber System
Label: UGB54
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-310 Chamber
Chambers In Header	3
Chamber System Header Distance	2.00 ft

Chamber System Header			
ID	215	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-310 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.20
0.17	0.20
0.25	0.19
0.33	0.19
0.42	0.18
0.50	0.17

Basin Volumes

Subsection: Storage Chamber System
Label: UGB54
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.58	0.16
0.67	0.15
0.75	0.14
0.83	0.13
0.92	0.12
1.00	0.10
1.08	0.08
1.17	0.04
1.25	0.02
1.33	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	2.83 ft

Subsection: Storage Chamber System
Label: UGB55
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31

Basin Volumes

Subsection: Storage Chamber System
Label: UGB55
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	106.00 ft
Chamber System Rows	20
Chambers per Row	20
Chamber System Fill Void Space	40.0 %

Basin Volumes

Subsection: Storage Chamber System
Label: UGB55
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB56
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28

Basin Volumes

Subsection: Storage Chamber System
Label: UGB56
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	110.00 ft
Chamber System Rows	27
Chambers per Row	23
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB56
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB57
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24

Basin Volumes

Subsection: Storage Chamber System
Label: UGB57
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	111.10 ft
Chamber System Rows	12
Chambers per Row	28
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Basin Volumes

Subsection: Elevation vs. Volume Curve
Label: UGB59
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ft³)
104.00	0.000
104.50	8,977.000
107.12	50,781.000
107.62	52,221.000

Basin Volumes

Subsection: Storage Chamber System
Label: UGB6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	94.00 ft
Chamber System Rows	4
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB60
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176		
		Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.

Basin Volumes

Subsection: Storage Chamber System
Label: UGB60
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber	
Label	SC-740 Chamber

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber

Basin Volumes

Subsection: Storage Chamber System
Label: UGB60
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	111.10 ft
Chamber System Rows	12
Chambers per Row	28
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB61
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Basin Volumes

Subsection: Storage Chamber System
Label: UGB61
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft^3/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	107.75 ft
Chamber System Rows	4
Chambers per Row	18

Basin Volumes

Subsection: Storage Chamber System
Label: UGB61
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB62
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176		
		Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29

Basin Volumes

Subsection: Storage Chamber System
Label: UGB62
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	108.00 ft
Chamber System Rows	14
Chambers per Row	29
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in

Basin Volumes

Subsection: Storage Chamber System
Label: UGB62
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber (Pond)	
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Subsection: Storage Chamber System
Label: UGB63
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25

Basin Volumes

Subsection: Storage Chamber System
Label: UGB63
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	104.00 ft
Chamber System Rows	14
Chambers per Row	14
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

Basin Volumes

Subsection: Storage Chamber System
Label: UGB7
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Basin Volumes

Subsection: Storage Chamber System
Label: UGB7
Scenario: 100YR Projected

Return Event: 100 years
Storage Event: 100yr Projected NOAA D

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	99.00 ft
Chamber System Rows	8
Chambers per Row	7
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	True
Chamber System Header	SC-800 Chamber
Chambers In Header	5
Chamber System Header Distance	2.00 ft

Chamber System Header			
ID	502	Notes	
Label	SC-800 Chamber		

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31

Basin Volumes

Subsection: Storage Chamber System
Label: UGB7
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09
2.33	0.05
2.42	0.04
2.72	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Subsection: Storage Chamber System
Label: UGB9
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
ID	176	Notes	Created on 02/10/2010. Please check with the manufacturer for the latest data.
Label	SC-740 Chamber		

Basin Volumes

Subsection: Storage Chamber System
Label: UGB9
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Storage Chamber			
Effective Length	7.12 ft	Manufacturer	StormTech
Section Length Varies?	False	Default Spacing	0.50 ft

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft³/ft)
0.08	0.31
0.17	0.31
0.25	0.31
0.33	0.30
0.42	0.30
0.50	0.30
0.58	0.29
0.67	0.29
0.75	0.28
0.83	0.28
0.92	0.27
1.00	0.27
1.08	0.26
1.17	0.25
1.25	0.25
1.33	0.24
1.42	0.23
1.50	0.22
1.58	0.21
1.67	0.20
1.75	0.19
1.83	0.18
1.92	0.17
2.00	0.15
2.08	0.13
2.17	0.11
2.25	0.09

Basin Volumes

Subsection: Storage Chamber System
Label: UGB9
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Depth-Incremental Volume Per Unit Length Curve

Depth (ft)	Incremental Volume Per Unit Length (ft^3/ft)
2.33	0.04
2.42	0.02
2.50	0.01

Storage Chamber			
Storage Chamber Type	Incremental Volume Per Unit Length	Maximum Width	4.25 ft

Storage Chamber (Pond)	
Chamber System Invert	100.30 ft
Chamber System Rows	4
Chambers per Row	9
Chamber System Fill Void Space	40.0 %
Chamber System Row Spacing	6.0 in
Chamber System Side Fill	12.0 in
Chamber System Fill Cover Depth	6.0 in
Chamber System Fill Base Depth	6.0 in
Chamber System Fill Side Slope	1.000 H:V
Chamber System End Fill	12.0 in
Chamber System Includes Header?	False

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OCS data

Subsection: Outlet Input Data
Label: BIO1
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	77.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	88.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
User Defined Table	E Grate	Forward	TW	0.00	88.00
Orifice-Circular	O1-1	Forward	TW	77.52	88.00
Rectangular Weir	W1 - 2	Forward	TW	84.65	88.00
Rectangular Weir	W1-3	Forward	TW	85.55	88.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO1
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O1-1 Structure Type: Orifice-Circular	
Number of Openings	2
Elevation	77.52 ft
Orifice Diameter	7.0 in
Orifice Coefficient	0.600

Structure ID: W1 - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	84.65 ft
Weir Length	3.90 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: E Grate
Structure Type: User Defined Table

Elevation (ft)	Flow (ft³/s)
77.00	0.00
86.50	0.00
87.00	13.00
88.00	14.50

Structure ID: W1-3 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	85.55 ft
Weir Length	4.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	30 inch
Channel Slope	0.010 ft/ft
Channel Invert Elevation	75.00 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft

OCS data

Subsection: Outlet Input Data
Label: BIO1
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Convergence Tolerances	
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: BIO12A
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	85.25 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	90.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W12-1	Forward	TW	86.15	90.00
Rectangular Weir	W12 - 2	Forward	TW	87.00	90.00
Rectangular Weir	W12 - 3	Forward	TW	88.00	90.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO12A
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W12-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	86.15 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W12 - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	87.00 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W12 - 3 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	88.00 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	30 inch
Channel Slope	0.010 ft/ft
Channel Invert Elevation	84.95 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: BIO25
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	100.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	104.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	W25-1	Forward	TW	101.35	104.00
Rectangular Weir	W25-2	Forward	TW	102.00	104.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO25
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W25-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	102.00 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W25-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	101.35 ft
Orifice Diameter	3.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: BIO26
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	97.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	100.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	Weir - 2	Forward	TW	98.50	100.50
Inlet Box	Riser - 1	Forward	TW	99.87	100.50
Rectangular Weir	W26-1	Forward	TW	97.80	100.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO26
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W26-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	97.80 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: Weir - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	98.50 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: Riser - 1 Structure Type: Inlet Box	
Number of Openings	1
Elevation	99.87 ft
Orifice Area	1.5 ft²
Orifice Coefficient	0.600
Weir Length	5.28 ft
Weir Coefficient	3.00 (ft^0.5)/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	True

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	30 inch
Channel Slope	0.003 ft/ft
Channel Invert Elevation	95.21 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft

OCS data

Subsection: Outlet Input Data
Label: BIO26
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Convergence Tolerances	
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: BIO28
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	91.00 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	95.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W28-1	Forward	TW	91.50	95.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO28
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W28-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	91.50 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	24 inch
Channel Slope	0.009 ft/ft
Channel Invert Elevation	91.00 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

OCS data

Subsection: Outlet Input Data
Label: BIO35
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	103.40 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	108.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O35-1	Forward	TW	103.90	108.00
Rectangular Weir	W35-2	Forward	TW	105.75	108.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO35
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O35-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	103.90 ft
Orifice Diameter	4.0 in
Orifice Coefficient	0.600

Structure ID: W35-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	105.75 ft
Weir Length	3.25 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	24 inch
Channel Slope	0.005 ft/ft
Channel Invert Elevation	103.40 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: BIO36
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	98.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	102.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W36-1	Forward	TW	98.75	102.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO36
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W36-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	98.75 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: BIO45
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	96.50 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	101.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W45-1	Forward	TW	97.08	101.50
Rectangular Weir	W45-2	Forward	TW	98.75	101.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO45
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W45-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	97.08 ft
Weir Length	0.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W45-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	98.75 ft
Weir Length	6.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

OCS data

Subsection: Outlet Input Data
Label: BIO51
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	102.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	106.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W51-1	Forward	TW	103.00	106.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO51
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W51-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	103.00 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: BIO52
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	100.10 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	105.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W52-1	Forward	TW	100.83	105.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO52
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W52-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	100.83 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: BIO53
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	104.50 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	109.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W53-1	Forward	TW	105.45	109.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO53
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W53-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	105.45 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: BIO58
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	106.40 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	111.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W58-1	Forward	TW	107.15	111.00
Rectangular Weir	W58 - 2	Forward	TW	108.75	111.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: BIO58
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W58-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	107.15 ft
Weir Length	0.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W58 - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	108.75 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

OCS data

Subsection: Outlet Input Data
Label: Ex Basin 6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	89.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	95.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O EX6-1	Forward	TW	90.00	95.00
Rectangular Weir	W EX6-2	Forward	TW	91.35	95.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: Ex Basin 6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O EX6-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	90.00 ft
Orifice Diameter	3.0 in
Orifice Coefficient	0.600

Structure ID: W EX6-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	91.35 ft
Weir Length	2.50 ft
Weir Coefficient	3.20 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	18 inch
Channel Slope	1.600 ft/ft
Channel Invert Elevation	84.20 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

OCS data

Subsection: Outlet Input Data
Label: INFIL29
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	93.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	96.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 1	Forward	TW	95.90	96.50
Rectangular Weir	W29-1	Forward	TW	94.30	96.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: INFIL29
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W29-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	94.30 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: Riser - 1 Structure Type: Inlet Box	
Number of Openings	1
Elevation	95.90 ft
Orifice Area	1.5 ft²
Orifice Coefficient	0.600
Weir Length	5.28 ft
Weir Coefficient	3.00 (ft^0.5)/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	True

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: INFIL30
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	91.40 ft
Increment (Headwater)	0.01 ft
Maximum (Headwater)	96.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	Orifice - 1	Forward	TW	91.45	96.50
Rectangular Weir	W30-1	Forward	TW	92.62	96.50
Rectangular Weir	Weir - 2	Forward	TW	93.52	96.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: INFIL30
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W30-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	92.62 ft
Weir Length	2.25 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: Weir - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	93.52 ft
Weir Length	4.33 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: Orifice - 1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	91.45 ft
Orifice Diameter	2.5 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	24 inch
Channel Slope	0.009 ft/ft
Channel Invert Elevation	91.00 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: Infil8
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	109.50 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	112.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W8 - 2	Forward	TW	110.75	112.00
Inlet Box	Riser - 1	Forward	TW	111.48	112.00
Orifice-Circular	O8-1	Forward	TW	109.76	112.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: Infil8
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O8-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	109.76 ft
Orifice Diameter	10.0 in
Orifice Coefficient	0.600

Structure ID: Riser - 1 Structure Type: Inlet Box	
Number of Openings	1
Elevation	111.48 ft
Orifice Area	2.9 ft²
Orifice Coefficient	0.600
Weir Length	6.96 ft
Weir Coefficient	3.00 (ft^0.5)/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	True

Structure ID: W8 - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	110.75 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s

OCS data

Subsection: Outlet Input Data
Label: Infil8
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Convergence Tolerances	
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: Overflow 12
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	88.75 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	90.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
User Defined Table	E Grate	Forward	TW	0.00	90.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: Overflow 12
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: E Grate Structure Type: User Defined Table	
Elevation (ft)	Flow (ft³/s)
88.75	0.00
89.00	9.30
89.08	13.00
89.25	14.00
90.00	14.50

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB10
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	106.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	109.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W10-1	Forward	TW	107.00	109.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB10
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W10-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	107.00 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB11
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	84.08 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	86.41 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W11-1	Forward	TW	85.01	86.41
Rectangular Weir	W11-2	Forward	TW	85.25	86.41
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB11
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W11-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	85.01 ft
Weir Length	3.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W11-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	85.25 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	24 inch
Channel Slope	0.005 ft/ft
Channel Invert Elevation	84.00 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB13
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	86.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	89.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W13-1	Forward	TW	87.00	89.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB13
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W13-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	87.00 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

OCS data

Subsection: Outlet Input Data
Label: UGB14
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	86.25 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	89.75 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O14-1	Forward	TW	87.23	89.75
Rectangular Weir	W14-2	Forward	TW	88.40	89.75
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB14
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O14-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	87.23 ft
Orifice Diameter	8.0 in
Orifice Coefficient	0.600

Structure ID: W14-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	88.40 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

OCS data

Subsection: Outlet Input Data
Label: UGB15
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	92.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	95.72 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W15-1	Forward	TW	92.63	95.72
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB15
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W15-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	92.63 ft
Weir Length	1.75 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB16
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	94.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	97.72 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W16-1	Forward	TW	94.63	97.72
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB16
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W16-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	94.63 ft
Weir Length	0.75 ft
Weir Coefficient	3.00 (ft^0.5)/s

OCS data

Subsection: Outlet Input Data
Label: UGB17
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	110.50 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	114.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W17-1	Forward	TW	111.50	114.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB17
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W17-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	111.50 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB18
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	94.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	97.72 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W18-1	Forward	TW	95.24	97.72
Rectangular Weir	W18- 2	Forward	TW	96.50	97.72
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB18
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W18-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	95.24 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W18- 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	96.50 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	18 inch
Channel Slope	0.027 ft/ft
Channel Invert Elevation	93.80 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB19
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	94.50 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	98.22 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O19-1	Forward	TW	95.06	98.22
Rectangular Weir	W19-2	Forward	TW	95.50	98.22
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB19
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O19-1 Structure Type: Orifice-Circular	
Number of Openings	3
Elevation	95.06 ft
Orifice Diameter	3.5 in
Orifice Coefficient	0.600

Structure ID: W19-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	95.50 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

OCS data

Subsection: Outlet Input Data
Label: UGB2
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	85.25 ft
Increment (Headwater)	0.05 ft
Maximum (Headwater)	87.58 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W2-1	Forward	TW	86.25	87.58
Rectangular Weir	W2-2	Forward	TW	87.00	87.58
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB2
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W2-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	86.25 ft
Weir Length	1.75 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W2-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	87.00 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.05 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.05 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB20
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	97.10 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	100.60 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O20-1	Forward	TW	97.72	100.60
Rectangular Weir	W20 - 2	Forward	TW	98.80	100.60
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB20
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O20-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	97.72 ft
Orifice Diameter	10.0 in
Orifice Coefficient	0.600

Structure ID: W20 - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	98.80 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	10 inch
Channel Slope	0.032 ft/ft
Channel Invert Elevation	97.03 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB21
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	98.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	101.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W21-1	Forward	TW	99.25	101.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB21
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W21-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	99.25 ft
Weir Length	0.75 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB22
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	107.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	110.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W22-2	Forward	TW	108.00	110.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB22
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W22-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	108.00 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB27
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	99.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	102.72 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	weir - 1	Forward	TW	100.72	102.72
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB27
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	100.72 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB3
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	85.50 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	90.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W3- 1	Forward	TW	85.50	91.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB3
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W3- 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	85.50 ft
Weir Length	0.75 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Downstream Channel
Catalog Conduit	24 inch
Channel Slope	0.012 ft/ft
Channel Invert Elevation	85.50 ft

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB31
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	92.60 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	96.10 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O31-1	Forward	TW	93.18	96.10
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB31
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O31-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	93.18 ft
Orifice Diameter	10.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB32
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	109.75 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	113.25 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W32-1	Forward	TW	110.50	113.25
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB32
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W32-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	110.50 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB33
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	105.82 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	109.32 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W33-1	Forward	TW	106.40	109.32
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB33
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W33-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	106.40 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB34
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	109.50 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	111.83 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O34-1	Forward	TW	110.00	111.83
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB34
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O34-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	110.00 ft
Orifice Diameter	8.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB37
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	103.50 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	107.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W37-1	Forward	TW	104.50	107.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB37
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W37-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	104.50 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB4
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	85.10 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	88.82 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W4-1	Forward	TW	86.10	88.82
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB4
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W4-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	86.10 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB41
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	104.00 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	106.33 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O41-1	Forward	TW	104.79	106.33
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB41
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O41-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	104.79 ft
Orifice Diameter	8.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB42
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	95.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	98.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W42-1	Forward	TW	96.00	98.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB42
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W42-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	96.00 ft
Weir Length	0.75 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB43
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	98.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	101.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W43-1	Forward	TW	99.00	101.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB43
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W43-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	99.00 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB44
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	101.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	104.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W44-1	Forward	TW	102.00	104.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB44
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W44-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	102.00 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB46
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	103.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	106.72 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O46-1	Forward	TW	104.34	106.72
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB46
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O46-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	104.34 ft
Orifice Diameter	10.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB47
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	108.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	111.72 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O47-1	Forward	TW	108.83	111.72
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB47
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O47-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	108.83 ft
Orifice Diameter	10.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

OCS data

Subsection: Outlet Input Data
Label: UGB48
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	100.90 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	104.40 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O48-1	Forward	TW	101.70	104.40
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB48
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O48-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	101.70 ft
Orifice Diameter	15.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB49
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	102.70 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	106.20 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O49-1	Forward	TW	103.64	106.20
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB49
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O49-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	103.64 ft
Orifice Diameter	15.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB5
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	94.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	97.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O5-1	Forward	TW	95.00	97.50
Rectangular Weir	W5-2	Forward	TW	96.90	97.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB5
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O5-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	95.00 ft
Orifice Diameter	8.0 in
Orifice Coefficient	0.600

Structure ID: W5-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	96.90 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB50
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	101.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	104.72 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O50-1	Forward	TW	102.80	104.72
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB50
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O50-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	102.80 ft
Orifice Diameter	12.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB54
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	99.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	101.33 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O54-1	Forward	TW	99.63	101.33
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB54
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O54-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	99.63 ft
Orifice Diameter	12.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB55
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	106.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	109.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W55-1	Forward	TW	106.79	109.50
Rectangular Weir	W55-2	Forward	TW	107.50	109.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB55
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W55-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	106.79 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W55-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	107.50 ft
Weir Length	2.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB56
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	110.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	113.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W56-1	Forward	TW	111.00	113.50
Rectangular Weir	W56 - 2	Forward	TW	112.50	113.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB56
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W56-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	111.00 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W56 - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	112.50 ft
Weir Length	2.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB57
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	111.10 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	114.60 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W57-1	Forward	TW	112.50	114.60
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB57
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W57-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	112.50 ft
Weir Length	0.75 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB59
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	104.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	107.62 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W59-1	Forward	TW	105.00	107.62
Rectangular Weir	W59 - 2	Forward	TW	105.50	107.62
Rectangular Weir	W59 - 3	Forward	TW	106.50	107.62
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB59
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W59-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	105.00 ft
Weir Length	1.25 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W59 - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	105.50 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W59 - 3 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	106.50 ft
Weir Length	3.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

OCS data

Subsection: Outlet Input Data
Label: UGB6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	94.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	97.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W6-1	Forward	TW	95.00	97.50
Rectangular Weir	Weir - 2	Forward	TW	97.45	97.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W6-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	95.00 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: Weir - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	97.45 ft
Weir Length	4.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

OCS data

Subsection: Outlet Input Data
Label: UGB60
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	111.10 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	114.60 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W60-1	Forward	TW	112.10	114.60
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB60
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W60-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	112.10 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB61
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	107.75 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	111.25 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O61-1	Forward	TW	108.25	111.25
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB61
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O61-1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	108.25 ft
Orifice Diameter	8.0 in
Orifice Coefficient	0.600

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB62
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	108.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	111.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	O62 - 1	Forward	TW	108.66	111.50
Rectangular Weir	W62-2	Forward	TW	110.05	111.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB62
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: O62 - 1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	108.66 ft
Orifice Diameter	8.0 in
Orifice Coefficient	0.600

Structure ID: W62-2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	110.05 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB63
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	104.00 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	107.50 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W63-1	Forward	TW	105.00	107.50
Rectangular Weir	W63 - 2	Forward	TW	106.00	107.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB63
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W63-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	105.00 ft
Weir Length	0.83 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: W63 - 2 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	106.00 ft
Weir Length	1.75 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB7
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	99.00 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	102.72 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Circular	Orifice - 1	Forward	TW	99.65	102.72
Rectangular Weir	Weir - 1	Forward	TW	101.82	102.72
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB7
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: Orifice - 1 Structure Type: Orifice-Circular	
Number of Openings	1
Elevation	99.65 ft
Orifice Diameter	8.0 in
Orifice Coefficient	0.600

Structure ID: Weir - 1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	101.82 ft
Weir Length	1.00 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.10 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.10 ft
Flow Tolerance (Minimum)	0.001 ft³/s
Flow Tolerance (Maximum)	10.000 ft³/s

OCS data

Subsection: Outlet Input Data
Label: UGB9
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Requested Pond Water Surface Elevations	
Minimum (Headwater)	100.30 ft
Increment (Headwater)	0.25 ft
Maximum (Headwater)	103.80 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Rectangular Weir	W9-1	Forward	TW	101.30	103.80
Tailwater Settings	Tailwater			(N/A)	(N/A)

OCS data

Subsection: Outlet Input Data
Label: UGB9
Scenario: 100YR Projected

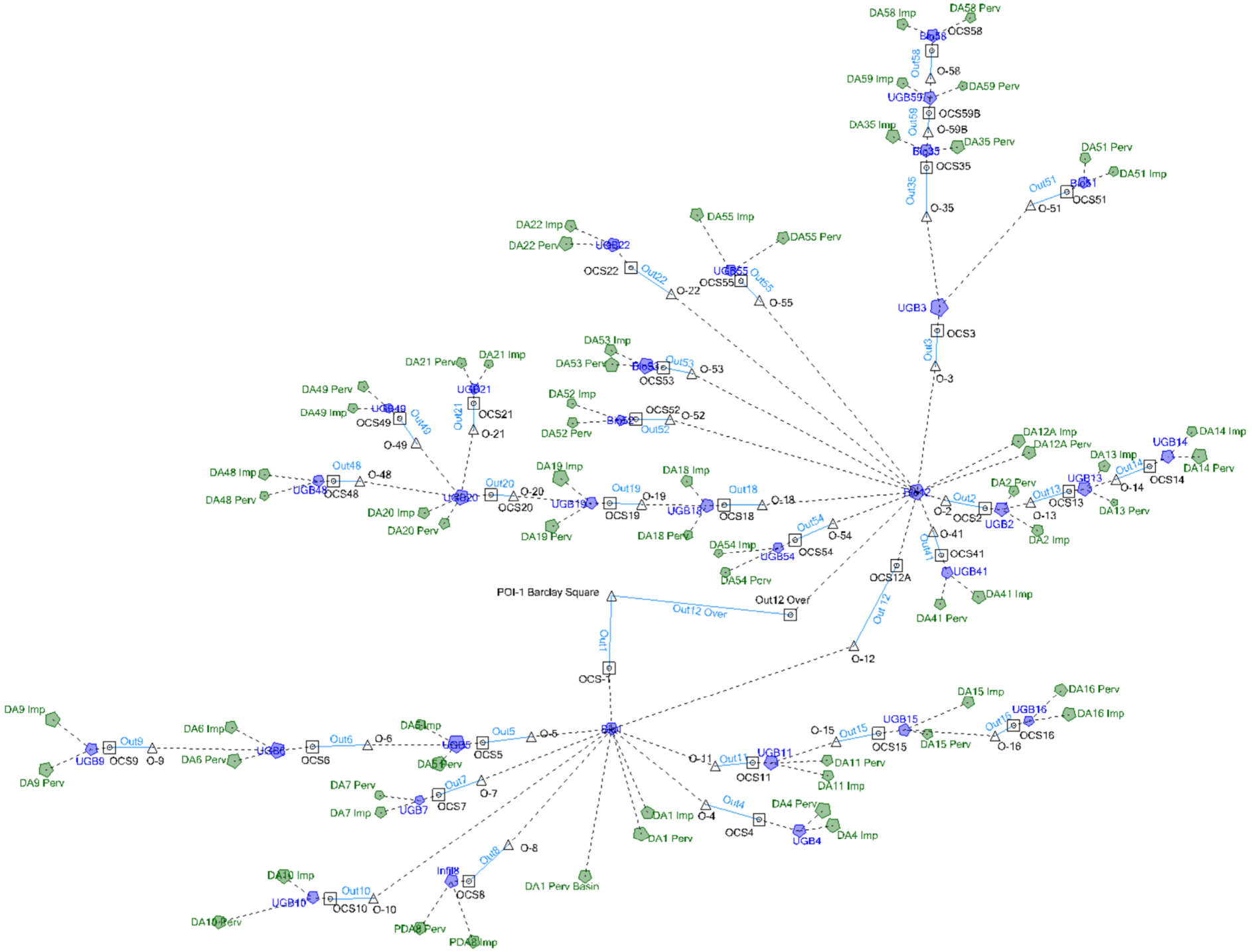
Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Structure ID: W9-1 Structure Type: Rectangular Weir	
Number of Openings	1
Elevation	101.30 ft
Weir Length	1.50 ft
Weir Coefficient	3.00 (ft^0.5)/s

Structure ID: TW Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall

Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft^3/s
Flow Tolerance (Maximum)	10.000 ft^3/s

BASIN ROUTINGS
CURRENT RAINFALL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DA41 Imp
DA41 Perv
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POI-1 Barclay Square
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Out12
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DA9 Imp
DA9 Perv
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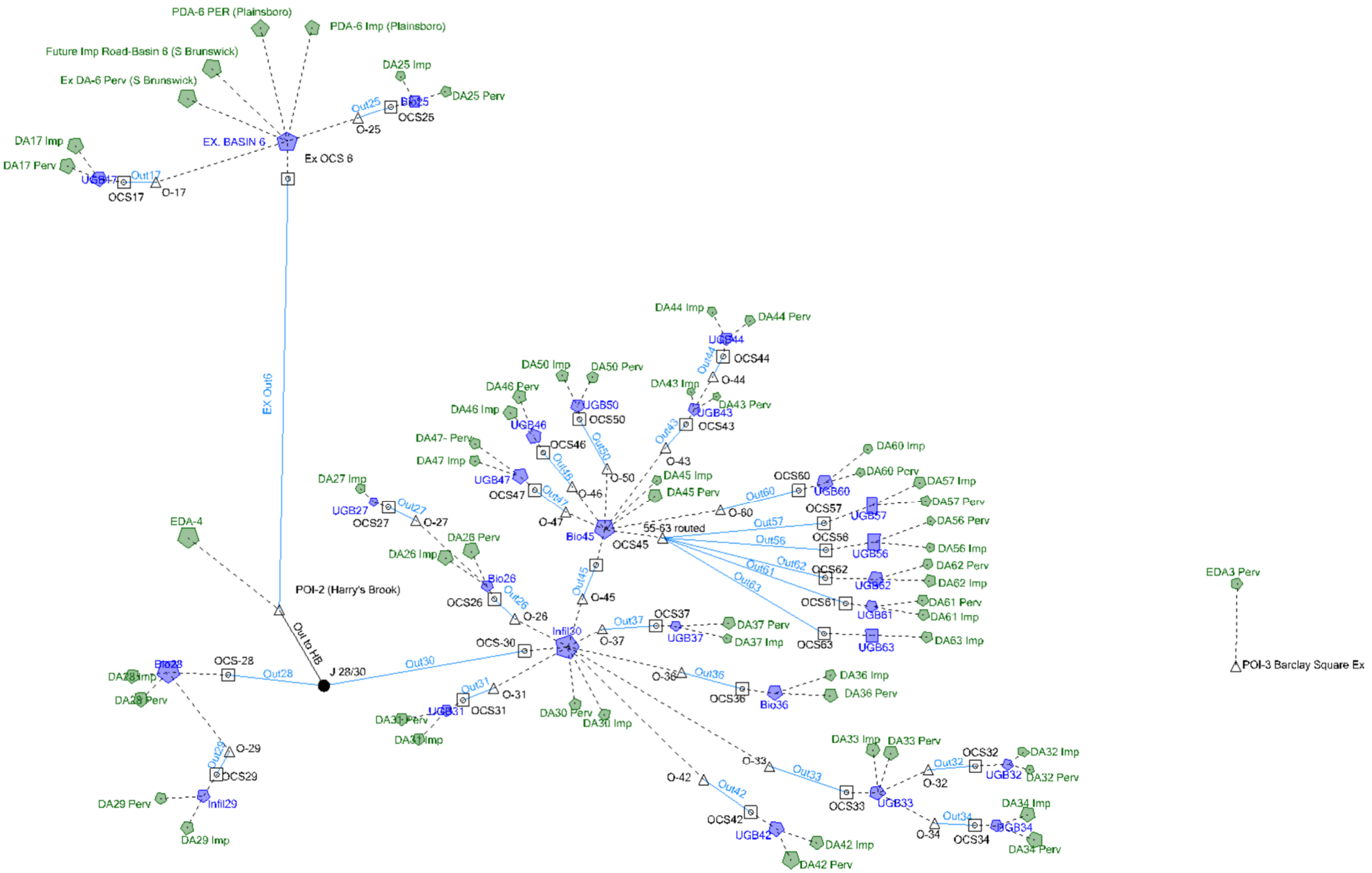
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UGB17
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Basin Routings Current Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
PDA-6 Imp (Plainsboro)	2YR	2	146,683.000	12.10	30.42
PDA-6 Imp (Plainsboro)	10YR	10	229,876.000	12.10	46.84
PDA-6 Imp (Plainsboro)	100YR	100	401,110.000	12.10	80.45
PDA-6 PER (Plainsboro)	2YR	2	3,551.000	12.10	0.72
PDA-6 PER (Plainsboro)	10YR	10	8,870.000	12.10	2.05
PDA-6 PER (Plainsboro)	100YR	100	22,618.000	12.10	5.40
Future Imp Road-Basin 6 (S Brunswick)	2YR	2	3,449.000	12.00	1.06
Future Imp Road-Basin 6 (S Brunswick)	10YR	10	5,405.000	12.00	1.63
Future Imp Road-Basin 6 (S Brunswick)	100YR	100	9,431.000	12.00	2.80
Ex DA-6 Perv (S Brunswick)	2YR	2	5,475.000	12.10	0.82
Ex DA-6 Perv (S Brunswick)	10YR	10	16,916.000	12.10	3.92
Ex DA-6 Perv (S Brunswick)	100YR	100	49,931.000	12.05	12.82
DA28 Perv	2YR	2	1,554.000	12.10	0.28
DA28 Perv	10YR	10	4,384.000	12.10	1.04
DA28 Perv	100YR	100	12,187.000	12.10	3.05
DA28 Imp	2YR	2	9,982.000	12.00	3.15
DA28 Imp	10YR	10	15,834.000	12.00	4.87
DA28 Imp	100YR	100	27,900.000	12.00	8.39
DA30 Imp	2YR	2	14,763.000	12.00	4.76
DA30 Imp	10YR	10	23,705.000	12.00	7.42
DA30 Imp	100YR	100	42,178.000	12.00	12.83
DA30 Perv	2YR	2	4,347.000	12.05	1.14
DA30 Perv	10YR	10	11,101.000	12.05	3.25
DA30 Perv	100YR	100	28,769.000	12.05	8.55
DA45 Imp	2YR	2	19,359.000	12.00	5.93
DA45 Imp	10YR	10	31,087.000	12.00	9.27
DA45 Imp	100YR	100	55,315.000	12.00	16.05
DA45 Perv	2YR	2	1,324.000	12.05	0.31
DA45 Perv	10YR	10	3,734.000	12.00	1.10
DA45 Perv	100YR	100	10,381.000	12.00	3.26
DA57 Imp	2YR	2	8,990.000	12.00	2.90
DA57 Imp	10YR	10	14,433.000	12.00	4.52
DA57 Imp	100YR	100	25,678.000	12.00	7.82

Basin Routings Current Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA56 Imp	2YR	2	21,457.000	12.00	7.05
DA56 Imp	10YR	10	34,872.000	12.00	11.07
DA56 Imp	100YR	100	62,660.000	12.00	19.26
DA62 Perv	2YR	2	230.000	12.05	0.05
DA62 Perv	10YR	10	649.000	12.05	0.17
DA62 Perv	100YR	100	1,805.000	12.05	0.51
DA62 Imp	2YR	2	16,096.000	12.00	4.96
DA62 Imp	10YR	10	25,224.000	12.00	7.62
DA62 Imp	100YR	100	44,012.000	12.00	13.08
DA63 Imp	2YR	2	11,497.000	12.00	3.54
DA63 Imp	10YR	10	18,017.000	12.00	5.45
DA63 Imp	100YR	100	31,438.000	12.00	9.35
DA1 Perv Basin	2YR	2	778.000	12.00	0.24
DA1 Perv Basin	10YR	10	1,905.000	12.00	0.64
DA1 Perv Basin	100YR	100	4,781.000	12.00	1.62
EDA3 Perv	2YR	2	8,037.000	12.05	1.96
EDA3 Perv	10YR	10	22,072.000	12.00	6.68
EDA3 Perv	100YR	100	60,242.000	12.00	19.26
DA12A Imp	2YR	2	4,138.000	12.00	1.22
DA12A Imp	10YR	10	6,485.000	12.00	1.88
DA12A Imp	100YR	100	11,316.000	12.00	3.23
DA12A Perv	2YR	2	4,670.000	12.10	0.88
DA12A Perv	10YR	10	12,823.000	12.10	3.03
DA12A Perv	100YR	100	34,998.000	12.10	8.68
DA35 Imp	2YR	2	2,218.000	12.00	0.69
DA35 Imp	10YR	10	3,519.000	12.00	1.07
DA35 Imp	100YR	100	6,200.000	12.00	1.85
DA35 Perv	2YR	2	1,496.000	12.00	0.36
DA35 Perv	10YR	10	4,221.000	12.00	1.32
DA35 Perv	100YR	100	11,735.000	12.00	3.88
DA59 Imp	2YR	2	11,311.000	12.00	3.50
DA59 Imp	10YR	10	17,943.000	12.00	5.41
DA59 Imp	100YR	100	31,615.000	12.00	9.33
DA59 Perv	2YR	2	7,054.000	12.05	1.76
DA59 Perv	10YR	10	15,717.000	12.05	4.13
DA59 Perv	100YR	100	36,686.000	12.05	9.68
DA58 Imp	2YR	2	16,791.000	12.00	5.37
DA58 Imp	10YR	10	26,963.000	12.00	8.37
DA58 Imp	100YR	100	47,977.000	12.00	14.48
DA58 Perv	2YR	2	5,098.000	12.10	1.20
DA58 Perv	10YR	10	11,990.000	12.05	3.06
DA58 Perv	100YR	100	29,202.000	12.05	7.58
DA51 Perv	2YR	2	1,599.000	12.10	0.33

Basin Routings Current Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA51 Perv	10YR	10	4,280.000	12.05	1.08
DA51 Perv	100YR	100	11,474.000	12.05	3.06
DA51 Imp	2YR	2	3,382.000	12.00	1.05
DA51 Imp	10YR	10	5,365.000	12.00	1.62
DA51 Imp	100YR	100	9,454.000	12.00	2.80
DA56 Perv	2YR	2	537.000	12.00	0.15
DA56 Perv	10YR	10	1,514.000	12.00	0.51
DA56 Perv	100YR	100	4,211.000	12.00	1.48
DA57 Perv	2YR	2	153.000	12.00	0.04
DA57 Perv	10YR	10	433.000	12.00	0.14
DA57 Perv	100YR	100	1,203.000	12.00	0.41
DA26 Imp	2YR	2	17,006.000	12.00	5.22
DA26 Imp	10YR	10	27,308.000	12.00	8.15
DA26 Imp	100YR	100	48,590.000	12.00	14.11
DA26 Perv	2YR	2	2,283.000	12.10	0.44
DA26 Perv	10YR	10	6,439.000	12.05	1.66
DA26 Perv	100YR	100	17,901.000	12.05	4.92
DA60 Imp	2YR	2	14,128.000	12.00	4.56
DA60 Imp	10YR	10	22,681.000	12.00	7.11
DA60 Imp	100YR	100	40,352.000	12.00	12.29
DA60 Perv	2YR	2	441.000	12.05	0.10
DA60 Perv	10YR	10	1,244.000	12.00	0.36
DA60 Perv	100YR	100	3,460.000	12.00	1.08
DA47 Imp	2YR	2	5,877.000	12.00	1.81
DA47 Imp	10YR	10	9,323.000	12.00	2.81
DA47 Imp	100YR	100	16,428.000	12.00	4.84
DA47- Perv	2YR	2	576.000	12.10	0.11
DA47- Perv	10YR	10	1,624.000	12.10	0.39
DA47- Perv	100YR	100	4,514.000	12.05	1.16
DA46 Imp	2YR	2	3,438.000	12.00	1.08
DA46 Imp	10YR	10	5,454.000	12.00	1.68
DA46 Imp	100YR	100	9,610.000	12.00	2.89
DA46 Perv	2YR	2	249.000	12.05	0.06
DA46 Perv	10YR	10	703.000	12.05	0.20
DA46 Perv	100YR	100	1,956.000	12.00	0.60
DA50 Perv	2YR	2	230.000	12.05	0.05
DA50 Perv	10YR	10	649.000	12.05	0.18
DA50 Perv	100YR	100	1,806.000	12.05	0.53
DA50 Imp	2YR	2	3,993.000	12.00	1.26
DA50 Imp	10YR	10	6,333.000	12.00	1.94
DA50 Imp	100YR	100	11,159.000	12.00	3.35
DA15 Imp	2YR	2	9,657.000	12.00	2.97
DA15 Imp	10YR	10	15,134.000	12.00	4.57

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Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA15 Imp	100YR	100	26,407.000	12.00	7.84
DA15 Perv	2YR	2	1,573.000	12.05	0.37
DA15 Perv	10YR	10	4,437.000	12.00	1.34
DA15 Perv	100YR	100	12,335.000	12.00	3.96
DA16 Perv	2YR	2	1,669.000	12.05	0.39
DA16 Perv	10YR	10	4,708.000	12.00	1.38
DA16 Perv	100YR	100	13,089.000	12.00	4.11
DA16 Imp	2YR	2	16,412.000	12.00	5.16
DA16 Imp	10YR	10	26,036.000	12.00	7.98
DA16 Imp	100YR	100	45,875.000	12.00	13.74
DA55 Imp	2YR	2	24,034.000	12.00	7.41
DA55 Imp	10YR	10	37,662.000	12.00	11.39
DA55 Imp	100YR	100	65,713.000	12.00	19.55
DA55 Perv	2YR	2	1,182.000	12.00	0.34
DA55 Perv	10YR	10	2,893.000	12.00	0.93
DA55 Perv	100YR	100	7,261.000	12.00	2.36
DA25 Imp	2YR	2	20,644.000	12.00	5.96
DA25 Imp	10YR	10	33,150.000	12.00	9.32
DA25 Imp	100YR	100	58,986.000	12.00	16.15
DA25 Perv	2YR	2	2,839.000	12.10	0.50
DA25 Perv	10YR	10	8,009.000	12.10	1.87
DA25 Perv	100YR	100	22,267.000	12.10	5.50
DA32 Imp	2YR	2	25,289.000	12.00	7.97
DA32 Imp	10YR	10	40,114.000	12.00	12.33
DA32 Imp	100YR	100	70,679.000	12.00	21.23
DA32 Perv	2YR	2	423.000	12.00	0.13
DA32 Perv	10YR	10	1,193.000	12.00	0.44
DA32 Perv	100YR	100	3,314.000	12.00	1.23
DA34 Perv	2YR	2	249.000	12.00	0.06
DA34 Perv	10YR	10	703.000	12.00	0.23
DA34 Perv	100YR	100	1,955.000	12.00	0.66
DA34 Imp	2YR	2	3,882.000	12.00	1.22
DA34 Imp	10YR	10	6,158.000	12.00	1.89
DA34 Imp	100YR	100	10,850.000	12.00	3.25
DA33 Imp	2YR	2	3,909.000	12.00	1.20
DA33 Imp	10YR	10	6,125.000	12.00	1.85
DA33 Imp	100YR	100	10,688.000	12.00	3.17
DA33 Perv	2YR	2	173.000	12.00	0.05
DA33 Perv	10YR	10	487.000	12.00	0.18
DA33 Perv	100YR	100	1,354.000	12.00	0.50
DA44 Imp	2YR	2	2,167.000	12.00	0.71
DA44 Imp	10YR	10	3,521.000	12.00	1.12
DA44 Imp	100YR	100	6,327.000	12.00	1.95

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Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA44 Perv	2YR	2	58.000	12.00	0.02
DA44 Perv	10YR	10	163.000	12.00	0.06
DA44 Perv	100YR	100	453.000	12.00	0.17
DA43 Imp	2YR	2	1,495.000	12.00	0.46
DA43 Imp	10YR	10	2,343.000	12.00	0.71
DA43 Imp	100YR	100	4,087.000	12.00	1.22
DA43 Perv	2YR	2	490.000	12.00	0.14
DA43 Perv	10YR	10	1,175.000	12.00	0.37
DA43 Perv	100YR	100	2,905.000	12.00	0.92
DA42 Perv	2YR	2	422.000	12.00	0.11
DA42 Perv	10YR	10	1,190.000	12.00	0.39
DA42 Perv	100YR	100	3,309.000	12.00	1.14
DA42 Imp	2YR	2	5,569.000	12.00	1.86
DA42 Imp	10YR	10	9,161.000	12.00	2.96
DA42 Imp	100YR	100	16,626.000	12.00	5.17
DA36 Imp	2YR	2	5,864.000	12.00	1.80
DA36 Imp	10YR	10	9,189.000	12.00	2.78
DA36 Imp	100YR	100	16,033.000	12.00	4.76
DA36 Perv	2YR	2	2,326.000	12.00	0.77
DA36 Perv	10YR	10	5,579.000	12.00	1.97
DA36 Perv	100YR	100	13,794.000	12.00	4.84
DA53 Imp	2YR	2	3,423.000	12.00	1.10
DA53 Imp	10YR	10	5,497.000	12.00	1.72
DA53 Imp	100YR	100	9,781.000	12.00	2.98
DA53 Perv	2YR	2	710.000	12.05	0.16
DA53 Perv	10YR	10	2,002.000	12.05	0.57
DA53 Perv	100YR	100	5,566.000	12.05	1.65
DA52 Imp	2YR	2	7,986.000	12.00	2.52
DA52 Imp	10YR	10	12,668.000	12.00	3.90
DA52 Imp	100YR	100	22,321.000	12.00	6.72
DA52 Perv	2YR	2	1,573.000	12.05	0.36
DA52 Perv	10YR	10	4,437.000	12.05	1.26
DA52 Perv	100YR	100	12,336.000	12.05	3.65
DA20 Imp	2YR	2	7,653.000	12.00	2.42
DA20 Imp	10YR	10	12,140.000	12.00	3.74
DA20 Imp	100YR	100	21,391.000	12.00	6.44
DA20 Perv	2YR	2	767.000	12.00	0.19
DA20 Perv	10YR	10	2,164.000	12.00	0.69
DA20 Perv	100YR	100	6,017.000	12.00	2.03
DA17 Imp	2YR	2	9,094.000	12.00	2.93
DA17 Imp	10YR	10	14,601.000	12.00	4.56
DA17 Imp	100YR	100	25,978.000	12.00	7.90
DA17 Perv	2YR	2	230.000	12.00	0.06

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Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA17 Perv	10YR	10	649.000	12.00	0.21
DA17 Perv	100YR	100	1,805.000	12.00	0.61
DA22 Imp	2YR	2	8,882.000	12.00	2.87
DA22 Imp	10YR	10	14,260.000	12.00	4.46
DA22 Imp	100YR	100	25,370.000	12.00	7.72
DA22 Perv	2YR	2	999.000	12.05	0.25
DA22 Perv	10YR	10	2,674.000	12.05	0.77
DA22 Perv	100YR	100	7,168.000	12.00	2.19
PDA8 Imp	2YR	2	4,369.000	12.00	1.34
PDA8 Imp	10YR	10	6,847.000	12.00	2.07
PDA8 Imp	100YR	100	11,946.000	12.00	3.55
PDA8 Perv	2YR	2	504.000	12.00	0.16
PDA8 Perv	10YR	10	1,417.000	12.00	0.53
PDA8 Perv	100YR	100	3,928.000	12.00	1.47
DA11 Imp	2YR	2	6,525.000	12.00	2.08
DA11 Imp	10YR	10	10,477.000	12.00	3.24
DA11 Imp	100YR	100	18,643.000	12.00	5.61
DA11 Perv	2YR	2	345.000	12.00	0.10
DA11 Perv	10YR	10	973.000	12.00	0.34
DA11 Perv	100YR	100	2,707.000	12.00	0.97
DA19 Perv	2YR	2	192.000	12.05	0.05
DA19 Perv	10YR	10	541.000	12.05	0.15
DA19 Perv	100YR	100	1,504.000	12.00	0.46
DA19 Imp	2YR	2	3,743.000	12.00	1.05
DA19 Imp	10YR	10	6,011.000	12.00	1.65
DA19 Imp	100YR	100	10,695.000	12.00	2.85
DA18 Imp	2YR	2	8,651.000	12.05	2.25
DA18 Imp	10YR	10	13,724.000	12.05	3.48
DA18 Imp	100YR	100	24,181.000	12.05	6.00
DA18 Perv	2YR	2	710.000	12.05	0.16
DA18 Perv	10YR	10	2,003.000	12.05	0.56
DA18 Perv	100YR	100	5,567.000	12.05	1.64
DA49 Imp	2YR	2	3,327.000	12.00	1.04
DA49 Imp	10YR	10	5,277.000	12.00	1.61
DA49 Imp	100YR	100	9,299.000	12.00	2.78
DA49 Perv	2YR	2	345.000	12.00	0.09
DA49 Perv	10YR	10	974.000	12.00	0.32
DA49 Perv	100YR	100	2,708.000	12.00	0.93
DA21 Perv	2YR	2	441.000	12.05	0.10
DA21 Perv	10YR	10	1,245.000	12.05	0.36
DA21 Perv	100YR	100	3,461.000	12.05	1.03
DA21 Imp	2YR	2	5,562.000	12.00	1.65
DA21 Imp	10YR	10	8,931.000	12.00	2.58

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Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA21 Imp	100YR	100	15,892.000	12.00	4.48
DA48 Imp	2YR	2	2,246.000	12.00	0.68
DA48 Imp	10YR	10	3,607.000	12.00	1.07
DA48 Imp	100YR	100	6,417.000	12.00	1.85
DA48 Perv	2YR	2	173.000	12.05	0.04
DA48 Perv	10YR	10	487.000	12.00	0.14
DA48 Perv	100YR	100	1,354.000	12.00	0.43
DA6 Perv	2YR	2	422.000	12.05	0.10
DA6 Perv	10YR	10	1,190.000	12.00	0.35
DA6 Perv	100YR	100	3,310.000	12.00	1.05
DA6 Imp	2YR	2	5,434.000	12.00	1.62
DA6 Imp	10YR	10	8,620.000	12.00	2.51
DA6 Imp	100YR	100	15,188.000	12.00	4.32
DA5 Imp	2YR	2	4,067.000	12.00	1.31
DA5 Imp	10YR	10	6,529.000	12.00	2.05
DA5 Imp	100YR	100	11,616.000	12.00	3.54
DA5 Perv	2YR	2	249.000	12.00	0.07
DA5 Perv	10YR	10	703.000	12.00	0.25
DA5 Perv	100YR	100	1,956.000	12.00	0.72
DA61 Perv	2YR	2	115.000	12.05	0.03
DA61 Perv	10YR	10	325.000	12.05	0.09
DA61 Perv	100YR	100	903.000	12.05	0.27
DA61 Imp	2YR	2	5,978.000	12.00	1.84
DA61 Imp	10YR	10	9,368.000	12.00	2.83
DA61 Imp	100YR	100	16,346.000	12.00	4.85
DA37 Perv	2YR	2	345.000	12.00	0.08
DA37 Perv	10YR	10	974.000	12.00	0.31
DA37 Perv	100YR	100	2,708.000	12.00	0.91
DA37 Imp	2YR	2	3,882.000	12.00	1.22
DA37 Imp	10YR	10	6,158.000	12.00	1.89
DA37 Imp	100YR	100	10,849.000	12.00	3.26
DA31 Perv	2YR	2	3,104.000	12.00	0.89
DA31 Perv	10YR	10	4,864.000	12.00	1.36
DA31 Perv	100YR	100	8,487.000	12.00	2.34
DA31 Imp	2YR	2	6,432.000	12.00	2.01
DA31 Imp	10YR	10	10,204.000	12.00	3.11
DA31 Imp	100YR	100	17,979.000	12.00	5.36
DA4 Imp	2YR	2	9,204.000	12.00	2.97
DA4 Imp	10YR	10	14,777.000	12.00	4.63
DA4 Imp	100YR	100	26,290.000	12.00	8.01
DA4 Perv	2YR	2	288.000	12.00	0.08
DA4 Perv	10YR	10	811.000	12.00	0.27
DA4 Perv	100YR	100	2,256.000	12.00	0.78

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Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA1 Imp	2YR	2	5,988.000	12.00	1.88
DA1 Imp	10YR	10	9,499.000	12.00	2.91
DA1 Imp	100YR	100	16,737.000	12.00	5.01
DA1 Perv	2YR	2	2,276.000	12.05	0.53
DA1 Perv	10YR	10	5,686.000	12.05	1.52
DA1 Perv	100YR	100	14,499.000	12.05	3.98
DA14 Imp	2YR	2	3,530.000	12.00	1.14
DA14 Imp	10YR	10	5,668.000	12.00	1.77
DA14 Imp	100YR	100	10,086.000	12.00	3.06
DA14 Perv	2YR	2	134.000	12.00	0.04
DA14 Perv	10YR	10	379.000	12.00	0.13
DA14 Perv	100YR	100	1,053.000	12.00	0.37
DA13 Imp	2YR	2	3,508.000	12.00	1.15
DA13 Imp	10YR	10	5,701.000	12.00	1.81
DA13 Imp	100YR	100	10,243.000	12.00	3.15
DA13 Perv	2YR	2	77.000	12.00	0.02
DA13 Perv	10YR	10	217.000	12.00	0.08
DA13 Perv	100YR	100	603.000	12.00	0.22
DA2 Perv	2YR	2	1,901.000	12.05	0.46
DA2 Perv	10YR	10	5,220.000	12.05	1.50
DA2 Perv	100YR	100	14,248.000	12.00	4.33
DA2 Imp	2YR	2	9,317.000	12.00	2.94
DA2 Imp	10YR	10	14,779.000	12.00	4.54
DA2 Imp	100YR	100	26,039.000	12.00	7.83
DA9 Imp	2YR	2	5,242.000	12.00	1.69
DA9 Imp	10YR	10	8,417.000	12.00	2.63
DA9 Imp	100YR	100	14,976.000	12.00	4.55
DA9 Perv	2YR	2	288.000	12.05	0.07
DA9 Perv	10YR	10	812.000	12.00	0.24
DA9 Perv	100YR	100	2,257.000	12.00	0.72
DA10 Perv	2YR	2	460.000	12.00	0.13
DA10 Perv	10YR	10	1,298.000	12.00	0.46
DA10 Perv	100YR	100	3,609.000	12.00	1.31
DA10 Imp	2YR	2	9,082.000	12.00	2.80
DA10 Imp	10YR	10	14,233.000	12.00	4.30
DA10 Imp	100YR	100	24,836.000	12.00	7.38
DA54 Imp	2YR	2	3,316.000	12.00	1.07
DA54 Imp	10YR	10	5,325.000	12.00	1.66
DA54 Imp	100YR	100	9,474.000	12.00	2.88
DA54 Perv	2YR	2	192.000	12.00	0.05
DA54 Perv	10YR	10	541.000	12.00	0.18
DA54 Perv	100YR	100	1,504.000	12.00	0.52
DA41 Perv	2YR	2	39.000	12.00	0.01

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Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA41 Perv	10YR	10	109.000	12.00	0.04
DA41 Perv	100YR	100	302.000	12.00	0.11
DA41 Imp	2YR	2	1,819.000	12.00	0.59
DA41 Imp	10YR	10	2,921.000	12.00	0.92
DA41 Imp	100YR	100	5,197.000	12.00	1.58
DA27 Imp	2YR	2	8,855.000	12.00	2.73
DA27 Imp	10YR	10	13,875.000	12.00	4.20
DA27 Imp	100YR	100	24,210.000	12.00	7.20
DA29 Perv	2YR	2	978.000	12.05	0.23
DA29 Perv	10YR	10	2,760.000	12.05	0.79
DA29 Perv	100YR	100	7,672.000	12.00	2.31
DA29 Imp	2YR	2	11,018.000	12.00	3.55
DA29 Imp	10YR	10	17,691.000	12.00	5.53
DA29 Imp	100YR	100	31,479.000	12.00	9.57
DA7 Perv	2YR	2	403.000	12.05	0.09
DA7 Perv	10YR	10	1,136.000	12.05	0.32
DA7 Perv	100YR	100	3,159.000	12.05	0.93
DA7 Imp	2YR	2	4,436.000	12.00	1.38
DA7 Imp	10YR	10	7,037.000	12.00	2.14
DA7 Imp	100YR	100	12,400.000	12.00	3.69
EDA-4	2YR	2	2,353.000	12.00	0.61
EDA-4	10YR	10	6,298.000	12.00	1.99
EDA-4	100YR	100	16,887.000	12.00	5.56

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
POI-2 (Harry's Brook)	2YR	2	175,795.000	14.40	4.44
POI-2 (Harry's Brook)	10YR	10	460,954.000	12.50	27.56
POI-2 (Harry's Brook)	100YR	100	1,109,735.000	12.80	48.49
J 28/30	2YR	2	140,560.000	14.35	4.16
J 28/30	10YR	10	303,578.000	12.85	18.00
J 28/30	100YR	100	667,121.000	12.30	69.34
POI-1 Barclay Square	2YR	2	149,615.000	13.45	6.31
POI-1 Barclay Square	10YR	10	327,785.000	12.30	34.97
POI-1 Barclay Square	100YR	100	738,076.000	12.10	115.79
POI-3 Barclay Square Ex	2YR	2	8,037.000	12.05	1.96
POI-3 Barclay Square Ex	10YR	10	22,072.000	12.00	6.68
POI-3 Barclay Square Ex	100YR	100	60,242.000	12.00	19.26

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Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
EX. BASIN 6 (IN)	2YR	2	163,942.000	12.10	32.33	(N/A)	(N/A)
EX. BASIN 6 (OUT)	2YR	2	32,896.000	24.05	0.39	91.39	150,742.000
EX. BASIN 6 (IN)	10YR	10	287,860.000	12.10	53.56	(N/A)	(N/A)
EX. BASIN 6 (OUT)	10YR	10	148,308.000	14.55	3.79	91.92	188,433.000
EX. BASIN 6 (IN)	100YR	100	562,337.000	12.10	103.02	(N/A)	(N/A)
EX. BASIN 6 (OUT)	100YR	100	421,575.000	12.85	21.64	93.27	291,985.000
Infil30 (IN)	2YR	2	150,073.000	12.00	14.12	(N/A)	(N/A)
Infil30 (OUT)	2YR	2	120,050.000	14.60	3.74	93.27	57,304.000
Infil30 (IN)	10YR	10	296,933.000	12.00	31.05	(N/A)	(N/A)
Infil30 (OUT)	10YR	10	265,930.000	12.95	15.78	94.01	82,781.000
Infil30 (IN)	100YR	100	622,606.000	12.05	87.27	(N/A)	(N/A)
Infil30 (OUT)	100YR	100	590,904.000	12.35	60.06	95.29	129,986.000
Bio28 (IN)	2YR	2	22,659.000	12.00	6.28	(N/A)	(N/A)
Bio28 (OUT)	2YR	2	20,510.000	12.15	2.98	92.50	6,920.000
Bio28 (IN)	10YR	10	39,796.000	12.00	10.73	(N/A)	(N/A)
Bio28 (OUT)	10YR	10	37,648.000	12.15	5.53	93.03	9,738.000
Bio28 (IN)	100YR	100	78,365.000	12.00	20.69	(N/A)	(N/A)
Bio28 (OUT)	100YR	100	76,217.000	12.15	11.44	94.03	15,557.000
Bio45 (IN)	2YR	2	72,240.000	12.00	10.68	(N/A)	(N/A)
Bio45 (OUT)	2YR	2	64,282.000	13.70	2.03	98.31	24,682.000
Bio45 (IN)	10YR	10	144,812.000	12.00	20.63	(N/A)	(N/A)
Bio45 (OUT)	10YR	10	136,769.000	12.55	8.48	99.12	37,337.000
Bio45 (IN)	100YR	100	306,011.000	12.00	45.10	(N/A)	(N/A)
Bio45 (OUT)	100YR	100	297,899.000	12.15	31.84	99.98	51,844.000
UGB57 (IN)	2YR	2	9,144.000	12.00	2.94	(N/A)	(N/A)
UGB57 (OUT)	2YR	2	0.000	0.00	0.00	112.27	9,149.000
UGB57 (IN)	10YR	10	14,866.000	12.00	4.66	(N/A)	(N/A)
UGB57 (OUT)	10YR	10	3,498.000	17.50	0.09	112.61	12,455.000
UGB57 (IN)	100YR	100	26,882.000	12.00	8.23	(N/A)	(N/A)
UGB57 (OUT)	100YR	100	15,513.000	12.65	0.95	113.06	16,567.000
UGB56 (IN)	2YR	2	21,993.000	12.00	7.19	(N/A)	(N/A)
UGB56 (OUT)	2YR	2	8,432.000	14.95	0.23	111.15	16,272.000
UGB56 (IN)	10YR	10	36,386.000	12.00	11.59	(N/A)	(N/A)

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Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB56 (OUT)	10YR	10	22,824.000	12.90	1.05	111.50	22,405.000
UGB56 (IN)	100YR	100	66,871.000	12.00	20.74	(N/A)	(N/A)
UGB56 (OUT)	100YR	100	53,308.000	12.25	4.30	112.27	35,012.000
UGB62 (IN)	2YR	2	16,326.000	12.00	4.99	(N/A)	(N/A)
UGB62 (OUT)	2YR	2	11,257.000	12.85	0.49	109.10	10,183.000
UGB62 (IN)	10YR	10	25,873.000	12.00	7.76	(N/A)	(N/A)
UGB62 (OUT)	10YR	10	20,779.000	12.45	1.16	109.48	14,586.000
UGB62 (IN)	100YR	100	45,817.000	12.00	13.52	(N/A)	(N/A)
UGB62 (OUT)	100YR	100	40,690.000	12.40	2.20	110.27	23,120.000
UGB63 (IN)	2YR	2	11,497.000	12.00	3.54	(N/A)	(N/A)
UGB63 (OUT)	2YR	2	7,136.000	12.35	0.63	105.39	6,612.000
UGB63 (IN)	10YR	10	18,017.000	12.00	5.45	(N/A)	(N/A)
UGB63 (OUT)	10YR	10	13,656.000	12.10	1.80	105.80	8,895.000
UGB63 (IN)	100YR	100	31,438.000	12.00	9.35	(N/A)	(N/A)
UGB63 (OUT)	100YR	100	27,076.000	12.05	5.02	106.35	11,697.000
Bio1 (IN)	2YR	2	160,728.000	12.20	18.92	(N/A)	(N/A)
Bio1 (OUT)	2YR	2	149,615.000	13.45	6.31	83.83	42,010.000
Bio1 (IN)	10YR	10	343,555.000	12.10	50.33	(N/A)	(N/A)
Bio1 (OUT)	10YR	10	327,785.000	12.30	34.97	86.14	60,884.000
Bio1 (IN)	100YR	100	753,775.000	12.05	114.51	(N/A)	(N/A)
Bio1 (OUT)	100YR	100	735,881.000	12.10	110.55	87.43	72,528.000
Bio12 (IN)	2YR	2	109,965.000	12.05	13.98	(N/A)	(N/A)
Bio12 (OUT)	2YR	2	96,397.000	12.20	10.99	87.48	13,090.000
Bio12 (IN)	10YR	10	235,981.000	12.05	32.74	(N/A)	(N/A)
Bio12 (OUT)	10YR	10	218,458.000	12.10	30.30	88.07	17,034.000
Bio12 (IN)	100YR	100	514,497.000	12.05	80.02	(N/A)	(N/A)
Bio12 (OUT)	100YR	100	495,711.000	12.10	76.91	88.89	23,125.000
Bio35 (IN)	2YR	2	29,095.000	12.00	1.05	(N/A)	(N/A)
Bio35 (OUT)	2YR	2	20,191.000	18.25	0.38	104.88	7,215.000
Bio35 (IN)	10YR	10	70,960.000	12.75	2.91	(N/A)	(N/A)
Bio35 (OUT)	10YR	10	59,426.000	15.55	1.09	105.89	13,428.000
Bio35 (IN)	100YR	100	151,101.000	12.05	12.33	(N/A)	(N/A)
Bio35 (OUT)	100YR	100	138,840.000	12.70	8.83	106.64	19,024.000
UGB59 (IN)	2YR	2	34,841.000	12.00	5.26	(N/A)	(N/A)

Basin Routings Current Rainfall

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Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB59 (OUT)	2YR	2	25,381.000	14.95	0.69	105.05	17,807.000
UGB59 (IN)	10YR	10	67,195.000	12.00	10.45	(N/A)	(N/A)
UGB59 (OUT)	10YR	10	63,221.000	12.80	2.59	105.91	31,511.000
UGB59 (IN)	100YR	100	140,057.000	12.00	23.13	(N/A)	(N/A)
UGB59 (OUT)	100YR	100	133,167.000	12.50	8.81	106.73	44,625.000
Bio58 (IN)	2YR	2	21,892.000	12.00	6.29	(N/A)	(N/A)
Bio58 (OUT)	2YR	2	16,477.000	12.65	0.94	107.88	11,297.000
Bio58 (IN)	10YR	10	38,955.000	12.00	10.87	(N/A)	(N/A)
Bio58 (OUT)	10YR	10	33,535.000	12.40	2.54	108.57	17,702.000
Bio58 (IN)	100YR	100	77,182.000	12.00	20.85	(N/A)	(N/A)
Bio58 (OUT)	100YR	100	71,756.000	12.20	8.52	109.52	27,580.000
Bio51 (IN)	2YR	2	4,981.000	12.00	1.28	(N/A)	(N/A)
Bio51 (OUT)	2YR	2	1,942.000	13.75	0.10	103.04	3,192.000
Bio51 (IN)	10YR	10	9,645.000	12.00	2.48	(N/A)	(N/A)
Bio51 (OUT)	10YR	10	6,606.000	12.30	0.83	103.32	4,167.000
Bio51 (IN)	100YR	100	20,928.000	12.00	5.34	(N/A)	(N/A)
Bio51 (OUT)	100YR	100	17,889.000	12.15	3.45	103.83	6,150.000
Bio26 (IN)	2YR	2	23,243.000	12.00	6.57	(N/A)	(N/A)
Bio26 (OUT)	2YR	2	14,721.000	12.35	1.87	98.52	9,067.000
Bio26 (IN)	10YR	10	42,508.000	12.00	12.40	(N/A)	(N/A)
Bio26 (OUT)	10YR	10	33,166.000	12.15	6.10	99.05	13,476.000
Bio26 (IN)	100YR	100	85,404.000	12.00	24.10	(N/A)	(N/A)
Bio26 (OUT)	100YR	100	75,042.000	12.10	14.46	99.75	19,905.000
Bio25 (IN)	2YR	2	23,484.000	12.00	6.23	(N/A)	(N/A)
Bio25 (OUT)	2YR	2	2,792.000	24.00	0.05	101.53	22,764.000
Bio25 (IN)	10YR	10	41,159.000	12.00	10.65	(N/A)	(N/A)
Bio25 (OUT)	10YR	10	18,874.000	16.70	0.34	102.07	31,669.000
Bio25 (IN)	100YR	100	81,253.000	12.00	20.42	(N/A)	(N/A)
Bio25 (OUT)	100YR	100	58,796.000	12.60	3.68	102.83	45,119.000
UGB50 (IN)	2YR	2	4,223.000	12.00	1.30	(N/A)	(N/A)
UGB50 (OUT)	2YR	2	3,461.000	12.00	1.16	103.43	1,074.000
UGB50 (IN)	10YR	10	6,983.000	12.00	2.11	(N/A)	(N/A)
UGB50 (OUT)	10YR	10	6,222.000	12.00	1.94	103.64	1,179.000
UGB50 (IN)	100YR	100	12,965.000	12.00	3.84	(N/A)	(N/A)
UGB50 (OUT)	100YR	100	12,204.000	12.00	3.39	104.10	1,389.000
UGB46 (IN)	2YR	2	3,688.000	12.00	1.14	(N/A)	(N/A)

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Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB46 (OUT)	2YR	2	3,156.000	12.00	0.98	104.95	838.000
UGB46 (IN)	10YR	10	6,157.000	12.00	1.88	(N/A)	(N/A)
UGB46 (OUT)	10YR	10	5,626.000	12.00	1.68	105.18	952.000
UGB46 (IN)	100YR	100	11,565.000	12.00	3.48	(N/A)	(N/A)
UGB46 (OUT)	100YR	100	11,034.000	12.00	2.69	105.81	1,259.000
UGB47 (IN)	2YR	2	6,453.000	12.00	1.88	(N/A)	(N/A)
UGB47 (OUT)	2YR	2	5,435.000	12.05	1.10	109.49	2,180.000
UGB47 (IN)	10YR	10	10,947.000	12.00	3.11	(N/A)	(N/A)
UGB47 (OUT)	10YR	10	9,930.000	12.05	1.92	109.78	2,693.000
UGB47 (IN)	100YR	100	20,942.000	12.00	5.79	(N/A)	(N/A)
UGB47 (OUT)	100YR	100	19,924.000	12.10	3.07	110.62	4,082.000
UGB60 (IN)	2YR	2	14,569.000	12.00	4.66	(N/A)	(N/A)
UGB60 (OUT)	2YR	2	7,134.000	13.25	0.31	112.31	9,489.000
UGB60 (IN)	10YR	10	23,925.000	12.00	7.47	(N/A)	(N/A)
UGB60 (OUT)	10YR	10	16,491.000	12.35	1.35	112.68	13,111.000
UGB60 (IN)	100YR	100	43,811.000	12.00	13.38	(N/A)	(N/A)
UGB60 (OUT)	100YR	100	36,377.000	12.10	4.50	113.41	19,592.000
UGB15 (IN)	2YR	2	26,230.000	12.00	4.23	(N/A)	(N/A)
UGB15 (OUT)	2YR	2	24,056.000	12.25	2.01	93.15	5,234.000
UGB15 (IN)	10YR	10	47,233.000	12.00	8.07	(N/A)	(N/A)
UGB15 (OUT)	10YR	10	45,058.000	12.15	4.59	93.54	7,468.000
UGB15 (IN)	100YR	100	94,624.000	12.00	17.30	(N/A)	(N/A)
UGB15 (OUT)	100YR	100	92,452.000	12.10	11.55	94.32	11,566.000
UGB16 (IN)	2YR	2	18,083.000	12.00	5.52	(N/A)	(N/A)
UGB16 (OUT)	2YR	2	14,999.000	12.25	1.22	95.29	8,586.000
UGB16 (IN)	10YR	10	30,744.000	12.00	9.36	(N/A)	(N/A)
UGB16 (OUT)	10YR	10	27,662.000	12.20	2.72	95.77	12,326.000
UGB16 (IN)	100YR	100	58,964.000	12.00	17.85	(N/A)	(N/A)

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Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB16 (OUT)	100YR	100	55,882.000	12.10	6.86	96.73	18,940.000
UGB55 (IN)	2YR	2	25,216.000	12.00	7.75	(N/A)	(N/A)
UGB55 (OUT)	2YR	2	18,924.000	12.25	1.49	107.41	13,549.000
UGB55 (IN)	10YR	10	40,555.000	12.00	12.32	(N/A)	(N/A)
UGB55 (OUT)	10YR	10	34,262.000	12.10	4.41	107.83	18,223.000
UGB55 (IN)	100YR	100	72,975.000	12.00	21.92	(N/A)	(N/A)
UGB55 (OUT)	100YR	100	66,682.000	12.05	12.03	108.45	24,447.000
UGB32 (IN)	2YR	2	25,712.000	12.00	8.10	(N/A)	(N/A)
UGB32 (OUT)	2YR	2	21,444.000	12.05	3.01	111.26	10,813.000
UGB32 (IN)	10YR	10	41,307.000	12.00	12.77	(N/A)	(N/A)
UGB32 (OUT)	10YR	10	37,040.000	12.05	5.71	111.67	14,094.000
UGB32 (IN)	100YR	100	73,993.000	12.00	22.46	(N/A)	(N/A)
UGB32 (OUT)	100YR	100	69,725.000	12.05	12.15	112.44	19,567.000
UGB33 (IN)	2YR	2	28,863.000	12.00	4.20	(N/A)	(N/A)
UGB33 (OUT)	2YR	2	28,252.000	12.15	3.63	107.26	2,247.000
UGB33 (IN)	10YR	10	49,720.000	12.00	7.85	(N/A)	(N/A)
UGB33 (OUT)	10YR	10	49,108.000	12.10	7.00	107.74	3,123.000
UGB33 (IN)	100YR	100	93,779.000	12.00	16.09	(N/A)	(N/A)
UGB33 (OUT)	100YR	100	93,168.000	12.05	14.95	108.63	4,566.000
UGB34 (IN)	2YR	2	4,131.000	12.00	1.28	(N/A)	(N/A)
UGB34 (OUT)	2YR	2	3,337.000	12.15	0.35	110.36	1,937.000
UGB34 (IN)	10YR	10	6,861.000	12.00	2.12	(N/A)	(N/A)
UGB34 (OUT)	10YR	10	6,067.000	12.10	0.79	110.60	2,656.000
UGB34 (IN)	100YR	100	12,805.000	12.00	3.92	(N/A)	(N/A)
UGB34 (OUT)	100YR	100	12,012.000	12.10	1.47	111.10	3,981.000
UGB43 (IN)	2YR	2	1,985.000	12.00	0.60	(N/A)	(N/A)
UGB43 (OUT)	2YR	2	0.000	0.00	0.00	98.83	1,021.000
UGB43 (IN)	10YR	10	4,520.000	12.00	1.13	(N/A)	(N/A)

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Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB43 (OUT)	10YR	10	1,821.000	12.55	0.31	99.21	1,689.000
UGB43 (IN)	100YR	100	10,633.000	12.00	3.31	(N/A)	(N/A)
UGB43 (OUT)	100YR	100	7,502.000	12.10	2.11	99.79	2,698.000
UGB44 (IN)	2YR	2	2,225.000	12.00	0.73	(N/A)	(N/A)
UGB44 (OUT)	2YR	2	0.000	0.00	0.00	101.96	1,251.000
UGB44 (IN)	10YR	10	3,684.000	12.00	1.18	(N/A)	(N/A)
UGB44 (OUT)	10YR	10	1,002.000	12.25	0.22	102.15	1,583.000
UGB44 (IN)	100YR	100	6,780.000	12.00	2.11	(N/A)	(N/A)
UGB44 (OUT)	100YR	100	3,641.000	12.05	1.24	102.55	2,289.000
UGB42 (IN)	2YR	2	5,991.000	12.00	1.97	(N/A)	(N/A)
UGB42 (OUT)	2YR	2	4,763.000	12.05	1.09	96.61	2,223.000
UGB42 (IN)	10YR	10	10,351.000	12.00	3.35	(N/A)	(N/A)
UGB42 (OUT)	10YR	10	9,124.000	12.05	2.15	96.97	2,789.000
UGB42 (IN)	100YR	100	19,935.000	12.00	6.31	(N/A)	(N/A)
UGB42 (OUT)	100YR	100	18,708.000	12.05	4.49	97.58	3,694.000
Bio36 (IN)	2YR	2	8,190.000	12.00	2.58	(N/A)	(N/A)
Bio36 (OUT)	2YR	2	7,530.000	12.05	1.81	99.46	1,492.000
Bio36 (IN)	10YR	10	14,768.000	12.00	4.74	(N/A)	(N/A)
Bio36 (OUT)	10YR	10	14,108.000	12.05	3.47	99.85	2,027.000
Bio36 (IN)	100YR	100	29,827.000	12.00	9.61	(N/A)	(N/A)
Bio36 (OUT)	100YR	100	29,167.000	12.00	7.20	100.54	3,147.000
Bio53 (IN)	2YR	2	4,133.000	12.00	1.24	(N/A)	(N/A)
Bio53 (OUT)	2YR	2	3,138.000	12.05	0.68	105.81	1,542.000
Bio53 (IN)	10YR	10	7,499.000	12.00	2.25	(N/A)	(N/A)
Bio53 (OUT)	10YR	10	6,503.000	12.05	1.45	106.06	1,962.000
Bio53 (IN)	100YR	100	15,346.000	12.00	4.57	(N/A)	(N/A)
Bio53 (OUT)	100YR	100	14,351.000	12.05	3.12	106.48	2,775.000
Bio52 (IN)	2YR	2	9,559.000	12.00	2.81	(N/A)	(N/A)
Bio52 (OUT)	2YR	2	7,197.000	12.05	1.71	101.51	2,322.000
Bio52 (IN)	10YR	10	17,106.000	12.00	5.05	(N/A)	(N/A)
Bio52 (OUT)	10YR	10	14,588.000	12.05	3.28	101.89	3,148.000
Bio52 (IN)	100YR	100	34,657.000	12.00	10.19	(N/A)	(N/A)
Bio52 (OUT)	100YR	100	31,964.000	12.05	6.97	102.58	4,915.000
UGB20 (IN)	2YR	2	19,354.000	12.00	5.44	(N/A)	(N/A)

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Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB20 (OUT)	2YR	2	17,731.000	12.20	2.30	98.83	6,532.000
UGB20 (IN)	10YR	10	33,665.000	12.00	9.52	(N/A)	(N/A)
UGB20 (OUT)	10YR	10	32,041.000	12.10	6.42	99.25	8,268.000
UGB20 (IN)	100YR	100	65,378.000	12.00	18.54	(N/A)	(N/A)
UGB20 (OUT)	100YR	100	63,753.000	12.05	15.70	99.82	10,352.000
UGB17 (IN)	2YR	2	9,324.000	12.00	2.99	(N/A)	(N/A)
UGB17 (OUT)	2YR	2	1,993.000	17.30	0.06	111.54	7,746.000
UGB17 (IN)	10YR	10	15,250.000	12.00	4.77	(N/A)	(N/A)
UGB17 (OUT)	10YR	10	7,919.000	13.05	0.38	111.75	9,778.000
UGB17 (IN)	100YR	100	27,783.000	12.00	8.51	(N/A)	(N/A)
UGB17 (OUT)	100YR	100	20,453.000	12.20	2.02	112.27	14,641.000
UGB22 (IN)	2YR	2	9,881.000	12.00	3.10	(N/A)	(N/A)
UGB22 (OUT)	2YR	2	3,431.000	14.25	0.14	108.06	6,999.000
UGB22 (IN)	10YR	10	16,933.000	12.00	5.24	(N/A)	(N/A)
UGB22 (OUT)	10YR	10	10,484.000	12.45	0.87	108.33	9,232.000
UGB22 (IN)	100YR	100	32,538.000	12.00	9.91	(N/A)	(N/A)
UGB22 (OUT)	100YR	100	26,089.000	12.10	3.89	108.90	13,967.000
Infil8 (IN)	2YR	2	4,873.000	12.00	1.51	(N/A)	(N/A)
Infil8 (OUT)	2YR	2	1,855.000	12.50	0.17	110.00	2,229.000
Infil8 (IN)	10YR	10	8,263.000	12.00	2.59	(N/A)	(N/A)
Infil8 (OUT)	10YR	10	4,836.000	12.20	0.60	110.23	3,346.000
Infil8 (IN)	100YR	100	15,874.000	12.00	5.02	(N/A)	(N/A)
Infil8 (OUT)	100YR	100	12,011.000	12.05	1.76	110.63	5,401.000
UGB11 (IN)	2YR	2	30,925.000	12.00	3.66	(N/A)	(N/A)
UGB11 (OUT)	2YR	2	27,664.000	12.00	3.40	85.48	875.000
UGB11 (IN)	10YR	10	56,509.000	12.00	7.24	(N/A)	(N/A)
UGB11 (OUT)	10YR	10	52,936.000	12.00	6.95	85.69	1,075.000
UGB11 (IN)	100YR	100	113,802.000	12.00	15.96	(N/A)	(N/A)
UGB11 (OUT)	100YR	100	109,915.000	12.00	16.71	86.30	1,566.000
UGB19 (IN)	2YR	2	21,665.000	12.05	2.99	(N/A)	(N/A)

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Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB19 (OUT)	2YR	2	19,142.000	12.25	2.76	96.52	1,681.000
UGB19 (Reverse)	2YR	2	0.000	26.25	0.00	(N/A)	(N/A)
UGB19 (IN)	10YR	10	38,594.000	12.05	7.89	(N/A)	(N/A)
UGB19 (OUT)	10YR	10	35,392.000	12.10	7.37	97.08	2,192.000
UGB19 (Reverse)	10YR	10	0.000	26.75	0.00	(N/A)	(N/A)
UGB19 (IN)	100YR	100	75,952.000	12.05	18.32	(N/A)	(N/A)
UGB19 (OUT)	100YR	100	72,430.000	12.05	17.61	97.80	2,756.000
UGB19 (Reverse)	100YR	100	0.000	27.25	0.00	(N/A)	(N/A)
UGB18 (IN)	2YR	2	28,502.000	12.05	4.73	(N/A)	(N/A)
UGB18 (Reverse)	2YR	2	0.000	26.25	0.00	(N/A)	(N/A)
UGB18 (OUT)	2YR	2	27,541.000	12.15	4.03	96.46	2,139.000
UGB18 (IN)	10YR	10	51,117.000	12.05	10.61	(N/A)	(N/A)
UGB18 (Reverse)	10YR	10	0.000	26.75	0.00	(N/A)	(N/A)
UGB18 (OUT)	10YR	10	50,189.000	12.10	10.48	96.95	2,577.000
UGB18 (IN)	100YR	100	102,177.000	12.05	25.02	(N/A)	(N/A)
UGB18 (Reverse)	100YR	100	0.000	27.25	0.00	(N/A)	(N/A)
UGB18 (OUT)	100YR	100	101,231.000	12.05	24.39	97.58	3,045.000
UGB49 (IN)	2YR	2	3,672.000	12.00	1.13	(N/A)	(N/A)
UGB49 (OUT)	2YR	2	3,332.000	12.00	0.97	104.16	597.000
UGB49 (IN)	10YR	10	6,251.000	12.00	1.93	(N/A)	(N/A)
UGB49 (OUT)	10YR	10	5,911.000	12.00	1.76	104.36	695.000
UGB49 (IN)	100YR	100	12,006.000	12.00	3.71	(N/A)	(N/A)
UGB49 (OUT)	100YR	100	11,667.000	12.00	3.47	104.71	866.000
UGB21 (IN)	2YR	2	6,003.000	12.00	1.74	(N/A)	(N/A)
UGB21 (OUT)	2YR	2	5,405.000	12.05	1.48	100.00	1,054.000
UGB21 (IN)	10YR	10	10,176.000	12.00	2.92	(N/A)	(N/A)
UGB21 (OUT)	10YR	10	9,578.000	12.05	2.57	100.34	1,254.000

Basin Routings Current Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB21 (IN)	100YR	100	19,353.000	12.00	5.50	(N/A)	(N/A)
UGB21 (OUT)	100YR	100	18,755.000	12.05	5.02	100.96	1,597.000
UGB48 (IN)	2YR	2	2,419.000	12.00	0.72	(N/A)	(N/A)
UGB48 (OUT)	2YR	2	2,196.000	12.05	0.62	102.11	389.000
UGB48 (IN)	10YR	10	4,094.000	12.00	1.21	(N/A)	(N/A)
UGB48 (OUT)	10YR	10	3,871.000	12.05	1.07	102.25	447.000
UGB48 (IN)	100YR	100	7,771.000	12.00	2.28	(N/A)	(N/A)
UGB48 (OUT)	100YR	100	7,549.000	12.05	2.03	102.48	544.000
UGB6 (IN)	2YR	2	10,529.000	12.00	3.09	(N/A)	(N/A)
UGB6 (OUT)	2YR	2	9,376.000	12.10	1.78	96.65	2,091.000
UGB6 (IN)	10YR	10	18,181.000	12.00	5.27	(N/A)	(N/A)
UGB6 (OUT)	10YR	10	16,600.000	12.05	4.23	97.45	2,605.000
UGB6 (IN)	100YR	100	34,873.000	12.00	10.02	(N/A)	(N/A)
UGB6 (OUT)	100YR	100	29,873.000	11.90	4.75	97.50	2,638.000
UGB5 (IN)	2YR	2	13,695.000	12.00	2.96	(N/A)	(N/A)
UGB5 (OUT)	2YR	2	12,068.000	12.15	1.88	96.59	2,046.000
UGB5 (IN)	10YR	10	23,835.000	12.00	5.75	(N/A)	(N/A)
UGB5 (OUT)	10YR	10	22,022.000	12.05	5.33	97.29	2,503.000
UGB5 (IN)	100YR	100	43,449.000	11.95	7.55	(N/A)	(N/A)
UGB5 (OUT)	100YR	100	41,590.000	12.00	7.36	97.45	2,604.000
UGB61 (IN)	2YR	2	6,093.000	12.00	1.86	(N/A)	(N/A)
UGB61 (OUT)	2YR	2	5,544.000	12.05	0.85	108.89	1,999.000
UGB61 (IN)	10YR	10	9,693.000	12.00	2.91	(N/A)	(N/A)
UGB61 (OUT)	10YR	10	9,144.000	12.05	1.29	109.18	2,651.000
UGB61 (IN)	100YR	100	17,249.000	12.00	5.10	(N/A)	(N/A)
UGB61 (OUT)	100YR	100	16,700.000	12.10	1.90	109.86	4,144.000
UGB37 (IN)	2YR	2	4,227.000	12.00	1.31	(N/A)	(N/A)
UGB37 (OUT)	2YR	2	2,815.000	12.10	0.52	104.80	1,982.000
UGB37 (IN)	10YR	10	7,131.000	12.00	2.20	(N/A)	(N/A)
UGB37 (OUT)	10YR	10	5,720.000	12.05	1.34	105.08	2,501.000
UGB37 (IN)	100YR	100	13,557.000	12.00	4.17	(N/A)	(N/A)
UGB37 (OUT)	100YR	100	12,145.000	12.05	2.84	105.46	3,195.000
UGB31 (IN)	2YR	2	9,536.000	12.00	2.90	(N/A)	(N/A)

Basin Routings Current Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB31 (OUT)	2YR	2	8,599.000	12.10	1.42	93.95	3,145.000
UGB31 (IN)	10YR	10	15,068.000	12.00	4.47	(N/A)	(N/A)
UGB31 (OUT)	10YR	10	14,130.000	12.10	2.15	94.27	4,061.000
UGB31 (IN)	100YR	100	26,466.000	12.00	7.70	(N/A)	(N/A)
UGB31 (OUT)	100YR	100	25,529.000	12.10	3.20	95.08	6,156.000
UGB4 (IN)	2YR	2	9,492.000	12.00	3.05	(N/A)	(N/A)
UGB4 (OUT)	2YR	2	3,787.000	12.20	0.71	86.47	3,989.000
UGB4 (IN)	10YR	10	15,588.000	12.00	4.90	(N/A)	(N/A)
UGB4 (OUT)	10YR	10	9,314.000	12.05	2.31	86.94	5,594.000
UGB4 (IN)	100YR	100	28,546.000	12.00	8.79	(N/A)	(N/A)
UGB4 (OUT)	100YR	100	21,789.000	12.05	5.19	87.54	7,558.000
UGB2 (IN)	2YR	2	17,655.000	12.00	5.02	(N/A)	(N/A)
UGB2 (OUT)	2YR	2	15,446.000	12.05	3.70	87.02	4,092.000
UGB2 (IN)	10YR	10	31,152.000	12.00	8.62	(N/A)	(N/A)
UGB2 (OUT)	10YR	10	28,943.000	12.00	7.31	87.28	4,572.000
UGB2 (IN)	100YR	100	61,459.000	12.00	17.78	(N/A)	(N/A)
UGB2 (OUT)	100YR	100	58,510.000	12.00	13.43	87.58	5,152.000
UGB13 (IN)	2YR	2	6,853.000	12.00	1.99	(N/A)	(N/A)
UGB13 (OUT)	2YR	2	6,436.000	12.00	1.66	87.67	790.000
UGB13 (IN)	10YR	10	11,569.000	12.00	2.99	(N/A)	(N/A)
UGB13 (OUT)	10YR	10	11,153.000	12.00	2.59	87.94	938.000
UGB13 (IN)	100YR	100	21,596.000	12.00	6.41	(N/A)	(N/A)
UGB13 (OUT)	100YR	100	21,172.000	12.00	5.62	88.62	1,306.000
UGB14 (IN)	2YR	2	3,665.000	12.00	1.17	(N/A)	(N/A)
UGB14 (OUT)	2YR	2	3,267.000	12.00	0.81	87.93	795.000
UGB14 (IN)	10YR	10	6,048.000	12.00	1.90	(N/A)	(N/A)
UGB14 (OUT)	10YR	10	5,649.000	12.05	1.13	88.40	1,054.000
UGB14 (IN)	100YR	100	11,140.000	12.00	3.43	(N/A)	(N/A)
UGB14 (OUT)	100YR	100	10,747.000	12.00	3.03	88.75	1,245.000
UGB9 (IN)	2YR	2	5,530.000	12.00	1.75	(N/A)	(N/A)
UGB9 (OUT)	2YR	2	4,673.000	12.00	1.38	101.75	1,373.000
UGB9 (IN)	10YR	10	9,229.000	12.00	2.87	(N/A)	(N/A)
UGB9 (OUT)	10YR	10	8,371.000	12.00	2.41	101.95	1,606.000
UGB9 (IN)	100YR	100	17,232.000	12.00	5.27	(N/A)	(N/A)

Basin Routings Current Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB9 (OUT)	100YR	100	16,375.000	12.00	4.66	102.32	2,012.000
UGB10 (IN)	2YR	2	9,542.000	12.00	2.93	(N/A)	(N/A)
UGB10 (OUT)	2YR	2	7,614.000	12.05	1.84	107.55	3,323.000
UGB10 (IN)	10YR	10	15,531.000	12.00	4.76	(N/A)	(N/A)
UGB10 (OUT)	10YR	10	13,603.000	12.05	3.22	107.80	3,943.000
UGB10 (IN)	100YR	100	28,444.000	12.00	8.69	(N/A)	(N/A)
UGB10 (OUT)	100YR	100	26,517.000	12.00	6.39	108.26	5,040.000
UGB54 (IN)	2YR	2	3,508.000	12.00	1.12	(N/A)	(N/A)
UGB54 (OUT)	2YR	2	3,129.000	12.00	0.85	100.16	803.000
UGB54 (IN)	10YR	10	5,866.000	12.00	1.84	(N/A)	(N/A)
UGB54 (OUT)	10YR	10	5,487.000	12.00	1.51	100.36	958.000
UGB54 (IN)	100YR	100	10,979.000	12.00	3.40	(N/A)	(N/A)
UGB54 (OUT)	100YR	100	10,600.000	12.00	2.93	100.73	1,227.000
UGB41 (IN)	2YR	2	1,858.000	12.00	0.60	(N/A)	(N/A)
UGB41 (OUT)	2YR	2	1,663.000	12.00	0.54	105.23	345.000
UGB41 (IN)	10YR	10	3,030.000	12.00	0.96	(N/A)	(N/A)
UGB41 (OUT)	10YR	10	2,835.000	12.00	0.86	105.41	403.000
UGB41 (IN)	100YR	100	5,499.000	12.00	1.70	(N/A)	(N/A)
UGB41 (OUT)	100YR	100	5,303.000	12.00	1.43	105.87	538.000
UGB27 (IN)	2YR	2	8,855.000	12.00	2.73	(N/A)	(N/A)
UGB27 (OUT)	2YR	2	3,955.000	12.05	1.27	101.28	3,785.000
UGB27 (IN)	10YR	10	13,875.000	12.00	4.20	(N/A)	(N/A)
UGB27 (OUT)	10YR	10	8,761.000	12.00	2.92	101.70	4,500.000
UGB27 (IN)	100YR	100	24,210.000	12.00	7.20	(N/A)	(N/A)
UGB27 (OUT)	100YR	100	18,912.000	12.00	5.82	102.27	5,318.000
Infil29 (IN)	2YR	2	11,996.000	12.00	3.75	(N/A)	(N/A)
Infil29 (OUT)	2YR	2	11,123.000	12.00	2.97	95.06	1,794.000
Infil29 (IN)	10YR	10	20,451.000	12.00	6.30	(N/A)	(N/A)
Infil29 (OUT)	10YR	10	19,578.000	12.00	5.08	95.38	2,290.000
Infil29 (IN)	100YR	100	39,152.000	12.00	11.88	(N/A)	(N/A)
Infil29 (OUT)	100YR	100	38,279.000	12.00	9.83	95.95	3,308.000

Basin Routings Current Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB7 (IN)	2YR	2	4,839.000	12.00	1.46	(N/A)	(N/A)
UGB7 (OUT)	2YR	2	2,298.000	12.10	0.51	100.12	1,658.000
UGB7 (IN)	10YR	10	8,173.000	12.00	2.45	(N/A)	(N/A)
UGB7 (OUT)	10YR	10	5,296.000	12.10	1.17	100.47	2,324.000
UGB7 (IN)	100YR	100	15,558.000	12.00	4.62	(N/A)	(N/A)
UGB7 (OUT)	100YR	100	12,419.000	12.10	1.88	101.24	3,729.000
UGB3 (IN)	2YR	2	22,133.000	17.50	0.42	(N/A)	(N/A)
UGB3 (OUT)	2YR	2	20,689.000	17.75	0.40	85.84	400.000
UGB3 (IN)	10YR	10	66,032.000	15.40	1.21	(N/A)	(N/A)
UGB3 (OUT)	10YR	10	63,381.000	15.60	1.18	86.16	1,036.000
UGB3 (IN)	100YR	100	156,729.000	12.50	10.44	(N/A)	(N/A)
UGB3 (OUT)	100YR	100	153,454.000	12.80	9.88	88.14	7,110.000

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio1
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
77.00	0.00	0.000	0.110	0.00	0.00	0.00
77.05	0.00	240.038	0.110	0.08	0.08	2.75
77.10	0.00	480.991	0.111	0.08	0.08	5.43
77.15	0.00	722.863	0.111	0.08	0.08	8.12
77.20	0.00	965.654	0.112	0.08	0.08	10.81
77.25	0.00	1,209.367	0.112	0.08	0.08	13.52
77.30	0.00	1,454.003	0.113	0.09	0.09	16.24
77.35	0.00	1,699.564	0.113	0.09	0.09	18.97
77.40	0.00	1,946.052	0.113	0.09	0.09	21.71
77.45	0.00	2,193.468	0.114	0.09	0.09	24.46
77.50	0.00	2,441.815	0.114	0.09	0.09	27.22
77.52	0.00	2,541.414	0.114	0.09	0.09	28.32
77.55	0.00	2,691.093	0.115	0.09	0.09	29.99
77.60	0.03	2,941.305	0.115	0.09	0.12	32.80
77.65	0.08	3,192.452	0.116	0.09	0.17	35.64
77.70	0.16	3,444.537	0.116	0.09	0.25	38.52
77.75	0.26	3,697.560	0.116	0.09	0.34	41.43
77.80	0.37	3,951.524	0.117	0.09	0.46	44.36
77.85	0.50	4,206.430	0.117	0.09	0.59	47.33
77.90	0.65	4,462.281	0.118	0.09	0.73	50.32
77.95	0.80	4,719.078	0.118	0.09	0.89	53.33
78.00	0.97	4,976.822	0.119	0.09	1.06	56.36
78.05	1.15	5,235.515	0.119	0.09	1.24	59.41
78.10	1.33	5,495.160	0.119	0.09	1.42	62.48
78.15	1.50	5,755.757	0.120	0.09	1.59	65.54
78.20	1.60	6,017.309	0.120	0.09	1.69	68.55
78.25	1.70	6,279.818	0.121	0.09	1.79	71.57
78.30	1.80	6,543.284	0.121	0.09	1.89	74.59

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio1 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
78.35	1.89	6,807.711	0.122	0.09	1.98	77.62
78.40	1.97	7,073.099	0.122	0.09	2.07	80.66
78.45	2.06	7,339.450	0.123	0.09	2.15	83.70
78.50	2.13	7,606.767	0.123	0.09	2.23	86.75
78.55	2.21	7,875.050	0.123	0.09	2.30	89.80
78.60	2.28	8,144.302	0.124	0.09	2.38	92.87
78.65	2.36	8,414.524	0.124	0.09	2.45	95.94
78.70	2.42	8,685.718	0.125	0.09	2.52	99.03
78.75	2.49	8,957.886	0.125	0.09	2.59	102.12
78.80	2.56	9,231.030	0.126	0.10	2.65	105.22
78.85	2.62	9,505.151	0.126	0.10	2.72	108.33
78.90	2.68	9,780.251	0.127	0.10	2.78	111.45
78.95	2.74	10,056.332	0.127	0.10	2.84	114.58
79.00	2.80	10,333.395	0.127	0.10	2.90	117.72
79.05	2.86	10,611.442	0.128	0.10	2.96	120.86
79.10	2.92	10,890.476	0.128	0.10	3.02	124.02
79.15	2.98	11,170.497	0.129	0.10	3.07	127.19
79.20	3.03	11,451.508	0.129	0.10	3.13	130.37
79.25	3.09	11,733.511	0.130	0.10	3.18	133.56
79.30	3.14	12,016.506	0.130	0.10	3.24	136.75
79.35	3.19	12,300.496	0.131	0.10	3.29	139.96
79.40	3.24	12,585.482	0.131	0.10	3.34	143.18
79.45	3.29	12,871.467	0.132	0.10	3.39	146.41
79.50	3.34	13,158.451	0.132	0.10	3.44	149.65
79.55	3.39	13,446.438	0.132	0.10	3.49	152.90
79.60	3.44	13,735.428	0.133	0.10	3.54	156.16
79.65	3.49	14,025.423	0.133	0.10	3.59	159.43
79.70	3.54	14,316.425	0.134	0.10	3.64	162.71
79.75	3.58	14,608.436	0.134	0.10	3.68	166.00
79.80	3.63	14,901.457	0.135	0.10	3.73	169.30
79.85	3.67	15,195.491	0.135	0.10	3.78	172.61
79.90	3.72	15,490.538	0.136	0.10	3.82	175.94
79.95	3.76	15,786.601	0.136	0.10	3.86	179.27
80.00	3.81	16,083.682	0.137	0.10	3.91	182.62
80.05	3.85	16,381.781	0.137	0.10	3.95	185.97
80.10	3.89	16,680.902	0.138	0.10	4.00	189.34
80.15	3.93	16,981.046	0.138	0.10	4.04	192.72
80.20	3.98	17,282.213	0.139	0.10	4.08	196.11
80.25	4.02	17,584.407	0.139	0.11	4.12	199.50
80.30	4.06	17,887.629	0.139	0.11	4.16	202.92
80.35	4.10	18,191.881	0.140	0.11	4.20	206.34
80.40	4.14	18,497.164	0.140	0.11	4.25	209.77
80.45	4.18	18,803.480	0.141	0.11	4.29	213.21

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio1 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
80.50	4.22	19,110.831	0.141	0.11	4.32	216.67
80.55	4.26	19,419.219	0.142	0.11	4.36	220.13
80.60	4.30	19,728.645	0.142	0.11	4.40	223.61
80.65	4.33	20,039.111	0.143	0.11	4.44	227.10
80.70	4.37	20,350.619	0.143	0.11	4.48	230.60
80.75	4.41	20,663.170	0.144	0.11	4.52	234.11
80.80	4.45	20,976.768	0.144	0.11	4.56	237.63
80.85	4.48	21,291.412	0.145	0.11	4.59	241.16
80.90	4.52	21,607.105	0.145	0.11	4.63	244.71
80.95	4.56	21,923.848	0.146	0.11	4.67	248.27
81.00	4.59	22,241.644	0.146	0.11	4.70	251.83
81.05	4.63	22,560.494	0.147	0.11	4.74	255.41
81.10	4.67	22,880.400	0.147	0.11	4.78	259.00
81.15	4.70	23,201.364	0.148	0.11	4.81	262.60
81.20	4.74	23,523.387	0.148	0.11	4.85	266.22
81.25	4.77	23,846.470	0.149	0.11	4.88	269.84
81.30	4.80	24,170.617	0.149	0.11	4.92	273.48
81.35	4.84	24,495.828	0.150	0.11	4.95	277.13
81.40	4.87	24,822.106	0.150	0.11	4.99	280.79
81.45	4.91	25,149.452	0.151	0.11	5.02	284.46
81.50	4.94	25,477.867	0.151	0.11	5.05	288.14
81.55	4.97	25,807.354	0.152	0.11	5.09	291.84
81.60	5.01	26,137.914	0.152	0.11	5.12	295.54
81.65	5.04	26,469.550	0.153	0.12	5.16	299.26
81.70	5.07	26,802.262	0.153	0.12	5.19	302.99
81.75	5.11	27,136.052	0.154	0.12	5.22	306.73
81.80	5.14	27,470.923	0.154	0.12	5.25	310.49
81.85	5.17	27,806.876	0.154	0.12	5.29	314.25
81.90	5.20	28,143.913	0.155	0.12	5.32	318.03
81.95	5.23	28,482.035	0.155	0.12	5.35	321.82
82.00	5.26	28,821.245	0.156	0.12	5.38	325.62
82.05	5.30	29,161.543	0.156	0.12	5.41	329.43
82.10	5.33	29,502.932	0.157	0.12	5.45	333.26
82.15	5.36	29,845.414	0.157	0.12	5.48	337.09
82.20	5.39	30,188.990	0.158	0.12	5.51	340.94
82.25	5.42	30,533.662	0.159	0.12	5.54	344.80
82.30	5.45	30,879.432	0.159	0.12	5.57	348.68
82.35	5.48	31,226.301	0.160	0.12	5.60	352.56
82.40	5.51	31,574.271	0.160	0.12	5.63	356.46
82.45	5.54	31,923.344	0.161	0.12	5.66	360.37
82.50	5.57	32,273.522	0.161	0.12	5.69	364.29
82.55	5.60	32,624.807	0.162	0.12	5.72	368.22
82.60	5.63	32,977.199	0.162	0.12	5.75	372.17

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio1
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
82.65	5.66	33,330.702	0.163	0.12	5.78	376.12
82.70	5.69	33,685.316	0.163	0.12	5.81	380.09
82.75	5.72	34,041.044	0.164	0.12	5.84	384.07
82.80	5.75	34,397.887	0.164	0.12	5.87	388.07
82.85	5.77	34,755.847	0.165	0.12	5.90	392.08
82.90	5.80	35,114.925	0.165	0.12	5.93	396.09
82.95	5.83	35,475.124	0.166	0.13	5.96	400.12
83.00	5.86	35,836.445	0.166	0.13	5.99	404.17
83.05	5.89	36,198.890	0.167	0.13	6.01	408.22
83.10	5.92	36,562.461	0.167	0.13	6.04	412.29
83.15	5.94	36,927.159	0.168	0.13	6.07	416.37
83.20	5.97	37,292.986	0.168	0.13	6.10	420.47
83.25	6.00	37,659.944	0.169	0.13	6.13	424.57
83.30	6.03	38,028.035	0.169	0.13	6.15	428.69
83.35	6.05	38,397.260	0.170	0.13	6.18	432.82
83.40	6.08	38,767.621	0.170	0.13	6.21	436.96
83.45	6.11	39,139.120	0.171	0.13	6.24	441.12
83.50	6.14	39,511.759	0.171	0.13	6.27	445.28
83.55	6.16	39,885.539	0.172	0.13	6.29	449.47
83.60	6.19	40,260.462	0.172	0.13	6.32	453.66
83.65	6.22	40,636.530	0.173	0.13	6.35	457.86
83.70	6.24	41,013.744	0.173	0.13	6.37	462.08
83.75	6.27	41,392.107	0.174	0.13	6.40	466.31
83.80	6.30	41,771.620	0.175	0.13	6.43	470.56
83.85	6.32	42,152.285	0.175	0.13	6.45	474.81
83.90	6.35	42,534.103	0.176	0.13	6.48	479.08
83.95	6.37	42,917.077	0.176	0.13	6.51	483.36
84.00	6.40	43,301.208	0.177	0.13	6.53	487.66
84.05	6.43	43,686.497	0.177	0.13	6.56	491.97
84.10	6.45	44,072.947	0.178	0.13	6.59	496.28
84.15	6.48	44,460.560	0.178	0.13	6.61	500.62
84.20	6.50	44,849.336	0.179	0.14	6.64	504.96
84.25	6.53	45,239.279	0.179	0.14	6.66	509.32
84.30	6.55	45,630.388	0.180	0.14	6.69	513.69
84.35	6.58	46,022.668	0.180	0.14	6.71	518.08
84.40	6.60	46,416.118	0.181	0.14	6.74	522.47
84.45	6.63	46,810.741	0.181	0.14	6.77	526.88
84.50	6.65	47,206.538	0.182	0.14	6.79	531.31
84.55	6.68	47,603.512	0.183	0.14	6.82	535.74
84.60	6.70	48,001.663	0.183	0.14	6.84	540.19
84.65	6.73	48,400.995	0.184	0.14	6.87	544.66
84.70	6.88	48,801.508	0.184	0.14	7.02	549.26
84.75	7.15	49,203.204	0.185	0.14	7.29	553.99

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio1
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
84.80	7.48	49,606.085	0.185	0.14	7.62	558.80
84.85	7.87	50,010.153	0.186	0.14	8.01	563.68
84.90	8.31	50,415.409	0.186	0.14	8.45	568.62
84.95	8.80	50,821.856	0.187	0.14	8.94	573.62
85.00	9.32	51,229.495	0.187	0.14	9.46	578.68
85.05	9.88	51,638.327	0.188	0.14	10.02	583.78
85.10	10.48	52,048.355	0.189	0.14	10.62	588.93
85.15	11.11	52,459.580	0.189	0.14	11.25	594.13
85.20	11.77	52,872.003	0.190	0.14	11.91	599.38
85.25	12.45	53,285.628	0.190	0.14	12.60	604.66
85.30	13.17	53,700.455	0.191	0.14	13.32	609.99
85.35	13.92	54,116.486	0.191	0.14	14.06	615.35
85.40	14.69	54,533.724	0.192	0.15	14.83	620.76
85.45	15.48	54,952.168	0.192	0.15	15.63	626.21
85.50	16.30	55,371.823	0.193	0.15	16.45	631.69
85.55	17.15	55,792.688	0.194	0.15	17.29	637.21
85.60	18.16	56,214.766	0.194	0.15	18.31	642.92
85.65	19.33	56,638.060	0.195	0.15	19.48	648.79
85.70	20.60	57,062.569	0.195	0.15	20.75	654.77
85.75	21.95	57,488.297	0.196	0.15	22.10	660.86
85.80	23.39	57,915.244	0.196	0.15	23.54	667.04
85.85	24.89	58,343.413	0.197	0.15	25.04	673.30
85.90	26.46	58,772.806	0.197	0.15	26.61	679.64
85.95	28.10	59,203.423	0.198	0.15	28.25	686.06
86.00	29.79	59,635.268	0.199	0.15	29.94	692.55
86.05	31.54	60,068.341	0.199	0.15	31.69	699.11
86.10	33.34	60,502.644	0.200	0.15	33.49	705.74
86.15	35.20	60,938.180	0.200	0.15	35.35	712.44
86.20	37.10	61,374.949	0.201	0.15	37.26	719.20
86.25	39.06	61,812.954	0.201	0.15	39.21	726.02
86.30	41.06	62,252.197	0.202	0.15	41.21	732.91
86.35	43.11	62,692.678	0.203	0.15	43.26	739.85
86.40	45.20	63,134.401	0.203	0.15	45.36	746.85
86.45	47.34	63,577.366	0.204	0.15	47.50	753.91
86.50	49.52	64,021.575	0.204	0.15	49.68	761.03
86.55	53.05	64,467.030	0.205	0.15	53.20	769.50
86.60	56.61	64,913.733	0.205	0.16	56.77	778.03
86.65	60.22	65,361.686	0.206	0.16	60.37	786.61
86.70	63.86	65,810.890	0.207	0.16	64.02	795.25
86.75	67.54	66,261.347	0.207	0.16	67.70	803.94
86.80	71.26	66,713.059	0.208	0.16	71.42	812.68
86.85	75.02	67,166.027	0.208	0.16	75.18	821.47
86.90	78.82	67,620.254	0.209	0.16	78.98	830.31

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio1 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
86.95	82.65	68,075.741	0.209	0.16	82.81	839.21
87.00	86.52	68,532.489	0.210	0.16	86.68	848.15
87.05	89.20	68,990.947	0.211	0.16	89.36	855.92
87.10	91.91	69,451.562	0.212	0.16	92.07	863.75
87.15	94.66	69,914.339	0.213	0.16	94.82	871.64
87.20	97.44	70,379.285	0.214	0.16	97.60	879.59
87.25	100.25	70,846.403	0.215	0.16	100.41	887.60
87.30	103.10	71,315.700	0.216	0.16	103.26	895.66
87.35	105.98	71,787.179	0.217	0.16	106.14	903.78
87.40	108.89	72,260.847	0.218	0.16	109.06	911.96
87.45	111.84	72,736.708	0.219	0.17	112.00	920.19
87.50	114.81	73,214.767	0.220	0.17	114.98	928.47
87.55	117.82	73,697.097	0.223	0.17	117.99	936.84
87.60	120.85	74,185.793	0.226	0.17	121.03	945.31
87.65	123.92	74,680.899	0.229	0.17	124.10	953.88
87.70	127.02	75,182.455	0.232	0.18	127.20	962.56
87.75	130.15	75,690.503	0.235	0.18	130.32	971.33
87.80	133.30	76,205.085	0.238	0.18	133.48	980.21
87.85	136.49	76,726.243	0.241	0.18	136.67	989.19
87.90	139.71	77,254.018	0.244	0.18	139.89	998.27
87.95	142.95	77,788.453	0.247	0.19	143.14	1,007.45
88.00	146.22	78,329.588	0.250	0.19	146.41	1,016.74

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Bio1 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	18.92 ft³/s	Time to Peak (Flow, In)	12.20 hours
Infiltration (Peak)	0.13 ft³/s	Time to Peak (Infiltration)	13.45 hours
Flow (Peak Outlet)	6.31 ft³/s	Time to Peak (Flow, Outlet)	13.45 hours

Elevation (Water Surface, Peak)	83.83 ft
Volume (Peak)	42,009.656 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	160,728.000 ft³
Volume (Total Infiltration)	11,113.000 ft³
Volume (Total Outlet Outflow)	149,615.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio1 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	50.33 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.15 ft³/s	Time to Peak (Infiltration)	12.30 hours
Flow (Peak Outlet)	34.97 ft³/s	Time to Peak (Flow, Outlet)	12.30 hours

Elevation (Water Surface, Peak)	86.14 ft
Volume (Peak)	60,884.106 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	343,555.000 ft³
Volume (Total Infiltration)	14,580.000 ft³
Volume (Total Outlet Outflow)	327,785.000 ft³
Volume (Retained)	1,190.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio1 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	114.51 ft³/s	Time to Peak (Flow, In)	12.05 hours
Infiltration (Peak)	0.17 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	110.55 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	87.43 ft
Volume (Peak)	72,528.145 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	753,775.000 ft³
Volume (Total Infiltration)	16,352.000 ft³
Volume (Total Outlet Outflow)	735,881.000 ft³
Volume (Retained)	1,542.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio1 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Bio1'

Upstream Link	Upstream Node
Out4	UGB4
Out11	UGB11
Out 12	Bio12
Out7	UGB7
<Catchment to Outflow Node>	DA1 Perv Basin
Out5	UGB5
Out8	Infil8
<Catchment to Outflow Node>	DA1 Imp
Out10	UGB10
<Catchment to Outflow Node>	DA1 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out4	3,787.050	12.20	0.71
Flow (From)	Out11	27,664.422	12.00	3.40
Flow (From)	Out 12	96,397.313	12.20	10.99
Flow (From)	Out7	2,298.499	12.10	0.51
Flow (From)	DA1 Perv Basin	778.448	12.00	0.24
Flow (From)	Out5	12,068.500	12.15	1.88
Flow (From)	Out8	1,855.241	12.50	0.17
Flow (From)	DA1 Imp	5,987.937	12.00	1.88
Flow (From)	Out10	7,614.352	12.05	1.84
Flow (From)	DA1 Perv	2,276.092	12.05	0.53
Flow (In)	Bio1	160,727.852	12.20	18.92

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio1 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Bio1'

Upstream Link	Upstream Node
Out4	UGB4
Out11	UGB11
Out 12	Bio12
Out7	UGB7
<Catchment to Outflow Node>	DA1 Perv Basin
Out5	UGB5
Out8	Infil8
<Catchment to Outflow Node>	DA1 Imp
Out10	UGB10
<Catchment to Outflow Node>	DA1 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out4	9,314.270	12.05	2.31
Flow (From)	Out11	52,935.891	12.00	6.95
Flow (From)	Out 12	218,457.708	12.10	30.30
Flow (From)	Out7	5,296.146	12.10	1.17
Flow (From)	DA1 Perv Basin	1,904.572	12.00	0.64
Flow (From)	Out5	22,022.262	12.05	5.33
Flow (From)	Out8	4,836.067	12.20	0.60
Flow (From)	DA1 Imp	9,499.035	12.00	2.91
Flow (From)	Out10	13,603.145	12.05	3.22
Flow (From)	DA1 Perv	5,686.077	12.05	1.52
Flow (In)	Bio1	343,555.173	12.10	50.33

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio1 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Bio1'

Upstream Link	Upstream Node
Out4	UGB4
Out11	UGB11
Out 12	Bio12
Out7	UGB7
<Catchment to Outflow Node>	DA1 Perv Basin
Out5	UGB5
Out8	Infil8
<Catchment to Outflow Node>	DA1 Imp
Out10	UGB10
<Catchment to Outflow Node>	DA1 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out4	21,789.051	12.05	5.19
Flow (From)	Out11	109,915.229	12.00	16.71
Flow (From)	Out 12	493,515.903	12.10	71.67
Flow (From)	Out7	12,418.862	12.10	1.88
Flow (From)	DA1 Perv Basin	4,781.118	12.00	1.62
Flow (From)	Out5	41,590.371	12.00	7.36
Flow (From)	Out8	12,011.334	12.05	1.76
Flow (From)	DA1 Imp	16,737.272	12.00	5.01
Flow (From)	Out10	26,516.567	12.00	6.39
Flow (From)	DA1 Perv	14,498.921	12.05	3.98
Flow (In)	Bio1	753,774.628	12.05	114.51

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio12
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
85.25	0.00	0.000	0.125	0.00	0.00	0.00
85.30	0.00	272.610	0.125	0.08	0.08	3.11
85.35	0.00	545.939	0.126	0.08	0.08	6.15
85.40	0.00	819.989	0.126	0.08	0.08	9.19
85.45	0.00	1,094.761	0.126	0.08	0.08	12.25
85.50	0.00	1,370.256	0.127	0.08	0.08	15.31
85.55	0.00	1,646.474	0.127	0.08	0.08	18.38
85.60	0.00	1,923.417	0.127	0.08	0.08	21.45
85.65	0.00	2,201.085	0.128	0.08	0.08	24.54
85.70	0.00	2,479.480	0.128	0.08	0.08	27.63
85.75	0.00	2,758.602	0.128	0.08	0.08	30.74
85.80	0.00	3,038.453	0.129	0.08	0.08	33.84
85.85	0.00	3,319.033	0.129	0.08	0.08	36.96
85.90	0.00	3,600.343	0.129	0.08	0.08	40.09
85.95	0.00	3,882.384	0.130	0.08	0.08	43.22
86.00	0.00	4,165.158	0.130	0.09	0.09	46.36
86.05	0.00	4,448.833	0.130	0.09	0.09	49.52
86.10	0.00	4,733.578	0.131	0.09	0.09	52.68
86.15	0.00	5,019.397	0.131	0.09	0.09	55.86
86.20	0.07	5,306.290	0.132	0.09	0.16	59.12
86.25	0.14	5,594.260	0.132	0.09	0.23	62.39
86.30	0.30	5,883.310	0.133	0.09	0.39	65.76
86.35	0.46	6,173.440	0.133	0.09	0.55	69.14
86.40	0.62	6,464.653	0.134	0.09	0.70	72.53
86.45	0.77	6,756.951	0.134	0.09	0.86	75.94
86.50	0.93	7,050.336	0.135	0.09	1.02	79.36
86.55	1.16	7,344.810	0.135	0.09	1.25	82.86
86.60	1.40	7,640.375	0.136	0.09	1.48	86.38

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio12 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
86.65	1.63	7,937.033	0.136	0.09	1.72	89.91
86.70	1.86	8,234.786	0.137	0.09	1.95	93.45
86.75	2.09	8,533.636	0.137	0.09	2.18	97.00
86.80	2.38	8,833.585	0.138	0.09	2.47	100.62
86.85	2.67	9,134.635	0.138	0.09	2.76	104.25
86.90	2.95	9,436.789	0.139	0.09	3.04	107.90
86.95	3.24	9,740.047	0.139	0.09	3.33	111.55
87.00	3.53	10,044.413	0.140	0.09	3.62	115.22
87.05	4.16	10,350.387	0.141	0.09	4.25	119.26
87.10	4.79	10,658.473	0.142	0.09	4.89	123.31
87.15	5.43	10,968.680	0.143	0.09	5.52	127.39
87.20	6.06	11,281.013	0.144	0.09	6.15	131.50
87.25	6.69	11,595.481	0.145	0.09	6.79	135.63
87.30	7.61	11,912.091	0.146	0.10	7.71	140.07
87.35	8.54	12,230.849	0.147	0.10	8.63	144.53
87.40	9.46	12,551.764	0.148	0.10	9.55	149.02
87.45	10.38	12,874.842	0.149	0.10	10.48	153.53
87.50	11.30	13,200.090	0.150	0.10	11.40	158.07
87.55	12.74	13,527.517	0.151	0.10	12.84	163.14
87.60	14.18	13,857.129	0.152	0.10	14.28	168.25
87.65	15.62	14,188.934	0.153	0.10	15.72	173.37
87.70	17.06	14,522.938	0.154	0.10	17.16	178.52
87.75	18.50	14,859.150	0.155	0.10	18.60	183.70
87.80	20.33	15,197.576	0.156	0.10	20.43	189.29
87.85	22.16	15,538.223	0.157	0.10	22.26	194.91
87.90	23.99	15,881.099	0.158	0.10	24.10	200.55
87.95	25.82	16,226.212	0.159	0.10	25.93	206.22
88.00	27.66	16,573.568	0.160	0.10	27.76	211.91
88.05	29.67	16,923.106	0.161	0.11	29.78	217.81
88.10	31.68	17,274.764	0.162	0.11	31.79	223.73
88.15	33.70	17,628.549	0.163	0.11	33.80	229.68
88.20	35.71	17,984.467	0.164	0.11	35.82	235.64
88.25	37.72	18,342.525	0.165	0.11	37.83	241.64
88.30	40.18	18,702.729	0.166	0.11	40.29	248.09
88.35	42.63	19,065.084	0.167	0.11	42.74	254.57
88.40	45.08	19,429.599	0.168	0.11	45.19	261.08
88.45	47.54	19,796.279	0.169	0.11	47.65	267.61
88.50	49.99	20,165.131	0.170	0.11	50.10	274.16
88.55	52.69	20,536.160	0.171	0.11	52.80	280.98
88.60	55.38	20,909.374	0.172	0.11	55.49	287.82
88.65	58.07	21,284.779	0.173	0.11	58.19	294.68
88.70	60.77	21,662.381	0.174	0.11	60.88	301.57
88.75	63.46	22,042.186	0.175	0.11	63.57	308.49

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio12 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
88.80	68.23	22,424.202	0.176	0.12	68.35	317.50
88.85	73.00	22,808.434	0.177	0.12	73.12	326.54
88.90	77.77	23,194.889	0.178	0.12	77.89	335.61
88.95	82.54	23,583.573	0.179	0.12	82.66	344.70
89.00	87.32	23,974.493	0.180	0.12	87.43	353.82
89.05	92.74	24,367.595	0.181	0.12	92.86	363.61
89.10	97.36	24,762.822	0.182	0.12	97.48	372.62
89.15	100.77	25,160.182	0.183	0.12	100.89	380.44
89.20	104.17	25,559.680	0.184	0.12	104.30	388.29
89.25	107.58	25,961.321	0.185	0.12	107.70	396.16
89.30	110.92	26,365.112	0.186	0.12	111.04	403.99
89.35	114.25	26,771.057	0.187	0.12	114.38	411.83
89.40	117.59	27,179.164	0.188	0.12	117.71	419.70
89.45	120.93	27,589.436	0.189	0.12	121.05	427.60
89.50	124.26	28,001.882	0.190	0.12	124.39	435.52
89.55	127.78	28,416.505	0.191	0.13	127.90	443.64
89.60	131.29	28,833.312	0.192	0.13	131.42	451.79
89.65	134.81	29,252.308	0.193	0.13	134.93	459.96
89.70	138.32	29,673.500	0.194	0.13	138.45	468.16
89.75	141.84	30,096.892	0.195	0.13	141.97	476.37
89.80	145.52	30,522.491	0.196	0.13	145.65	484.79
89.85	149.21	30,950.303	0.197	0.13	149.34	493.23
89.90	152.89	31,380.333	0.198	0.13	153.02	501.69
89.95	156.58	31,812.587	0.199	0.13	156.71	510.18
90.00	160.26	32,247.070	0.200	0.13	160.39	518.69

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio12 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	13.98 ft³/s	Time to Peak (Flow, In)	12.05 hours
Infiltration (Peak)	0.10 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	10.99 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	87.48 ft
Volume (Peak)	13,090.312 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	109,965.000 ft³
Volume (Total Infiltration)	12,395.000 ft³
Volume (Total Outlet Outflow)	96,397.000 ft³
Volume (Retained)	1,173.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio12 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	32.74 ft³/s	Time to Peak (Flow, In)	12.05 hours
Infiltration (Peak)	0.11 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	30.30 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	88.07 ft
Volume (Peak)	17,033.506 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	235,981.000 ft³
Volume (Total Infiltration)	13,248.000 ft³
Volume (Total Outlet Outflow)	218,458.000 ft³
Volume (Retained)	4,275.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio12 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	80.02 ft³/s	Time to Peak (Flow, In)	12.05 hours
Infiltration (Peak)	0.12 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	76.91 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	88.89 ft
Volume (Peak)	23,125.213 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	514,497.000 ft³
Volume (Total Infiltration)	14,227.000 ft³
Volume (Total Outlet Outflow)	495,711.000 ft³
Volume (Retained)	4,559.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio12 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Bio12'

Upstream Link	Upstream Node
Out41	UGB41
Out55	UGB55
Out53	Bio53
Out52	Bio52
Out54	UGB54
Out3	UGB3
Out18	UGB18
<Catchment to Outflow Node>	DA12A Perv
Out2	UGB2
<Catchment to Outflow Node>	DA12A Imp
Out22	UGB22

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out41	1,662.766	12.00	0.54
Flow (From)	Out55	18,923.621	12.25	1.49
Flow (From)	Out53	3,137.506	12.05	0.68
Flow (From)	Out52	7,196.985	12.05	1.71
Flow (From)	Out54	3,129.393	12.00	0.85
Flow (From)	Out3	20,688.771	17.75	0.40
Flow (From)	Out18	27,540.892	12.15	4.03
Flow (From)	DA12A Perv	4,669.927	12.10	0.88
Flow (From)	Out2	15,445.715	12.05	3.70
Flow (From)	DA12A Imp	4,138.136	12.00	1.22
Flow (From)	Out22	3,431.126	14.25	0.14
Flow (In)	Bio12	109,964.837	12.05	13.98

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio12 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Bio12'

Upstream Link	Upstream Node
Out41	UGB41
Out55	UGB55
Out53	Bio53
Out52	Bio52
Out54	UGB54
Out3	UGB3
Out18	UGB18
<Catchment to Outflow Node>	DA12A Perv
Out2	UGB2
<Catchment to Outflow Node>	DA12A Imp
Out22	UGB22

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out41	2,834.506	12.00	0.86
Flow (From)	Out55	34,262.025	12.10	4.41
Flow (From)	Out53	6,503.224	12.05	1.45
Flow (From)	Out52	14,588.264	12.05	3.28
Flow (From)	Out54	5,487.209	12.00	1.51
Flow (From)	Out3	63,381.158	15.60	1.18
Flow (From)	Out18	50,189.121	12.10	10.48
Flow (From)	DA12A Perv	12,823.139	12.10	3.03
Flow (From)	Out2	28,942.921	12.00	7.31
Flow (From)	DA12A Imp	6,485.147	12.00	1.88
Flow (From)	Out22	10,483.789	12.45	0.87
Flow (In)	Bio12	235,980.504	12.05	32.74

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio12 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Bio12'

Upstream Link	Upstream Node
Out41	UGB41
Out55	UGB55
Out53	Bio53
Out52	Bio52
Out54	UGB54
Out3	UGB3
Out18	UGB18
<Catchment to Outflow Node>	DA12A Perv
Out2	UGB2
<Catchment to Outflow Node>	DA12A Imp
Out22	UGB22

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out41	5,303.437	12.00	1.43
Flow (From)	Out55	66,681.773	12.05	12.03
Flow (From)	Out53	14,350.796	12.05	3.12
Flow (From)	Out52	31,964.480	12.05	6.97
Flow (From)	Out54	10,600.073	12.00	2.93
Flow (From)	Out3	153,453.965	12.80	9.88
Flow (From)	Out18	101,230.613	12.05	24.39
Flow (From)	DA12A Perv	34,997.963	12.10	8.68
Flow (From)	Out2	58,509.582	12.00	13.43
Flow (From)	DA12A Imp	11,315.951	12.00	3.23
Flow (From)	Out22	26,088.861	12.10	3.89
Flow (In)	Bio12	514,497.493	12.05	80.02

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio25 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.00	0.00	0.000	0.310	0.00	0.00	0.00
100.25	0.00	3,428.974	0.320	0.00	0.00	38.10
100.50	0.00	6,965.196	0.330	0.00	0.00	77.39
100.75	0.00	10,610.318	0.340	0.00	0.00	117.89
101.00	0.00	14,365.992	0.350	0.00	0.00	159.62
101.25	0.00	18,230.715	0.360	0.00	0.00	202.56
101.35	0.00	19,806.601	0.364	0.00	0.00	220.07
101.50	0.03	22,202.865	0.370	0.00	0.03	246.73
101.75	0.12	26,283.915	0.380	0.00	0.12	292.17
102.00	0.17	30,475.338	0.390	0.00	0.17	338.79
102.25	0.77	34,775.780	0.400	0.00	0.77	387.17
102.50	1.83	39,183.794	0.410	0.00	1.83	437.21
102.75	3.19	43,700.708	0.420	0.00	3.19	488.75
103.00	4.79	48,327.850	0.430	0.00	4.79	541.77
103.25	6.60	53,077.054	0.442	0.00	6.60	596.35
103.50	8.60	57,960.510	0.455	0.00	8.60	652.61
103.75	10.77	62,980.092	0.467	0.00	10.77	710.55
104.00	13.10	68,137.670	0.480	0.00	13.10	770.19

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Bio25 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.23 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.05 ft³/s	Time to Peak (Flow, Outlet)	24.00 hours

Elevation (Water Surface, Peak)	101.53 ft
Volume (Peak)	22,763.506 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	23,484.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	2,792.000 ft³
Volume (Retained)	20,685.000 ft³
Volume (Unrouted)	-7.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio25 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	10.65 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.34 ft³/s	Time to Peak (Flow, Outlet)	16.70 hours

Elevation (Water Surface, Peak)	102.07 ft
Volume (Peak)	31,668.641 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	41,159.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	18,874.000 ft³
Volume (Retained)	22,278.000 ft³
Volume (Unrouted)	-7.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio25 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	20.42 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.68 ft³/s	Time to Peak (Flow, Outlet)	12.60 hours

Elevation (Water Surface, Peak)	102.83 ft
Volume (Peak)	45,118.993 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	81,253.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	58,796.000 ft³
Volume (Retained)	22,447.000 ft³
Volume (Unrouted)	-10.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio25 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Bio25'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA25 Imp
<Catchment to Outflow Node>	DA25 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA25 Imp	20,644.433	12.00	5.96
Flow (From)	DA25 Perv	2,839.377	12.10	0.50
Flow (In)	Bio25	23,483.810	12.00	6.23

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio25 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Bio25'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA25 Imp
<Catchment to Outflow Node>	DA25 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA25 Imp	33,150.048	12.00	9.32
Flow (From)	DA25 Perv	8,009.204	12.10	1.87
Flow (In)	Bio25	41,159.252	12.00	10.65

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio25 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Bio25'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA25 Imp
<Catchment to Outflow Node>	DA25 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA25 Imp	58,985.769	12.00	16.15
Flow (From)	DA25 Perv	22,266.822	12.10	5.50
Flow (In)	Bio25	81,252.591	12.00	20.42

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio26
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
97.00	0.00	0.000	0.100	0.00	0.00	0.00
97.25	0.00	1,151.333	0.112	0.06	0.06	12.85
97.50	0.00	2,431.915	0.124	0.06	0.06	27.08
97.75	0.00	3,848.622	0.137	0.07	0.07	42.83
97.80	0.00	4,148.903	0.139	0.07	0.07	46.17
98.00	0.27	5,408.330	0.150	0.08	0.34	60.44
98.25	0.91	7,105.820	0.162	0.08	0.99	79.94
98.50	1.76	8,934.548	0.174	0.09	1.84	101.12
98.75	3.34	10,899.402	0.187	0.09	3.43	124.54
99.00	5.53	13,005.267	0.200	0.10	5.64	150.14
99.25	8.16	15,222.916	0.207	0.10	8.27	177.41
99.50	11.15	17,520.814	0.215	0.11	11.26	205.93
99.75	14.46	19,900.386	0.222	0.11	14.57	235.69
100.00	18.06	22,363.060	0.230	0.12	18.17	266.65
100.25	21.92	24,921.454	0.240	0.12	22.04	298.95
100.50	26.04	27,588.747	0.250	0.13	26.16	332.71

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio26 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.57 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.09 ft³/s	Time to Peak (Infiltration)	12.35 hours
Flow (Peak Outlet)	1.87 ft³/s	Time to Peak (Flow, Outlet)	12.35 hours

Elevation (Water Surface, Peak)	98.52 ft
Volume (Peak)	9,066.997 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	23,243.000 ft³
Volume (Total Infiltration)	8,342.000 ft³
Volume (Total Outlet Outflow)	14,721.000 ft³
Volume (Retained)	173.000 ft³
Volume (Unrouted)	-8.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio26 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	12.40 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.10 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	6.10 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	99.05 ft
Volume (Peak)	13,475.930 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	42,508.000 ft³
Volume (Total Infiltration)	9,133.000 ft³
Volume (Total Outlet Outflow)	33,166.000 ft³
Volume (Retained)	199.000 ft³
Volume (Unrouted)	-9.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio26 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	24.10 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.11 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	14.46 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	99.75 ft
Volume (Peak)	19,904.796 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	85,404.000 ft³
Volume (Total Infiltration)	10,120.000 ft³
Volume (Total Outlet Outflow)	75,042.000 ft³
Volume (Retained)	231.000 ft³
Volume (Unrouted)	-10.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio26 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Bio26'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA26 Imp
<Catchment to Outflow Node>	DA26 Perv
Out27	UGB27

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA26 Imp	17,005.969	12.00	5.22
Flow (From)	DA26 Perv	2,282.665	12.10	0.44
Flow (From)	Out27	3,954.825	12.05	1.27
Flow (In)	Bio26	23,243.459	12.00	6.57

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio26 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Bio26'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA26 Imp
<Catchment to Outflow Node>	DA26 Perv
Out27	UGB27

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA26 Imp	27,307.716	12.00	8.15
Flow (From)	DA26 Perv	6,438.878	12.05	1.66
Flow (From)	Out27	8,761.032	12.00	2.92
Flow (In)	Bio26	42,507.626	12.00	12.40

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio26 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Bio26'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA26 Imp
<Catchment to Outflow Node>	DA26 Perv
Out27	UGB27

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA26 Imp	48,590.403	12.00	14.11
Flow (From)	DA26 Perv	17,901.294	12.05	4.92
Flow (From)	Out27	18,912.225	12.00	5.82
Flow (In)	Bio26	85,403.922	12.00	24.10

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio28
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
91.00	0.00	0.000	0.095	0.00	0.00	0.00
91.05	0.00	207.698	0.096	0.00	0.00	2.31
91.10	0.00	416.975	0.096	0.00	0.00	4.63
91.15	0.00	627.838	0.097	0.00	0.00	6.98
91.20	0.00	840.293	0.098	0.00	0.00	9.34
91.25	0.00	1,054.345	0.099	0.00	0.00	11.71
91.30	0.00	1,270.001	0.099	0.00	0.00	14.11
91.35	0.00	1,487.267	0.100	0.00	0.00	16.53
91.40	0.00	1,706.148	0.101	0.00	0.00	18.96
91.45	0.00	1,926.650	0.102	0.00	0.00	21.41
91.50	0.00	2,148.780	0.102	0.00	0.00	23.88
91.55	0.03	2,372.544	0.103	0.00	0.03	26.40
91.60	0.09	2,597.947	0.104	0.00	0.09	28.96
91.65	0.17	2,824.995	0.105	0.00	0.17	31.56
91.70	0.27	3,053.695	0.105	0.00	0.27	34.20
91.75	0.38	3,284.053	0.106	0.00	0.38	36.86
91.80	0.49	3,516.073	0.107	0.00	0.49	39.56
91.85	0.62	3,749.764	0.108	0.00	0.62	42.29
91.90	0.76	3,985.129	0.108	0.00	0.76	45.04
91.95	0.91	4,222.176	0.109	0.00	0.91	47.82
92.00	1.06	4,460.911	0.110	0.00	1.06	50.63
92.05	1.22	4,701.282	0.111	0.00	1.22	53.46
92.10	1.39	4,943.240	0.111	0.00	1.39	56.32
92.15	1.57	5,186.790	0.112	0.00	1.57	59.20
92.20	1.76	5,431.937	0.113	0.00	1.76	62.11
92.25	1.95	5,678.686	0.114	0.00	1.95	65.05
92.30	2.15	5,927.042	0.114	0.00	2.15	68.00
92.35	2.35	6,177.011	0.115	0.00	2.35	70.98
92.40	2.56	6,428.598	0.116	0.00	2.56	73.99

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio28
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
92.45	2.77	6,681.808	0.117	0.00	2.77	77.02
92.50	2.99	6,936.646	0.117	0.00	2.99	80.06
92.55	3.21	7,193.118	0.118	0.00	3.21	83.13
92.60	3.43	7,451.228	0.119	0.00	3.43	86.22
92.65	3.66	7,710.982	0.120	0.00	3.66	89.34
92.70	3.89	7,972.386	0.120	0.00	3.89	92.48
92.75	4.13	8,235.444	0.121	0.00	4.13	95.64
92.80	4.37	8,500.161	0.122	0.00	4.37	98.82
92.85	4.62	8,766.544	0.123	0.00	4.62	102.02
92.90	4.87	9,034.596	0.123	0.00	4.87	105.25
92.95	5.12	9,304.323	0.124	0.00	5.12	108.50
93.00	5.38	9,575.731	0.125	0.00	5.38	111.77
93.05	5.64	9,848.879	0.126	0.00	5.64	115.07
93.10	5.90	10,123.824	0.127	0.00	5.90	118.39
93.15	6.17	10,400.573	0.127	0.00	6.17	121.73
93.20	6.44	10,679.133	0.128	0.00	6.44	125.10
93.25	6.72	10,959.508	0.129	0.00	6.72	128.49
93.30	7.00	11,241.705	0.130	0.00	7.00	131.91
93.35	7.28	11,525.730	0.131	0.00	7.28	135.34
93.40	7.57	11,811.589	0.132	0.00	7.57	138.81
93.45	7.86	12,099.287	0.133	0.00	7.86	142.29
93.50	8.15	12,388.830	0.133	0.00	8.15	145.81
93.55	8.45	12,680.225	0.134	0.00	8.45	149.34
93.60	8.75	12,973.476	0.135	0.00	8.75	152.90
93.65	9.05	13,268.591	0.136	0.00	9.05	156.48
93.70	9.38	13,565.575	0.137	0.00	9.38	160.11
93.75	9.67	13,864.434	0.138	0.00	9.67	163.72
93.80	9.98	14,165.174	0.139	0.00	9.98	167.37
93.85	10.30	14,467.800	0.139	0.00	10.30	171.05
93.90	10.62	14,772.319	0.140	0.00	10.62	174.75
93.95	10.94	15,078.737	0.141	0.00	10.94	178.48
94.00	11.26	15,387.058	0.142	0.00	11.26	182.23
94.05	11.59	15,697.286	0.143	0.00	11.59	186.01
94.10	11.92	16,009.422	0.144	0.00	11.92	189.80
94.15	12.26	16,323.470	0.145	0.00	12.26	193.63
94.20	12.59	16,639.439	0.146	0.00	12.59	197.47
94.25	12.93	16,957.332	0.146	0.00	12.93	201.34
94.30	13.27	17,277.156	0.147	0.00	13.27	205.24
94.35	13.61	17,598.917	0.148	0.00	13.61	209.16
94.40	13.96	17,922.621	0.149	0.00	13.96	213.10
94.45	14.30	18,248.273	0.150	0.00	14.30	217.06
94.50	14.65	18,575.879	0.151	0.00	14.65	221.05
94.55	15.00	18,905.446	0.152	0.00	15.00	225.07

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio28 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
94.60	15.36	19,236.979	0.153	0.00	15.36	229.10
94.65	15.71	19,570.484	0.154	0.00	15.71	233.16
94.70	16.07	19,905.966	0.154	0.00	16.07	237.25
94.75	16.42	20,243.432	0.155	0.00	16.42	241.35
94.80	16.78	20,582.887	0.156	0.00	16.78	245.48
94.85	17.14	20,924.338	0.157	0.00	17.14	249.63
94.90	17.50	21,267.790	0.158	0.00	17.50	253.81
94.95	17.86	21,613.249	0.159	0.00	17.86	258.00
95.00	18.21	21,960.720	0.160	0.00	18.21	262.22

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Bio28 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.28 ft^3/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.98 ft^3/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	92.50 ft
Volume (Peak)	6,919.806 ft^3

Mass Balance (ft^3)	
Volume (Initial)	0.000 ft^3
Volume (Total Inflow)	22,659.000 ft^3
Volume (Total Infiltration)	0.000 ft^3
Volume (Total Outlet Outflow)	20,510.000 ft^3
Volume (Retained)	2,149.000 ft^3
Volume (Unrouted)	0.000 ft^3
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio28 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	10.73 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	5.53 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	93.03 ft
Volume (Peak)	9,738.421 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	39,796.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	37,648.000 ft³
Volume (Retained)	2,149.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio28 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	20.69 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	11.44 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	94.03 ft
Volume (Peak)	15,556.500 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	78,365.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	76,217.000 ft³
Volume (Retained)	2,149.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio28 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Bio28'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA28 Perv
<Catchment to Outflow Node>	DA28 Imp
Out29	Infil29

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA28 Perv	1,554.103	12.10	0.28
Flow (From)	DA28 Imp	9,981.894	12.00	3.15
Flow (From)	Out29	11,123.006	12.00	2.97
Flow (In)	Bio28	22,659.003	12.00	6.28

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio28 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Bio28'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA28 Perv
<Catchment to Outflow Node>	DA28 Imp
Out29	Infil29

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA28 Perv	4,383.623	12.10	1.04
Flow (From)	DA28 Imp	15,834.496	12.00	4.87
Flow (From)	Out29	19,578.189	12.00	5.08
Flow (In)	Bio28	39,796.308	12.00	10.73

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio28 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Bio28'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA28 Perv
<Catchment to Outflow Node>	DA28 Imp
Out29	Infil29

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA28 Perv	12,186.895	12.10	3.05
Flow (From)	DA28 Imp	27,899.868	12.00	8.39
Flow (From)	Out29	38,278.609	12.00	9.83
Flow (In)	Bio28	78,365.372	12.00	20.69

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio35
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	103.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	18.25	104.88	7,215.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.00	1.05	0.00	0.00
Infiltration...	18.25	0.00	0.00	0.00
Pond Outflow...	18.25	0.38	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	29,095.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	7,655.000	Forward
Pond Outflow...	0.000	Reverse	20,191.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	29,095.000 ft³
Volume (Total Out ICPM)	27,846.000 ft³
Volume (Ending)	1,247.000 ft³
Elevation (Ending)	103.69 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio35
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	103.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	15.55	105.89	13,428.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.75	2.91	0.00	0.00
Infiltration...	15.55	0.00	0.00	0.00
Pond Outflow...	15.55	1.09	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	70,960.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	9,164.000	Forward
Pond Outflow...	0.000	Reverse	59,426.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	70,960.000 ft³
Volume (Total Out ICPM)	68,590.000 ft³
Volume (Ending)	2,295.000 ft³
Elevation (Ending)	103.93 ft
Difference	75.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio35
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	103.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.70	106.64	19,024.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.05	12.33	0.00	0.00
Infiltration...	12.70	0.00	0.00	0.00
Pond Outflow...	12.70	8.83	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	151,101.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	9,840.000	Forward
Pond Outflow...	0.000	Reverse	138,840.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	151,101.000 ft³
Volume (Total Out ICPM)	148,680.000 ft³
Volume (Ending)	2,436.000 ft³
Elevation (Ending)	103.96 ft
Difference	-15.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio36 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.017	0.00	0.00	0.00
98.25	0.00	196.301	0.019	0.00	0.00	2.18
98.50	0.00	415.808	0.021	0.00	0.00	4.62
98.75	0.00	659.817	0.024	0.00	0.00	7.33
99.00	0.38	929.626	0.026	0.00	0.38	10.70
99.25	1.06	1,224.259	0.028	0.00	1.06	14.66
99.50	1.95	1,542.487	0.030	0.00	1.95	19.09
99.75	3.00	1,885.217	0.033	0.00	3.00	23.95
100.00	4.19	2,253.359	0.035	0.00	4.19	29.23
100.25	5.51	2,648.631	0.038	0.00	5.51	34.94
100.50	6.95	3,072.830	0.040	0.00	6.95	41.09
100.75	8.49	3,526.976	0.043	0.00	8.49	47.67
101.00	10.13	4,012.091	0.046	0.00	10.13	54.70
101.25	11.86	4,532.251	0.050	0.00	11.86	62.22
101.50	13.68	5,091.810	0.053	0.00	13.68	70.26
101.75	15.59	5,692.207	0.057	0.00	15.59	78.84
102.00	17.58	6,334.880	0.061	0.00	17.58	87.96

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Bio36 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.58 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.81 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	99.46 ft
Volume (Peak)	1,492.434 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	8,190.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,530.000 ft³
Volume (Retained)	660.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio36 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.74 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.47 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	99.85 ft
Volume (Peak)	2,026.868 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	14,768.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	14,108.000 ft³
Volume (Retained)	660.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio36 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.61 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	7.20 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	100.54 ft
Volume (Peak)	3,146.786 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	29,827.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	29,167.000 ft³
Volume (Retained)	660.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio36 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Bio36'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA36 Perv
<Catchment to Outflow Node>	DA36 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA36 Perv	2,326.155	12.00	0.77
Flow (From)	DA36 Imp	5,863.631	12.00	1.80
Flow (In)	Bio36	8,189.786	12.00	2.58

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio36 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Bio36'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA36 Perv
<Catchment to Outflow Node>	DA36 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA36 Perv	5,578.680	12.00	1.97
Flow (From)	DA36 Imp	9,188.828	12.00	2.78
Flow (In)	Bio36	14,767.508	12.00	4.74

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio36 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Bio36'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA36 Perv
<Catchment to Outflow Node>	DA36 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA36 Perv	13,793.519	12.00	4.84
Flow (From)	DA36 Imp	16,033.110	12.00	4.76
Flow (In)	Bio36	29,826.629	12.00	9.61

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio45
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	96.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

Maximum Storage		
Time to Peak (hours)	Elevation (ft)	Volume (ft³)
13.65	98.31	24,682.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	10.68	0.00	0.00
Pond Outflow...	13.70	2.03	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	72,240.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	64,282.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	72,240.000 ft³
Volume (Total Out ICPM)	64,282.000 ft³
Volume (Ending)	7,956.000 ft³
Elevation (Ending)	97.12 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio45
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	96.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.55	99.12	37,337.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	20.63	0.00	0.00
Pond Outflow...	12.55	8.48	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	144,812.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	136,769.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	144,812.000 ft³
Volume (Total Out ICPM)	136,769.000 ft³
Volume (Ending)	8,041.000 ft³
Elevation (Ending)	97.13 ft
Difference	1.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio45
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	96.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	99.98	51,844.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	45.10	0.00	0.00
Pond Outflow...	12.15	31.84	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	306,011.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	297,899.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	306,011.000 ft³
Volume (Total Out ICPM)	297,899.000 ft³
Volume (Ending)	8,117.000 ft³
Elevation (Ending)	97.13 ft
Difference	-5.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio51 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
102.00	0.00	0.000	0.060	0.00	0.00	0.00
102.25	0.00	678.996	0.065	0.00	0.00	7.54
102.50	0.00	1,410.488	0.070	0.00	0.00	15.67
102.75	0.00	2,196.429	0.075	0.00	0.00	24.40
103.00	0.00	3,038.775	0.080	0.00	0.00	33.76
103.25	0.56	3,928.393	0.083	0.00	0.56	44.21
103.50	1.59	4,855.357	0.087	0.00	1.59	55.54
103.75	2.92	5,820.437	0.090	0.00	2.92	67.59
104.00	4.50	6,824.400	0.094	0.00	4.50	80.33
104.25	6.29	7,869.127	0.098	0.00	6.29	93.72
104.50	8.27	8,956.558	0.102	0.00	8.27	107.78
104.75	10.42	10,087.550	0.106	0.00	10.42	122.50
105.00	12.73	11,262.957	0.110	0.00	12.73	137.87
105.25	15.19	12,499.645	0.117	0.00	15.19	154.07
105.50	17.79	13,815.549	0.125	0.00	17.79	171.29
105.75	20.52	15,213.129	0.132	0.00	20.52	189.56
106.00	23.38	16,694.842	0.140	0.00	23.38	208.88
106.25	26.37	18,246.354	0.145	0.00	26.37	229.10
106.50	29.47	19,852.316	0.150	0.00	29.47	250.05

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Bio51 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.28 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.10 ft³/s	Time to Peak (Flow, Outlet)	13.75 hours

Elevation (Water Surface, Peak)	103.04 ft
Volume (Peak)	3,191.787 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,981.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	1,942.000 ft³
Volume (Retained)	3,039.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio51 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.48 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.83 ft³/s	Time to Peak (Flow, Outlet)	12.30 hours

Elevation (Water Surface, Peak)	103.32 ft
Volume (Peak)	4,166.897 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,645.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	6,606.000 ft³
Volume (Retained)	3,039.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio51 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.34 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.45 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	103.83 ft
Volume (Peak)	6,149.724 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	20,928.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	17,889.000 ft³
Volume (Retained)	3,039.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio51 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Bio51'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA51 Imp
<Catchment to Outflow Node>	DA51 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA51 Imp	3,382.141	12.00	1.05
Flow (From)	DA51 Perv	1,598.731	12.10	0.33
Flow (In)	Bio51	4,980.873	12.00	1.28

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio51 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Bio51'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA51 Imp
<Catchment to Outflow Node>	DA51 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA51 Imp	5,365.330	12.00	1.62
Flow (From)	DA51 Perv	4,279.735	12.05	1.08
Flow (In)	Bio51	9,645.065	12.00	2.48

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio51 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Bio51'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA51 Imp
<Catchment to Outflow Node>	DA51 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA51 Imp	9,453.726	12.00	2.80
Flow (From)	DA51 Perv	11,473.967	12.05	3.06
Flow (In)	Bio51	20,927.694	12.00	5.34

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio52
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.10	0.00	0.000	0.029	0.00	0.00	0.00
100.35	0.00	331.360	0.032	0.02	0.02	3.70
100.60	0.00	694.809	0.035	0.02	0.02	7.74
100.83	0.00	1,058.797	0.038	0.02	0.02	11.78
100.85	0.01	1,091.829	0.038	0.02	0.03	12.16
101.10	0.42	1,524.037	0.041	0.02	0.44	17.38
101.35	1.12	1,994.195	0.045	0.02	1.15	23.31
101.60	2.03	2,504.218	0.049	0.02	2.05	29.88
101.85	3.09	3,055.727	0.053	0.03	3.12	37.07
102.10	4.29	3,649.884	0.056	0.03	4.32	44.88
102.35	5.62	4,283.924	0.060	0.03	5.65	53.25
102.60	7.06	4,958.063	0.064	0.03	7.10	62.19
102.85	8.61	5,673.532	0.068	0.03	8.65	71.69
103.10	10.26	6,431.400	0.072	0.04	10.30	81.76
103.35	12.00	7,231.389	0.075	0.04	12.04	92.39
103.60	13.83	8,074.265	0.079	0.04	13.87	103.58
103.85	15.74	8,961.150	0.083	0.04	15.79	115.36
104.10	17.74	9,894.413	0.088	0.04	17.78	127.72
104.35	19.81	10,887.042	0.094	0.05	19.86	140.83
104.60	21.96	11,943.806	0.100	0.05	22.01	154.72
104.85	24.18	13,066.714	0.106	0.05	24.23	169.42
105.00	25.55	13,773.042	0.110	0.06	25.60	178.64

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio52 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.81 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.02 ft³/s	Time to Peak (Infiltration)	12.05 hours
Flow (Peak Outlet)	1.71 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	101.51 ft
Volume (Peak)	2,321.683 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,559.000 ft³
Volume (Total Infiltration)	2,322.000 ft³
Volume (Total Outlet Outflow)	7,197.000 ft³
Volume (Retained)	39.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio52 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.05 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.05 hours
Flow (Peak Outlet)	3.28 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	101.89 ft
Volume (Peak)	3,147.775 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	17,106.000 ft³
Volume (Total Infiltration)	2,475.000 ft³
Volume (Total Outlet Outflow)	14,588.000 ft³
Volume (Retained)	40.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio52 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	10.19 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.05 hours
Flow (Peak Outlet)	6.97 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	102.58 ft
Volume (Peak)	4,915.021 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	34,657.000 ft³
Volume (Total Infiltration)	2,649.000 ft³
Volume (Total Outlet Outflow)	31,964.000 ft³
Volume (Retained)	42.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio52 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Bio52'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA52 Perv
<Catchment to Outflow Node>	DA52 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA52 Perv	1,573.148	12.05	0.36
Flow (From)	DA52 Imp	7,986.190	12.00	2.52
Flow (In)	Bio52	9,559.338	12.00	2.81

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio52 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Bio52'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA52 Perv
<Catchment to Outflow Node>	DA52 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA52 Perv	4,437.346	12.05	1.26
Flow (From)	DA52 Imp	12,668.301	12.00	3.90
Flow (In)	Bio52	17,105.647	12.00	5.05

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio52 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Bio52'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA52 Perv
<Catchment to Outflow Node>	DA52 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA52 Perv	12,336.335	12.05	3.65
Flow (From)	DA52 Imp	22,320.732	12.00	6.72
Flow (In)	Bio52	34,657.068	12.00	10.19

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio53 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.50	0.00	0.000	0.014	0.00	0.00	0.00
104.75	0.00	181.786	0.020	0.00	0.00	2.02
105.00	0.00	428.912	0.026	0.00	0.00	4.77
105.25	0.00	729.406	0.029	0.00	0.00	8.10
105.45	0.00	995.673	0.032	0.00	0.00	11.06
105.50	0.03	1,065.970	0.033	0.00	0.03	11.88
105.75	0.49	1,440.649	0.036	0.00	0.49	16.50
106.00	1.22	1,855.488	0.040	0.00	1.22	21.84
106.25	2.15	2,316.021	0.045	0.00	2.15	27.88
106.50	3.23	2,828.254	0.049	0.00	3.23	34.65
106.75	4.45	3,394.937	0.055	0.00	4.45	42.17
107.00	5.79	4,018.820	0.060	0.00	5.79	50.44
107.25	7.24	4,691.690	0.064	0.00	7.24	59.37
107.50	8.81	5,404.260	0.067	0.00	8.81	68.85
107.75	10.46	6,157.668	0.071	0.00	10.46	78.88
108.00	12.22	6,953.051	0.075	0.00	12.22	89.47
108.25	14.06	7,786.908	0.078	0.00	14.06	100.58
108.50	15.98	8,655.451	0.081	0.00	15.98	112.15
108.75	17.98	9,559.387	0.085	0.00	17.98	124.20
109.00	20.07	10,499.421	0.088	0.00	20.07	136.73

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Bio53 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.24 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.68 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	105.81 ft
Volume (Peak)	1,542.331 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,133.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,138.000 ft³
Volume (Retained)	996.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio53 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.25 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.45 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	106.06 ft
Volume (Peak)	1,961.585 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,499.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	6,503.000 ft³
Volume (Retained)	996.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio53 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.57 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.12 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	106.48 ft
Volume (Peak)	2,774.921 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	15,346.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	14,351.000 ft³
Volume (Retained)	996.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio53 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Bio53'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA53 Perv
<Catchment to Outflow Node>	DA53 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA53 Perv	709.742	12.05	0.16
Flow (From)	DA53 Imp	3,423.438	12.00	1.10
Flow (In)	Bio53	4,133.180	12.00	1.24

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio53 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Bio53'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA53 Perv
<Catchment to Outflow Node>	DA53 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA53 Perv	2,002.016	12.05	0.57
Flow (From)	DA53 Imp	5,496.882	12.00	1.72
Flow (In)	Bio53	7,498.897	12.00	2.25

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Bio53 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Bio53'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA53 Perv
<Catchment to Outflow Node>	DA53 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA53 Perv	5,565.953	12.05	1.65
Flow (From)	DA53 Imp	9,780.516	12.00	2.98
Flow (In)	Bio53	15,346.470	12.00	4.57

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio58
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	106.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.65	107.88	11,297.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	6.29	0.00	0.00
Pond Outflow...	12.65	0.94	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	21,892.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	16,477.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	21,892.000 ft³
Volume (Total Out ICPM)	16,477.000 ft³
Volume (Ending)	5,413.000 ft³
Elevation (Ending)	107.15 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio58
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	106.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.40	108.57	17,702.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	10.87	0.00	0.00
Pond Outflow...	12.40	2.54	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	38,955.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	33,535.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	38,955.000 ft³
Volume (Total Out ICPM)	33,535.000 ft³
Volume (Ending)	5,418.000 ft³
Elevation (Ending)	107.15 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio58
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	106.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.20	109.52	27,580.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	20.85	0.00	0.00
Pond Outflow...	12.20	8.52	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	77,182.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	71,756.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	77,182.000 ft³
Volume (Total Out ICPM)	71,756.000 ft³
Volume (Ending)	5,423.000 ft³
Elevation (Ending)	107.15 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: EX. BASIN 6 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
89.00	0.00	0.000	1.300	0.00	0.00	0.00
89.25	0.00	14,319.122	1.330	0.00	0.00	159.10
89.50	0.00	28,964.943	1.360	0.00	0.00	321.83
89.75	0.00	43,937.518	1.390	0.00	0.00	488.19
90.00	0.00	59,236.793	1.420	0.00	0.00	658.19
90.25	0.08	74,889.639	1.455	0.00	0.08	832.19
90.50	0.14	90,923.636	1.490	0.00	0.14	1,010.41
90.75	0.19	107,312.011	1.520	0.00	0.19	1,192.54
91.00	0.22	124,027.087	1.550	0.00	0.22	1,378.30
91.25	0.25	141,100.242	1.586	0.00	0.25	1,568.03
91.35	0.26	148,038.528	1.600	0.00	0.26	1,645.13
91.50	0.74	158,558.201	1.620	0.00	0.74	1,762.50
91.75	2.33	176,362.360	1.650	0.00	2.33	1,961.91
92.00	4.52	194,493.220	1.680	0.00	4.52	2,165.55
92.25	7.17	212,977.699	1.715	0.00	7.17	2,373.59
92.50	10.23	231,843.327	1.750	0.00	10.23	2,586.27
92.75	13.63	251,090.157	1.785	0.00	13.63	2,803.53
93.00	17.36	270,718.136	1.820	0.00	17.36	3,025.34
93.25	21.37	290,727.312	1.855	0.00	21.37	3,251.67
93.50	25.65	311,117.638	1.890	0.00	25.65	3,482.52
93.75	30.19	331,916.034	1.930	0.00	30.19	3,718.15
94.00	34.98	353,150.029	1.970	0.00	34.98	3,958.87
94.25	39.99	374,792.795	2.005	0.00	39.99	4,204.35
94.50	45.22	396,816.711	2.040	0.00	45.22	4,454.29
94.75	50.66	419,221.814	2.075	0.00	50.66	4,708.68
95.00	56.31	442,008.068	2.110	0.00	56.31	4,967.51

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: EX. BASIN 6 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	32.33 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.39 ft³/s	Time to Peak (Flow, Outlet)	24.05 hours

Elevation (Water Surface, Peak)	91.39 ft
Volume (Peak)	150,741.868 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	163,942.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	32,896.000 ft³
Volume (Retained)	130,958.000 ft³
Volume (Unrouted)	-89.000 ft³
Error (Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: EX. BASIN 6 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	53.56 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.79 ft³/s	Time to Peak (Flow, Outlet)	14.55 hours

Elevation (Water Surface, Peak)	91.92 ft
Volume (Peak)	188,432.760 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	287,860.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	148,308.000 ft³
Volume (Retained)	139,491.000 ft³
Volume (Unrouted)	-61.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: EX. BASIN 6 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	103.02 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	21.64 ft³/s	Time to Peak (Flow, Outlet)	12.85 hours

Elevation (Water Surface, Peak)	93.27 ft
Volume (Peak)	291,985.265 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	562,337.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	421,575.000 ft³
Volume (Retained)	140,712.000 ft³
Volume (Unrouted)	-49.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: EX. BASIN 6 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'EX. BASIN 6'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-6 Imp (Plainsboro)
Out25	Bio25
<Catchment to Outflow Node>	Future Imp Road-Basin 6 (S Brunswick)
<Catchment to Outflow Node>	PDA-6 PER (Plainsboro)
Out17	UGB17
<Catchment to Outflow Node>	Ex DA-6 Perv (S Brunswick)

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	PDA-6 Imp (Plainsboro)	146,683.022	12.10	30.42
Flow (From)	Out25	2,792.370	24.00	0.05
Flow (From)	Future Imp Road-Basin 6 (S Brunswick)	3,448.893	12.00	1.06
Flow (From)	PDA-6 PER (Plainsboro)	3,550.561	12.10	0.72
Flow (From)	Out17	1,992.930	17.30	0.06
Flow (From)	Ex DA-6 Perv (S Brunswick)	5,474.651	12.10	0.82
Flow (In)	EX. BASIN 6	163,942.426	12.10	32.33

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: EX. BASIN 6 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'EX. BASIN 6'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-6 Imp (Plainsboro)
Out25	Bio25
<Catchment to Outflow Node>	Future Imp Road-Basin 6 (S Brunswick)
<Catchment to Outflow Node>	PDA-6 PER (Plainsboro)
Out17	UGB17
<Catchment to Outflow Node>	Ex DA-6 Perv (S Brunswick)

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	PDA-6 Imp (Plainsboro)	229,875.744	12.10	46.84
Flow (From)	Out25	18,873.805	16.70	0.34
Flow (From)	Future Imp Road-Basin 6 (S Brunswick)	5,404.779	12.00	1.63
Flow (From)	PDA-6 PER (Plainsboro)	8,870.097	12.10	2.05
Flow (From)	Out17	7,919.164	13.05	0.38
Flow (From)	Ex DA-6 Perv (S Brunswick)	16,916.438	12.10	3.92
Flow (In)	EX. BASIN 6	287,860.027	12.10	53.56

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: EX. BASIN 6 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'EX. BASIN 6'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-6 Imp (Plainsboro)
Out25	Bio25
<Catchment to Outflow Node>	Future Imp Road-Basin 6 (S Brunswick)
<Catchment to Outflow Node>	PDA-6 PER (Plainsboro)
Out17	UGB17
<Catchment to Outflow Node>	Ex DA-6 Perv (S Brunswick)

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-6 Imp (Plainsboro)	401,109.639	12.10	80.45
Flow (From)	Out25	58,795.536	12.60	3.68
Flow (From)	Future Imp Road-Basin 6 (S Brunswick)	9,430.586	12.00	2.80
Flow (From)	PDA-6 PER (Plainsboro)	22,617.814	12.10	5.40
Flow (From)	Out17	20,452.627	12.20	2.02
Flow (From)	Ex DA-6 Perv (S Brunswick)	49,930.532	12.05	12.82
Flow (In)	EX. BASIN 6	562,336.734	12.10	103.02

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Infil29
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
93.00	0.00	0.000	0.008	0.00	0.00	0.00
93.10	0.00	36.912	0.009	0.00	0.00	0.41
93.20	0.00	78.110	0.010	0.00	0.00	0.87
93.30	0.00	123.830	0.011	0.00	0.00	1.38
93.40	0.00	174.305	0.012	0.00	0.00	1.94
93.50	0.00	229.773	0.013	0.00	0.00	2.55
93.60	0.00	290.467	0.015	0.00	0.00	3.23
93.70	0.00	356.624	0.016	0.00	0.00	3.96
93.80	0.00	428.479	0.017	0.00	0.00	4.76
93.90	0.00	506.268	0.019	0.00	0.00	5.63
94.00	0.00	590.225	0.020	0.00	0.00	6.56
94.10	0.00	679.673	0.021	0.00	0.00	7.55
94.20	0.00	773.860	0.022	0.00	0.00	8.60
94.30	0.00	872.906	0.023	0.00	0.00	9.70
94.40	0.14	976.936	0.024	0.00	0.14	11.00
94.50	0.40	1,086.070	0.026	0.00	0.40	12.47
94.60	0.74	1,200.432	0.027	0.00	0.74	14.08
94.70	1.14	1,320.143	0.028	0.00	1.14	15.81
94.80	1.59	1,445.325	0.029	0.00	1.59	17.65
94.90	2.09	1,576.102	0.031	0.00	2.09	19.60
95.00	2.64	1,712.595	0.032	0.00	2.64	21.66
95.10	3.22	1,854.779	0.033	0.00	3.22	23.83
95.20	3.84	2,002.620	0.035	0.00	3.84	26.09
95.30	4.50	2,156.228	0.036	0.00	4.50	28.46
95.40	5.19	2,315.713	0.037	0.00	5.19	30.92
95.50	5.92	2,481.187	0.039	0.00	5.92	33.48
95.60	6.67	2,652.759	0.040	0.00	6.67	36.15
95.70	7.45	2,830.540	0.042	0.00	7.45	38.90
95.80	8.27	3,014.640	0.043	0.00	8.27	41.76

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Infil29 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
95.90	9.11	3,205.170	0.044	0.00	9.11	44.72
96.00	10.48	3,402.239	0.046	0.00	10.48	48.28
96.10	12.28	3,605.979	0.048	0.00	12.28	52.35
96.20	14.39	3,816.521	0.049	0.00	14.39	56.79
96.30	16.74	4,033.976	0.051	0.00	16.74	61.56
96.40	18.63	4,258.457	0.052	0.00	18.63	65.95
96.50	20.09	4,490.076	0.054	0.00	20.09	69.98

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Infil29 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.75 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.97 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	95.06 ft
Volume (Peak)	1,794.120 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,996.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	11,123.000 ft³
Volume (Retained)	873.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Infil29 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.30 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	5.08 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	95.38 ft
Volume (Peak)	2,290.393 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	20,451.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	19,578.000 ft³
Volume (Retained)	873.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Infil29 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	11.88 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	9.83 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	95.95 ft
Volume (Peak)	3,308.123 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	39,152.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	38,279.000 ft³
Volume (Retained)	873.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Infil29 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Infil29'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA29 Perv
<Catchment to Outflow Node>	DA29 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA29 Perv	978.346	12.05	0.23
Flow (From)	DA29 Imp	11,017.566	12.00	3.55
Flow (In)	Infil29	11,995.912	12.00	3.75

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Infil29 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Infil29'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA29 Perv
<Catchment to Outflow Node>	DA29 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA29 Perv	2,759.684	12.05	0.79
Flow (From)	DA29 Imp	17,691.411	12.00	5.53
Flow (In)	Infil29	20,451.096	12.00	6.30

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Infil29 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Infil29'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA29 Perv
<Catchment to Outflow Node>	DA29 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA29 Perv	7,672.385	12.00	2.31
Flow (From)	DA29 Imp	31,479.130	12.00	9.57
Flow (In)	Infil29	39,151.515	12.00	11.88

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Infil30
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	91.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

Maximum Storage		
Time to Peak (hours)	Elevation (ft)	Volume (ft³)
14.60	93.27	57,304.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	14.12	0.00	0.00
Pond Outflow...	14.60	3.74	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	150,073.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	120,050.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	150,073.000 ft³
Volume (Total Out ICPM)	120,050.000 ft³
Volume (Ending)	30,017.000 ft³
Elevation (Ending)	92.43 ft
Difference	5.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Infil30
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	91.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.95	94.01	82,781.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	31.05	0.00	0.00
Pond Outflow...	12.95	15.78	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	296,933.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	265,930.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	296,933.000 ft³
Volume (Total Out ICPM)	265,930.000 ft³
Volume (Ending)	30,990.000 ft³
Elevation (Ending)	92.46 ft
Difference	13.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Infil30
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	91.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.35	95.29	129,986.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.05	87.27	0.00	0.00
Pond Outflow...	12.35	60.06	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	622,606.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	590,904.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	622,606.000 ft³
Volume (Total Out ICPM)	590,904.000 ft³
Volume (Ending)	31,704.000 ft³
Elevation (Ending)	92.49 ft
Difference	-2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Infil8
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
109.50	0.00	0.000	0.095	0.00	0.00	0.00
109.60	0.00	420.147	0.098	0.03	0.03	4.70
109.70	0.00	853.074	0.101	0.03	0.03	9.51
109.76	0.00	1,119.045	0.103	0.03	0.03	12.46
109.80	0.00	1,298.973	0.104	0.03	0.04	14.47
109.90	0.06	1,758.037	0.107	0.03	0.09	19.63
110.00	0.17	2,230.455	0.110	0.03	0.20	24.99
110.10	0.33	2,713.802	0.112	0.03	0.36	30.52
110.20	0.54	3,205.569	0.114	0.03	0.57	36.19
110.30	0.78	3,705.830	0.116	0.04	0.81	41.99
110.40	1.05	4,214.658	0.118	0.04	1.09	47.92
110.50	1.34	4,732.125	0.120	0.04	1.38	53.96
110.60	1.71	5,258.304	0.122	0.04	1.74	60.17
110.70	1.90	5,793.268	0.124	0.04	1.94	66.31
110.75	1.99	6,064.067	0.125	0.04	2.03	69.40
110.80	2.12	6,337.089	0.126	0.04	2.16	72.57
110.90	2.49	6,889.840	0.128	0.04	2.53	79.09
111.00	2.94	7,451.595	0.130	0.04	2.98	85.78
111.10	3.45	8,024.092	0.133	0.04	3.49	92.65
111.20	4.01	8,609.116	0.136	0.04	4.06	99.71
111.30	4.62	9,206.801	0.139	0.04	4.66	106.96
111.40	5.26	9,817.283	0.142	0.04	5.30	114.39
111.48	5.80	10,314.973	0.144	0.04	5.85	120.46
111.50	6.00	10,440.697	0.145	0.04	6.05	122.05
111.60	7.53	11,077.179	0.148	0.04	7.57	130.65
111.70	9.56	11,726.865	0.151	0.05	9.61	139.91
111.80	11.97	12,389.890	0.154	0.05	12.01	149.68
111.90	14.68	13,066.389	0.157	0.05	14.73	159.91

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Infil8
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
112.00	17.66	13,756.499	0.160	0.05	17.71	170.56

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Infil8 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.51 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.50 hours
Flow (Peak Outlet)	0.17 ft³/s	Time to Peak (Flow, Outlet)	12.50 hours

Elevation (Water Surface, Peak)	110.00 ft
Volume (Peak)	2,229.435 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,873.000 ft³
Volume (Total Infiltration)	3,013.000 ft³
Volume (Total Outlet Outflow)	1,855.000 ft³
Volume (Retained)	5.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Infil8 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.59 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	0.60 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	110.23 ft
Volume (Peak)	3,346.396 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	8,263.000 ft³
Volume (Total Infiltration)	3,420.000 ft³
Volume (Total Outlet Outflow)	4,836.000 ft³
Volume (Retained)	7.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Infil8 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.02 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.05 hours
Flow (Peak Outlet)	1.76 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	110.63 ft
Volume (Peak)	5,400.655 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	15,874.000 ft³
Volume (Total Infiltration)	3,852.000 ft³
Volume (Total Outlet Outflow)	12,011.000 ft³
Volume (Retained)	10.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Infil8 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'Infil8'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA8 Perv
<Catchment to Outflow Node>	PDA8 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA8 Perv	503.960	12.00	0.16
Flow (From)	PDA8 Imp	4,369.005	12.00	1.34
Flow (In)	Infil8	4,872.964	12.00	1.51

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Infil8 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'Infil8'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA8 Perv
<Catchment to Outflow Node>	PDA8 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA8 Perv	1,416.601	12.00	0.53
Flow (From)	PDA8 Imp	6,846.606	12.00	2.07
Flow (In)	Infil8	8,263.207	12.00	2.59

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: Infil8 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'Infil8'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA8 Perv
<Catchment to Outflow Node>	PDA8 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA8 Perv	3,927.658	12.00	1.47
Flow (From)	PDA8 Imp	11,946.276	12.00	3.55
Flow (In)	Infil8	15,873.934	12.00	5.02

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB10 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
106.00	0.00	0.000	0.000	0.00	0.00	0.00
106.25	0.00	308.473	0.000	0.00	0.00	3.43
106.50	0.00	623.315	0.000	0.00	0.00	6.93
106.75	0.00	1,276.719	0.000	0.00	0.00	14.19
107.00	0.00	1,927.904	0.000	0.00	0.00	21.42
107.25	0.56	2,571.755	0.000	0.00	0.56	29.14
107.50	1.59	3,206.879	0.000	0.00	1.59	37.22
107.75	2.92	3,827.883	0.000	0.00	2.92	45.45
108.00	4.50	4,432.649	0.000	0.00	4.50	53.75
108.25	6.29	5,012.490	0.000	0.00	6.29	61.98
108.50	8.27	5,561.117	0.000	0.00	8.27	70.06
108.75	10.42	6,052.483	0.000	0.00	10.42	77.67
109.00	12.73	6,466.727	0.000	0.00	12.73	84.58
109.25	15.19	6,858.120	0.000	0.00	15.19	91.39
109.50	17.79	7,256.458	0.000	0.00	17.79	98.42

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB10 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.93 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.84 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	107.55 ft
Volume (Peak)	3,322.560 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,542.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,614.000 ft³
Volume (Retained)	1,928.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB10 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.76 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.22 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	107.80 ft
Volume (Peak)	3,942.882 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	15,531.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	13,603.000 ft³
Volume (Retained)	1,928.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB10 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.69 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	6.39 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	108.26 ft
Volume (Peak)	5,040.483 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	28,444.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	26,517.000 ft³
Volume (Retained)	1,928.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB10 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB10'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA10 Imp
<Catchment to Outflow Node>	DA10 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA10 Imp	9,082.399	12.00	2.80
Flow (From)	DA10 Perv	459.856	12.00	0.13
Flow (In)	UGB10	9,542.256	12.00	2.93

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB10 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB10'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA10 Imp
<Catchment to Outflow Node>	DA10 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA10 Imp	14,233.357	12.00	4.30
Flow (From)	DA10 Perv	1,297.692	12.00	0.46
Flow (In)	UGB10	15,531.049	12.00	4.76

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB10 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB10'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA10 Imp
<Catchment to Outflow Node>	DA10 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA10 Imp	24,835.514	12.00	7.38
Flow (From)	DA10 Perv	3,608.956	12.00	1.31
Flow (In)	UGB10	28,444.470	12.00	8.69

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB11
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
84.08	0.00	0.000	0.027	0.00	0.00	0.00
84.33	0.00	117.919	0.028	0.03	0.03	1.34
84.58	0.00	239.818	0.028	0.03	0.03	2.69
84.83	0.00	366.083	0.029	0.03	0.03	4.10
85.01	0.00	459.546	0.030	0.03	0.03	5.14
85.08	0.11	496.425	0.030	0.03	0.14	5.66
85.25	0.71	660.392	0.031	0.03	0.74	8.07
85.33	1.36	736.952	0.031	0.03	1.39	9.58
85.58	4.86	972.430	0.032	0.03	4.89	15.69
85.83	9.53	1,197.642	0.033	0.03	9.57	22.87
86.08	10.04	1,408.069	0.034	0.03	10.07	25.72
86.33	17.56	1,584.220	0.036	0.04	17.59	35.19
86.58	25.47	1,743.277	0.037	0.04	25.51	44.88
86.83	33.98	1,904.925	0.038	0.04	34.01	55.18
86.91	36.95	1,959.714	0.038	0.04	36.98	58.76

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB11 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.66 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.00 hours
Flow (Peak Outlet)	3.40 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	85.48 ft
Volume (Peak)	875.118 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	30,925.000 ft³
Volume (Total Infiltration)	3,261.000 ft³
Volume (Total Outlet Outflow)	27,664.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB11 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.24 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.00 hours
Flow (Peak Outlet)	6.95 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	85.69 ft
Volume (Peak)	1,074.789 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	56,509.000 ft³
Volume (Total Infiltration)	3,573.000 ft³
Volume (Total Outlet Outflow)	52,936.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB11 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	15.96 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.00 hours
Flow (Peak Outlet)	16.71 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	86.30 ft
Volume (Peak)	1,565.830 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	113,802.000 ft³
Volume (Total Infiltration)	3,886.000 ft³
Volume (Total Outlet Outflow)	109,915.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB11 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB11'

Upstream Link	Upstream Node
Out15	UGB15
<Catchment to Outflow Node>	DA11 Perv
<Catchment to Outflow Node>	DA11 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out15	24,055.656	12.25	2.01
Flow (From)	DA11 Perv	344.907	12.00	0.10
Flow (From)	DA11 Imp	6,524.671	12.00	2.08
Flow (In)	UGB11	30,925.234	12.00	3.66

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB11 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB11'

Upstream Link	Upstream Node
Out15	UGB15
<Catchment to Outflow Node>	DA11 Perv
<Catchment to Outflow Node>	DA11 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out15	45,058.406	12.15	4.59
Flow (From)	DA11 Perv	973.358	12.00	0.34
Flow (From)	DA11 Imp	10,477.296	12.00	3.24
Flow (In)	UGB11	56,509.060	12.00	7.24

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB11 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB11'

Upstream Link	Upstream Node
Out15	UGB15
<Catchment to Outflow Node>	DA11 Perv
<Catchment to Outflow Node>	DA11 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out15	92,451.804	12.10	11.55
Flow (From)	DA11 Perv	2,707.024	12.00	0.97
Flow (From)	DA11 Imp	18,643.109	12.00	5.61
Flow (In)	UGB11	113,801.937	12.00	15.96

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB13
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.00	87.67	790.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	1.99	0.00	0.00
Pond Outflow...	12.00	1.66	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	6,853.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	6,436.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	6,853.000 ft³
Volume (Total Out ICPM)	6,436.000 ft³
Volume (Ending)	413.000 ft³
Elevation (Ending)	87.00 ft
Difference	4.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB13
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.00	87.94	938.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	2.99	0.00	0.00
Pond Outflow...	12.00	2.59	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	11,569.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	11,153.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	11,569.000 ft³
Volume (Total Out ICPM)	11,153.000 ft³
Volume (Ending)	413.000 ft³
Elevation (Ending)	87.00 ft
Difference	3.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB13
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.00	88.62	1,306.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	6.41	0.00	0.00
Pond Outflow...	12.00	5.62	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	21,596.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	21,172.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	21,596.000 ft³
Volume (Total Out ICPM)	21,172.000 ft³
Volume (Ending)	413.000 ft³
Elevation (Ending)	87.00 ft
Difference	12.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB14
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.05	87.93	795.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	1.17	0.00	0.00
Pond Outflow...	12.00	0.81	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	3,665.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	3,267.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	3,665.000 ft³
Volume (Total Out ICPM)	3,267.000 ft³
Volume (Ending)	401.000 ft³
Elevation (Ending)	87.23 ft
Difference	-3.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB14
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.05	88.40	1,054.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	1.90	0.00	0.00
Pond Outflow...	12.05	1.13	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	6,048.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	5,649.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	6,048.000 ft³
Volume (Total Out ICPM)	5,649.000 ft³
Volume (Ending)	401.000 ft³
Elevation (Ending)	87.23 ft
Difference	-2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB14
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.05	88.75	1,245.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	3.43	0.00	0.00
Pond Outflow...	12.00	3.03	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	11,140.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	10,747.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	11,140.000 ft³
Volume (Total Out ICPM)	10,747.000 ft³
Volume (Ending)	401.000 ft³
Elevation (Ending)	87.23 ft
Difference	-9.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB15
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	92.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.25	93.15	5,234.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	4.23	0.00	0.00
Pond Outflow...	12.25	2.01	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	26,230.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	24,056.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	26,230.000 ft³
Volume (Total Out ICPM)	24,056.000 ft³
Volume (Ending)	2,174.000 ft³
Elevation (Ending)	92.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB15
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	92.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	93.54	7,468.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	8.07	0.00	0.00
Pond Outflow...	12.15	4.59	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	47,233.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	45,058.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	47,233.000 ft³
Volume (Total Out ICPM)	45,058.000 ft³
Volume (Ending)	2,174.000 ft³
Elevation (Ending)	92.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB15
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	92.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.10	94.32	11,566.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	17.30	0.00	0.00
Pond Outflow...	12.10	11.55	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	94,624.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	92,452.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	94,624.000 ft³
Volume (Total Out ICPM)	92,452.000 ft³
Volume (Ending)	2,174.000 ft³
Elevation (Ending)	92.63 ft
Difference	-2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB16
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.25	95.29	8,586.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	5.52	0.00	0.00
Pond Outflow...	12.25	1.22	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	18,083.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	14,999.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	18,083.000 ft³
Volume (Total Out ICPM)	14,999.000 ft³
Volume (Ending)	3,082.000 ft³
Elevation (Ending)	94.63 ft
Difference	1.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB16
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.20	95.77	12,326.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	9.36	0.00	0.00
Pond Outflow...	12.20	2.72	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	30,744.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	27,662.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	30,744.000 ft³
Volume (Total Out ICPM)	27,662.000 ft³
Volume (Ending)	3,082.000 ft³
Elevation (Ending)	94.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB16
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.10	96.73	18,940.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	17.85	0.00	0.00
Pond Outflow...	12.10	6.86	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	58,964.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	55,882.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	58,964.000 ft³
Volume (Total Out ICPM)	55,882.000 ft³
Volume (Ending)	3,082.000 ft³
Elevation (Ending)	94.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB17
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
110.50	0.00	0.000	0.000	0.00	0.00	0.00
110.75	0.00	1,168.548	0.000	0.00	0.00	12.98
111.00	0.00	2,350.871	0.000	0.00	0.00	26.12
111.25	0.00	4,850.926	0.000	0.00	0.00	53.90
111.50	0.00	7,330.736	0.000	0.00	0.00	81.45
111.75	0.38	9,769.092	0.000	0.00	0.38	108.92
112.00	1.06	12,161.358	0.000	0.00	1.06	136.19
112.25	1.95	14,485.207	0.000	0.00	1.95	162.90
112.50	3.00	16,733.176	0.000	0.00	3.00	188.92
112.75	4.19	18,869.975	0.000	0.00	4.19	213.86
113.00	5.51	20,871.780	0.000	0.00	5.51	237.42
113.25	6.95	22,635.077	0.000	0.00	6.95	258.45
113.50	8.49	24,082.744	0.000	0.00	8.49	276.07
113.75	10.13	25,426.780	0.000	0.00	10.13	292.64
114.00	11.86	26,785.167	0.000	0.00	11.86	309.47

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB17 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.99 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.06 ft³/s	Time to Peak (Flow, Outlet)	17.30 hours

Elevation (Water Surface, Peak)	111.54 ft
Volume (Peak)	7,746.400 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,324.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	1,993.000 ft³
Volume (Retained)	7,331.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB17 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.77 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.38 ft³/s	Time to Peak (Flow, Outlet)	13.05 hours

Elevation (Water Surface, Peak)	111.75 ft
Volume (Peak)	9,778.117 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	15,250.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,919.000 ft³
Volume (Retained)	7,331.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB17 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.51 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.02 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	112.27 ft
Volume (Peak)	14,640.903 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	27,783.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	20,453.000 ft³
Volume (Retained)	7,331.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB17 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB17'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA17 Imp
<Catchment to Outflow Node>	DA17 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA17 Imp	9,093.528	12.00	2.93
Flow (From)	DA17 Perv	230.136	12.00	0.06
Flow (In)	UGB17	9,323.665	12.00	2.99

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB17 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB17'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA17 Imp
<Catchment to Outflow Node>	DA17 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA17 Imp	14,600.658	12.00	4.56
Flow (From)	DA17 Perv	649.240	12.00	0.21
Flow (In)	UGB17	15,249.898	12.00	4.77

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB17 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB17'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA17 Imp
<Catchment to Outflow Node>	DA17 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA17 Imp	25,978.205	12.00	7.90
Flow (From)	DA17 Perv	1,805.157	12.00	0.61
Flow (In)	UGB17	27,783.362	12.00	8.51

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB18
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

Maximum Storage		
Time to Peak (hours)	Elevation (ft)	Volume (ft³)
12.15	96.46	2,139.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.05	4.73	26.25	0.00
Pond Outflow...	12.15	4.03	0.01	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	28,502.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	27,541.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	28,502.000 ft³
Volume (Total Out ICPM)	27,541.000 ft³
Volume (Ending)	968.000 ft³
Elevation (Ending)	95.24 ft
Difference	-6.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB18
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.10	96.95	2,577.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.05	10.61	26.75	0.00
Pond Outflow...	12.10	10.48	0.01	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	51,117.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	50,189.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	51,117.000 ft³
Volume (Total Out ICPM)	50,189.000 ft³
Volume (Ending)	968.000 ft³
Elevation (Ending)	95.24 ft
Difference	-40.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB18
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.05	97.58	3,045.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.05	25.02	27.25	0.00
Pond Outflow...	12.05	24.39	0.01	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	102,177.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	101,231.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	102,177.000 ft³
Volume (Total Out ICPM)	101,231.000 ft³
Volume (Ending)	968.000 ft³
Elevation (Ending)	95.24 ft
Difference	-21.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB19
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	96.52	1,681.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.05	2.99	0.00	0.00
Infiltration...	12.15	0.00	0.01	0.00
Pond Outflow...	12.25	2.76	26.25	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	21,665.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	2,938.000	Forward
Pond Outflow...	0.000	Reverse	19,142.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	21,666.000 ft³
Volume (Total Out ICPM)	22,080.000 ft³
Volume (Ending)	2.000 ft³
Elevation (Ending)	94.50 ft
Difference	-416.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	1.9 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB19
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.10	97.08	2,192.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.05	7.89	0.00	0.00
Infiltration...	12.10	0.00	0.01	0.00
Pond Outflow...	12.10	7.37	26.75	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	38,594.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	3,238.000	Forward
Pond Outflow...	0.000	Reverse	35,392.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	38,594.000 ft³
Volume (Total Out ICPM)	38,630.000 ft³
Volume (Ending)	2.000 ft³
Elevation (Ending)	94.50 ft
Difference	-38.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB19
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.10	97.80	2,756.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.05	18.32	0.00	0.00
Infiltration...	12.10	0.00	0.01	0.00
Pond Outflow...	12.05	17.61	27.25	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	75,952.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	3,582.000	Forward
Pond Outflow...	0.000	Reverse	72,430.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	75,952.000 ft³
Volume (Total Out ICPM)	76,012.000 ft³
Volume (Ending)	2.000 ft³
Elevation (Ending)	94.50 ft
Difference	-62.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB2
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	85.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.05	87.02	4,092.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	5.02	0.00	0.00
Pond Outflow...	12.05	3.70	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	17,655.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	15,446.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	17,655.000 ft³
Volume (Total Out ICPM)	15,446.000 ft³
Volume (Ending)	2,206.000 ft³
Elevation (Ending)	86.25 ft
Difference	4.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB2
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	85.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.00	87.28	4,572.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	8.62	0.00	0.00
Pond Outflow...	12.00	7.31	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	31,152.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	28,943.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	31,152.000 ft³
Volume (Total Out ICPM)	28,943.000 ft³
Volume (Ending)	2,206.000 ft³
Elevation (Ending)	86.25 ft
Difference	3.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB2
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	85.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.00	87.58	5,152.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	17.78	0.00	0.00
Pond Outflow...	12.00	13.43	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	61,459.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	58,510.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	61,459.000 ft³
Volume (Total Out ICPM)	58,510.000 ft³
Volume (Ending)	2,206.000 ft³
Elevation (Ending)	86.25 ft
Difference	743.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	1.2 %

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB20 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	97.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
97.10	0.00	0.000	0.000	0.00	0.00	0.00
97.20	0.00	211.500	0.000	0.00	0.00	2.35
97.30	0.00	424.874	0.000	0.00	0.00	4.72
97.40	0.00	640.123	0.000	0.00	0.00	7.11
97.50	0.00	857.252	0.000	0.00	0.00	9.53
97.60	0.00	1,076.264	0.000	0.00	0.00	11.96
97.70	0.00	1,527.469	0.000	0.00	0.00	16.97
97.72	0.00	1,617.815	0.000	0.00	0.00	17.98
97.80	0.02	1,979.200	0.000	0.00	0.02	22.01
97.90	0.10	2,430.223	0.000	0.00	0.10	27.10
98.00	0.23	2,880.538	0.000	0.00	0.23	32.23
98.10	0.41	3,329.532	0.000	0.00	0.41	37.40
98.20	0.63	3,776.339	0.000	0.00	0.63	42.59
98.30	0.88	4,220.715	0.000	0.00	0.88	47.78
98.40	1.16	4,663.035	0.000	0.00	1.16	52.98
98.50	1.47	5,102.806	0.000	0.00	1.47	58.17
98.60	1.79	5,539.288	0.000	0.00	1.79	63.33
98.70	1.97	5,972.238	0.000	0.00	1.97	68.33
98.80	2.14	6,400.418	0.000	0.00	2.14	73.25
98.90	2.67	6,824.452	0.000	0.00	2.67	78.50
99.00	3.51	7,243.848	0.000	0.00	3.51	84.00
99.10	4.55	7,657.617	0.000	0.00	4.55	89.63
99.20	5.74	8,065.019	0.000	0.00	5.74	95.35
99.30	7.07	8,464.695	0.000	0.00	7.07	101.13
99.40	8.53	8,854.914	0.000	0.00	8.53	106.92
99.50	10.09	9,236.670	0.000	0.00	10.09	112.72
99.60	11.76	9,608.107	0.000	0.00	11.76	118.52
99.70	13.53	9,964.398	0.000	0.00	13.53	124.24
99.80	15.39	10,302.695	0.000	0.00	15.39	129.86

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB20 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.90	17.33	10,612.349	0.000	0.00	17.33	135.25
100.00	19.36	10,898.812	0.000	0.00	19.36	140.46
100.10	21.47	11,173.735	0.000	0.00	21.47	145.62
100.20	23.65	11,442.818	0.000	0.00	23.65	150.79
100.30	25.91	11,713.871	0.000	0.00	25.91	156.06
100.40	28.24	11,986.896	0.000	0.00	28.24	161.42
100.50	30.63	12,261.896	0.000	0.00	30.63	166.88
100.60	33.10	12,538.875	0.000	0.00	33.10	172.42

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB20 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	97.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.44 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.30 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	98.83 ft
Volume (Peak)	6,532.403 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	19,354.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	17,731.000 ft³
Volume (Retained)	1,623.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB20 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	97.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.52 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	6.42 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	99.25 ft
Volume (Peak)	8,268.062 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	33,665.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	32,041.000 ft³
Volume (Retained)	1,624.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB20 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	97.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	18.54 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	15.70 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	99.82 ft
Volume (Peak)	10,352.018 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	65,378.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	63,753.000 ft³
Volume (Retained)	1,624.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB20 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB20'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA20 Imp
Out49	UGB49
Out21	UGB21
Out48	UGB48
<Catchment to Outflow Node>	DA20 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA20 Imp	7,653.329	12.00	2.42
Flow (From)	Out49	3,332.085	12.00	0.97
Flow (From)	Out21	5,405.174	12.05	1.48
Flow (From)	Out48	2,196.174	12.05	0.62
Flow (From)	DA20 Perv	767.154	12.00	0.19
Flow (In)	UGB20	19,353.916	12.00	5.44

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB20 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB20'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA20 Imp
Out49	UGB49
Out21	UGB21
Out48	UGB48
<Catchment to Outflow Node>	DA20 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA20 Imp	12,140.372	12.00	3.74
Flow (From)	Out49	5,911.371	12.00	1.76
Flow (From)	Out21	9,577.942	12.05	2.57
Flow (From)	Out48	3,871.068	12.05	1.07
Flow (From)	DA20 Perv	2,164.144	12.00	0.69
Flow (In)	UGB20	33,664.898	12.00	9.52

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB20 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB20'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA20 Imp
Out49	UGB49
Out21	UGB21
Out48	UGB48
<Catchment to Outflow Node>	DA20 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA20 Imp	21,390.642	12.00	6.44
Flow (From)	Out49	11,666.549	12.00	3.47
Flow (From)	Out21	18,754.570	12.05	5.02
Flow (From)	Out48	7,548.816	12.05	2.03
Flow (From)	DA20 Perv	6,017.087	12.00	2.03
Flow (In)	UGB20	65,377.664	12.00	18.54

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB21
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.000	0.00	0.00	0.00
98.10	0.00	28.416	0.000	0.00	0.00	0.32
98.20	0.00	57.319	0.000	0.00	0.00	0.64
98.30	0.00	86.712	0.000	0.00	0.00	0.96
98.40	0.00	116.599	0.000	0.00	0.00	1.30
98.50	0.00	146.982	0.000	0.00	0.00	1.63
98.60	0.00	206.691	0.000	0.00	0.00	2.30
98.70	0.00	266.406	0.000	0.00	0.00	2.96
98.80	0.00	326.531	0.000	0.00	0.00	3.63
98.90	0.00	386.596	0.000	0.00	0.00	4.30
99.00	0.00	446.969	0.000	0.00	0.00	4.97
99.10	0.00	507.410	0.000	0.00	0.00	5.64
99.20	0.00	567.785	0.000	0.00	0.00	6.31
99.25	0.00	598.111	0.000	0.00	0.00	6.65
99.30	0.03	628.438	0.000	0.00	0.03	7.01
99.40	0.13	688.922	0.000	0.00	0.13	7.79
99.50	0.28	749.578	0.000	0.00	0.28	8.61
99.60	0.47	810.126	0.000	0.00	0.47	9.47
99.70	0.68	870.472	0.000	0.00	0.68	10.35
99.80	0.92	930.907	0.000	0.00	0.92	11.26
99.90	1.18	991.018	0.000	0.00	1.18	12.19
100.00	1.46	1,051.078	0.000	0.00	1.46	13.14
100.10	1.76	1,110.781	0.000	0.00	1.76	14.11
100.20	2.08	1,170.058	0.000	0.00	2.08	15.08
100.30	2.42	1,229.114	0.000	0.00	2.42	16.08
100.40	2.77	1,287.559	0.000	0.00	2.77	17.08
100.50	3.14	1,345.556	0.000	0.00	3.14	18.10
100.60	3.53	1,402.658	0.000	0.00	3.53	19.11
100.70	3.93	1,458.789	0.000	0.00	3.93	20.14

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB21
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.80	4.34	1,513.891	0.000	0.00	4.34	21.16
100.90	4.77	1,567.370	0.000	0.00	4.77	22.18
101.00	5.21	1,618.286	0.000	0.00	5.21	23.19
101.10	5.66	1,666.216	0.000	0.00	5.66	24.18
101.20	6.13	1,713.230	0.000	0.00	6.13	25.16
101.30	6.60	1,759.302	0.000	0.00	6.60	26.15
101.40	7.09	1,805.478	0.000	0.00	7.09	27.15
101.50	7.59	1,852.245	0.000	0.00	7.59	28.17
101.60	8.11	1,899.609	0.000	0.00	8.11	29.21
101.70	8.63	1,947.572	0.000	0.00	8.63	30.27
101.75	8.89	1,971.778	0.000	0.00	8.89	30.80

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB21
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.000	0.00	0.00	0.00
98.10	0.00	28.416	0.000	0.00	0.00	0.32
98.20	0.00	57.319	0.000	0.00	0.00	0.64
98.30	0.00	86.712	0.000	0.00	0.00	0.96
98.40	0.00	116.599	0.000	0.00	0.00	1.30
98.50	0.00	146.982	0.000	0.00	0.00	1.63
98.60	0.00	206.691	0.000	0.00	0.00	2.30
98.70	0.00	266.406	0.000	0.00	0.00	2.96
98.80	0.00	326.531	0.000	0.00	0.00	3.63
98.90	0.00	386.596	0.000	0.00	0.00	4.30
99.00	0.00	446.969	0.000	0.00	0.00	4.97
99.10	0.00	507.410	0.000	0.00	0.00	5.64
99.20	0.00	567.785	0.000	0.00	0.00	6.31
99.25	0.00	598.111	0.000	0.00	0.00	6.65
99.30	0.03	628.438	0.000	0.00	0.03	7.01
99.40	0.13	688.922	0.000	0.00	0.13	7.79
99.50	0.28	749.578	0.000	0.00	0.28	8.61
99.60	0.47	810.126	0.000	0.00	0.47	9.47
99.70	0.68	870.472	0.000	0.00	0.68	10.35
99.80	0.92	930.907	0.000	0.00	0.92	11.26
99.90	1.18	991.018	0.000	0.00	1.18	12.19
100.00	1.46	1,051.078	0.000	0.00	1.46	13.14
100.10	1.76	1,110.781	0.000	0.00	1.76	14.11
100.20	2.08	1,170.058	0.000	0.00	2.08	15.08
100.30	2.42	1,229.114	0.000	0.00	2.42	16.08
100.40	2.77	1,287.559	0.000	0.00	2.77	17.08
100.50	3.14	1,345.556	0.000	0.00	3.14	18.10
100.60	3.53	1,402.658	0.000	0.00	3.53	19.11
100.70	3.93	1,458.789	0.000	0.00	3.93	20.14

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB21
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.80	4.34	1,513.891	0.000	0.00	4.34	21.16
100.90	4.77	1,567.370	0.000	0.00	4.77	22.18
101.00	5.21	1,618.286	0.000	0.00	5.21	23.19
101.10	5.66	1,666.216	0.000	0.00	5.66	24.18
101.20	6.13	1,713.230	0.000	0.00	6.13	25.16
101.30	6.60	1,759.302	0.000	0.00	6.60	26.15
101.40	7.09	1,805.478	0.000	0.00	7.09	27.15
101.50	7.59	1,852.245	0.000	0.00	7.59	28.17
101.60	8.11	1,899.609	0.000	0.00	8.11	29.21
101.70	8.63	1,947.572	0.000	0.00	8.63	30.27
101.75	8.89	1,971.778	0.000	0.00	8.89	30.80

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB21
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.000	0.00	0.00	0.00
98.10	0.00	28.416	0.000	0.00	0.00	0.32
98.20	0.00	57.319	0.000	0.00	0.00	0.64
98.30	0.00	86.712	0.000	0.00	0.00	0.96
98.40	0.00	116.599	0.000	0.00	0.00	1.30
98.50	0.00	146.982	0.000	0.00	0.00	1.63
98.60	0.00	206.691	0.000	0.00	0.00	2.30
98.70	0.00	266.406	0.000	0.00	0.00	2.96
98.80	0.00	326.531	0.000	0.00	0.00	3.63
98.90	0.00	386.596	0.000	0.00	0.00	4.30
99.00	0.00	446.969	0.000	0.00	0.00	4.97
99.10	0.00	507.410	0.000	0.00	0.00	5.64
99.20	0.00	567.785	0.000	0.00	0.00	6.31
99.25	0.00	598.111	0.000	0.00	0.00	6.65
99.30	0.03	628.438	0.000	0.00	0.03	7.01
99.40	0.13	688.922	0.000	0.00	0.13	7.79
99.50	0.28	749.578	0.000	0.00	0.28	8.61
99.60	0.47	810.126	0.000	0.00	0.47	9.47
99.70	0.68	870.472	0.000	0.00	0.68	10.35
99.80	0.92	930.907	0.000	0.00	0.92	11.26
99.90	1.18	991.018	0.000	0.00	1.18	12.19
100.00	1.46	1,051.078	0.000	0.00	1.46	13.14
100.10	1.76	1,110.781	0.000	0.00	1.76	14.11
100.20	2.08	1,170.058	0.000	0.00	2.08	15.08
100.30	2.42	1,229.114	0.000	0.00	2.42	16.08
100.40	2.77	1,287.559	0.000	0.00	2.77	17.08
100.50	3.14	1,345.556	0.000	0.00	3.14	18.10
100.60	3.53	1,402.658	0.000	0.00	3.53	19.11
100.70	3.93	1,458.789	0.000	0.00	3.93	20.14

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB21
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.80	4.34	1,513.891	0.000	0.00	4.34	21.16
100.90	4.77	1,567.370	0.000	0.00	4.77	22.18
101.00	5.21	1,618.286	0.000	0.00	5.21	23.19
101.10	5.66	1,666.216	0.000	0.00	5.66	24.18
101.20	6.13	1,713.230	0.000	0.00	6.13	25.16
101.30	6.60	1,759.302	0.000	0.00	6.60	26.15
101.40	7.09	1,805.478	0.000	0.00	7.09	27.15
101.50	7.59	1,852.245	0.000	0.00	7.59	28.17
101.60	8.11	1,899.609	0.000	0.00	8.11	29.21
101.70	8.63	1,947.572	0.000	0.00	8.63	30.27
101.75	8.89	1,971.778	0.000	0.00	8.89	30.80

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB21 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.74 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.48 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	100.00 ft
Volume (Peak)	1,053.943 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,003.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,405.000 ft³
Volume (Retained)	598.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB21 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB21'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA21 Perv
<Catchment to Outflow Node>	DA21 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA21 Perv	441.279	12.05	0.10
Flow (From)	DA21 Imp	5,562.007	12.00	1.65
Flow (In)	UGB21	6,003.286	12.00	1.74

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB21 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB21'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA21 Perv
<Catchment to Outflow Node>	DA21 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA21 Perv	1,244.787	12.05	0.36
Flow (From)	DA21 Imp	8,931.268	12.00	2.58
Flow (In)	UGB21	10,176.056	12.00	2.92

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB21 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB21'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA21 Perv
<Catchment to Outflow Node>	DA21 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA21 Perv	3,460.752	12.05	1.03
Flow (From)	DA21 Imp	15,891.930	12.00	4.48
Flow (In)	UGB21	19,352.682	12.00	5.50

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB22
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
107.00	0.00	0.000	0.000	0.00	0.00	0.00
107.25	0.00	1,028.256	0.000	0.00	0.00	11.43
107.50	0.00	2,068.919	0.000	0.00	0.00	22.99
107.75	0.00	4,267.923	0.000	0.00	0.00	47.42
108.00	0.00	6,449.450	0.000	0.00	0.00	71.66
108.25	0.56	8,594.895	0.000	0.00	0.56	96.06
108.50	1.59	10,700.163	0.000	0.00	1.59	120.48
108.75	2.92	12,745.666	0.000	0.00	2.92	144.54
109.00	4.50	14,724.823	0.000	0.00	4.50	168.11
109.25	6.29	16,606.658	0.000	0.00	6.29	190.81
109.50	8.27	18,370.211	0.000	0.00	8.27	212.38
109.75	10.42	19,924.550	0.000	0.00	10.42	231.80
110.00	12.73	21,201.878	0.000	0.00	12.73	248.30
110.25	15.19	22,388.534	0.000	0.00	15.19	263.95
110.50	17.79	23,588.173	0.000	0.00	17.79	279.88

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB22
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
107.00	0.00	0.000	0.000	0.00	0.00	0.00
107.25	0.00	1,028.256	0.000	0.00	0.00	11.43
107.50	0.00	2,068.919	0.000	0.00	0.00	22.99
107.75	0.00	4,267.923	0.000	0.00	0.00	47.42
108.00	0.00	6,449.450	0.000	0.00	0.00	71.66
108.25	0.56	8,594.895	0.000	0.00	0.56	96.06
108.50	1.59	10,700.163	0.000	0.00	1.59	120.48
108.75	2.92	12,745.666	0.000	0.00	2.92	144.54
109.00	4.50	14,724.823	0.000	0.00	4.50	168.11
109.25	6.29	16,606.658	0.000	0.00	6.29	190.81
109.50	8.27	18,370.211	0.000	0.00	8.27	212.38
109.75	10.42	19,924.550	0.000	0.00	10.42	231.80
110.00	12.73	21,201.878	0.000	0.00	12.73	248.30
110.25	15.19	22,388.534	0.000	0.00	15.19	263.95
110.50	17.79	23,588.173	0.000	0.00	17.79	279.88

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB22
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
107.00	0.00	0.000	0.000	0.00	0.00	0.00
107.25	0.00	1,028.256	0.000	0.00	0.00	11.43
107.50	0.00	2,068.919	0.000	0.00	0.00	22.99
107.75	0.00	4,267.923	0.000	0.00	0.00	47.42
108.00	0.00	6,449.450	0.000	0.00	0.00	71.66
108.25	0.56	8,594.895	0.000	0.00	0.56	96.06
108.50	1.59	10,700.163	0.000	0.00	1.59	120.48
108.75	2.92	12,745.666	0.000	0.00	2.92	144.54
109.00	4.50	14,724.823	0.000	0.00	4.50	168.11
109.25	6.29	16,606.658	0.000	0.00	6.29	190.81
109.50	8.27	18,370.211	0.000	0.00	8.27	212.38
109.75	10.42	19,924.550	0.000	0.00	10.42	231.80
110.00	12.73	21,201.878	0.000	0.00	12.73	248.30
110.25	15.19	22,388.534	0.000	0.00	15.19	263.95
110.50	17.79	23,588.173	0.000	0.00	17.79	279.88

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB22 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.10 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.14 ft³/s	Time to Peak (Flow, Outlet)	14.25 hours

Elevation (Water Surface, Peak)	108.06 ft
Volume (Peak)	6,999.219 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,881.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,431.000 ft³
Volume (Retained)	6,449.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB22 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.24 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.87 ft³/s	Time to Peak (Flow, Outlet)	12.45 hours

Elevation (Water Surface, Peak)	108.33 ft
Volume (Peak)	9,232.422 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	16,933.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	10,484.000 ft³
Volume (Retained)	6,449.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB22 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.91 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.89 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	108.90 ft
Volume (Peak)	13,967.180 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	32,538.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	26,089.000 ft³
Volume (Retained)	6,449.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB22 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB22'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA22 Imp
<Catchment to Outflow Node>	DA22 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA22 Imp	8,881.851	12.00	2.87
Flow (From)	DA22 Perv	998.727	12.05	0.25
Flow (In)	UGB22	9,880.578	12.00	3.10

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB22 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB22'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA22 Imp
<Catchment to Outflow Node>	DA22 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA22 Imp	14,259.661	12.00	4.46
Flow (From)	DA22 Perv	2,673.576	12.05	0.77
Flow (In)	UGB22	16,933.238	12.00	5.24

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB22 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB22'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA22 Imp
<Catchment to Outflow Node>	DA22 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA22 Imp	25,370.190	12.00	7.72
Flow (From)	DA22 Perv	7,168.121	12.00	2.19
Flow (In)	UGB22	32,538.311	12.00	9.91

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB27
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.00	0.00	0.000	0.051	0.00	0.00	0.00
99.25	0.00	226.411	0.053	0.03	0.03	2.54
99.50	0.00	459.077	0.054	0.03	0.03	5.13
99.75	0.00	936.144	0.056	0.03	0.03	10.43
100.00	0.00	1,412.787	0.057	0.03	0.03	15.73
100.25	0.00	1,887.324	0.059	0.03	0.03	21.00
100.50	0.00	2,358.913	0.060	0.03	0.03	26.24
100.72	0.00	2,769.186	0.062	0.03	0.03	30.80
100.75	0.02	2,824.834	0.062	0.03	0.05	31.43
101.00	0.44	3,284.090	0.063	0.03	0.48	36.97
101.25	1.16	3,732.352	0.065	0.03	1.19	42.66
101.50	2.07	4,167.674	0.067	0.03	2.10	48.41
101.75	3.14	4,580.740	0.068	0.03	3.17	54.07
102.00	4.34	4,959.648	0.070	0.04	4.38	59.49
102.25	5.68	5,287.453	0.071	0.04	5.71	64.46
102.50	7.12	5,602.329	0.073	0.04	7.16	69.41
102.75	8.68	5,924.370	0.075	0.04	8.71	74.54

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB27 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.73 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.05 hours
Flow (Peak Outlet)	1.27 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	101.28 ft
Volume (Peak)	3,784.923 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	8,855.000 ft³
Volume (Total Infiltration)	4,645.000 ft³
Volume (Total Outlet Outflow)	3,955.000 ft³
Volume (Retained)	255.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB27 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.20 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.00 hours
Flow (Peak Outlet)	2.92 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	101.70 ft
Volume (Peak)	4,499.595 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	13,875.000 ft³
Volume (Total Infiltration)	4,823.000 ft³
Volume (Total Outlet Outflow)	8,761.000 ft³
Volume (Retained)	290.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB27 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.20 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.00 hours
Flow (Peak Outlet)	5.82 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	102.27 ft
Volume (Peak)	5,317.570 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	24,210.000 ft³
Volume (Total Infiltration)	4,991.000 ft³
Volume (Total Outlet Outflow)	18,912.000 ft³
Volume (Retained)	306.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB27 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB27'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA27 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA27 Imp	8,854.615	12.00	2.73
Flow (In)	UGB27	8,854.615	12.00	2.73

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB27 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB27'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA27 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA27 Imp	13,875.488	12.00	4.20
Flow (In)	UGB27	13,875.488	12.00	4.20

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB27 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB27'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA27 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA27 Imp	24,210.096	12.00	7.20
Flow (In)	UGB27	24,210.096	12.00	7.20

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB3 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
85.50	0.00	0.000	0.000	0.00	0.00	0.00
85.51	0.00	6.326	0.000	0.00	0.00	0.07
85.60	0.05	63.256	0.022	0.01	0.06	0.76
85.70	0.16	177.824	0.031	0.02	0.18	2.16
85.80	0.32	324.664	0.038	0.02	0.34	3.95
85.90	0.50	496.718	0.044	0.02	0.52	6.04
86.00	0.73	689.770	0.050	0.03	0.75	8.41
86.10	1.01	900.879	0.055	0.03	1.04	11.05
86.20	1.29	1,127.810	0.059	0.03	1.32	13.85
86.30	1.54	1,368.771	0.064	0.03	1.57	16.78
86.40	1.85	1,622.270	0.068	0.03	1.89	19.91
86.50	2.19	1,887.027	0.072	0.04	2.22	23.19
86.60	2.54	2,161.918	0.076	0.04	2.58	26.60
86.70	2.91	2,445.942	0.079	0.04	2.95	30.13
86.80	3.30	2,738.191	0.083	0.04	3.34	33.76
86.90	3.70	3,037.832	0.086	0.04	3.74	37.50
87.00	4.12	3,344.091	0.090	0.05	4.16	41.32
87.10	4.55	3,656.246	0.093	0.05	4.60	45.22
87.20	5.00	3,973.612	0.096	0.05	5.05	49.20
87.30	5.46	4,295.541	0.100	0.05	5.51	53.24
87.40	5.93	4,621.409	0.103	0.05	5.99	57.33
87.50	6.42	4,950.615	0.106	0.05	6.47	61.48
87.60	6.92	5,282.579	0.109	0.06	6.98	65.67
87.70	7.43	5,616.732	0.112	0.06	7.49	69.90
87.80	7.96	5,952.518	0.115	0.06	8.02	74.15
87.90	8.49	6,289.387	0.119	0.06	8.55	78.43
88.00	9.04	6,626.797	0.122	0.06	9.10	82.73
88.10	9.65	6,964.207	0.125	0.06	9.72	87.10

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB3 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
88.20	10.17	7,301.076	0.128	0.06	10.23	91.35
88.30	10.74	7,636.862	0.131	0.07	10.81	95.66
88.40	11.33	7,971.015	0.134	0.07	11.40	99.96
88.50	11.93	8,302.979	0.137	0.07	12.00	104.25
88.60	12.53	8,632.185	0.140	0.07	12.60	108.52
88.70	13.15	8,958.053	0.144	0.07	13.22	112.75
88.80	13.77	9,279.982	0.147	0.07	13.84	116.96
88.90	14.40	9,597.348	0.150	0.08	14.48	121.11
89.00	15.04	9,909.503	0.154	0.08	15.12	125.22
89.10	15.68	10,215.762	0.157	0.08	15.76	129.27
89.20	16.33	10,515.403	0.160	0.08	16.42	133.25
89.30	16.99	10,807.652	0.164	0.08	17.07	137.16
89.40	17.65	11,091.676	0.168	0.08	17.73	140.97
89.50	18.31	11,366.567	0.172	0.09	18.40	144.69
89.60	18.97	11,631.324	0.176	0.09	19.06	148.29
89.70	19.65	11,884.823	0.180	0.09	19.74	151.79
89.80	20.30	12,125.784	0.184	0.09	20.39	155.12
89.90	20.88	12,352.715	0.189	0.10	20.97	158.22
90.00	21.52	12,563.824	0.194	0.10	21.61	161.21
90.10	22.34	12,756.876	0.199	0.10	22.44	164.18
90.20	23.17	12,928.930	0.205	0.10	23.28	166.93
90.30	24.01	13,075.770	0.212	0.11	24.12	169.41
90.40	24.86	13,190.338	0.221	0.11	24.97	171.53
90.50	25.72	13,253.594	0.243	0.12	25.84	173.10

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB3 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.42 ft³/s	Time to Peak (Flow, In)	17.50 hours
Infiltration (Peak)	0.02 ft³/s	Time to Peak (Infiltration)	17.75 hours
Flow (Peak Outlet)	0.40 ft³/s	Time to Peak (Flow, Outlet)	17.75 hours

Elevation (Water Surface, Peak)	85.84 ft
Volume (Peak)	400.412 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	22,133.000 ft³
Volume (Total Infiltration)	1,441.000 ft³
Volume (Total Outlet Outflow)	20,689.000 ft³
Volume (Retained)	4.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB3 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.21 ft³/s	Time to Peak (Flow, In)	15.40 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	15.60 hours
Flow (Peak Outlet)	1.18 ft³/s	Time to Peak (Flow, Outlet)	15.60 hours

Elevation (Water Surface, Peak)	86.16 ft
Volume (Peak)	1,036.136 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	66,032.000 ft³
Volume (Total Infiltration)	2,631.000 ft³
Volume (Total Outlet Outflow)	63,381.000 ft³
Volume (Retained)	18.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB3 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	10.44 ft³/s	Time to Peak (Flow, In)	12.50 hours
Infiltration (Peak)	0.06 ft³/s	Time to Peak (Infiltration)	12.80 hours
Flow (Peak Outlet)	9.88 ft³/s	Time to Peak (Flow, Outlet)	12.80 hours

Elevation (Water Surface, Peak)	88.14 ft
Volume (Peak)	7,110.432 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	156,729.000 ft³
Volume (Total Infiltration)	3,242.000 ft³
Volume (Total Outlet Outflow)	153,454.000 ft³
Volume (Retained)	30.000 ft³
Volume (Unrouted)	-4.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB3 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB3'

Upstream Link	Upstream Node
Out35	Bio35
Out51	Bio51

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out35	20,191.206	18.25	0.38
Flow (From)	Out51	1,942.099	13.75	0.10
Flow (In)	UGB3	22,133.306	17.50	0.42

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB3 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB3'

Upstream Link	Upstream Node
Out35	Bio35
Out51	Bio51

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out35	59,426.023	15.55	1.09
Flow (From)	Out51	6,606.289	12.30	0.83
Flow (In)	UGB3	66,032.311	15.40	1.21

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB3 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB3'

Upstream Link	Upstream Node
Out35	Bio35
Out51	Bio51

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out35	138,840.072	12.70	8.83
Flow (From)	Out51	17,888.919	12.15	3.45
Flow (In)	UGB3	156,728.991	12.50	10.44

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB31
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	92.60 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
92.60	0.00	0.000	0.000	0.00	0.00	0.00
92.85	0.00	348.931	0.000	0.00	0.00	3.88
93.10	0.00	704.872	0.000	0.00	0.00	7.83
93.18	0.00	937.365	0.000	0.00	0.00	10.42
93.35	0.09	1,431.653	0.000	0.00	0.09	15.99
93.60	0.49	2,156.029	0.000	0.00	0.49	24.45
93.85	1.14	2,872.396	0.000	0.00	1.14	33.05
94.10	1.86	3,579.222	0.000	0.00	1.86	41.63
94.35	2.28	4,270.597	0.000	0.00	2.28	49.73
94.60	2.63	4,944.195	0.000	0.00	2.63	57.56
94.85	2.94	5,590.497	0.000	0.00	2.94	65.06
95.10	3.22	6,202.612	0.000	0.00	3.22	72.14
95.35	3.48	6,752.005	0.000	0.00	3.48	78.50
95.60	3.72	7,216.922	0.000	0.00	3.72	83.90
95.85	3.94	7,656.795	0.000	0.00	3.94	89.02
96.10	4.15	8,104.254	0.000	0.00	4.15	94.20

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB31 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	92.60 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.90 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.42 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	93.95 ft
Volume (Peak)	3,144.726 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,536.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	8,599.000 ft³
Volume (Retained)	937.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB31 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	92.60 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.47 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.15 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	94.27 ft
Volume (Peak)	4,060.814 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	15,068.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	14,130.000 ft³
Volume (Retained)	937.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB31 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	92.60 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.70 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.20 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	95.08 ft
Volume (Peak)	6,155.775 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	26,466.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	25,529.000 ft³
Volume (Retained)	937.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB31 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA31 Imp
<Catchment to Outflow Node>	DA31 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA31 Imp	6,432.192	12.00	2.01
Flow (From)	DA31 Perv	3,103.713	12.00	0.89
Flow (In)	UGB31	9,535.906	12.00	2.90

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB31 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA31 Imp
<Catchment to Outflow Node>	DA31 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA31 Imp	10,203.815	12.00	3.11
Flow (From)	DA31 Perv	4,864.024	12.00	1.36
Flow (In)	UGB31	15,067.838	12.00	4.47

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB31 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA31 Imp
<Catchment to Outflow Node>	DA31 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA31 Imp	17,979.110	12.00	5.36
Flow (From)	DA31 Perv	8,487.235	12.00	2.34
Flow (In)	UGB31	26,466.344	12.00	7.70

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB32
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
109.75	0.00	0.000	0.000	0.00	0.00	0.00
110.00	0.00	1,028.256	0.000	0.00	0.00	11.43
110.25	0.00	2,068.919	0.000	0.00	0.00	22.99
110.50	0.00	4,267.923	0.000	0.00	0.00	47.42
110.75	0.56	6,449.450	0.000	0.00	0.56	72.22
111.00	1.59	8,594.895	0.000	0.00	1.59	97.09
111.25	2.92	10,700.163	0.000	0.00	2.92	121.81
111.50	4.50	12,745.666	0.000	0.00	4.50	146.12
111.75	6.29	14,724.823	0.000	0.00	6.29	169.90
112.00	8.27	16,606.658	0.000	0.00	8.27	192.79
112.25	10.42	18,370.211	0.000	0.00	10.42	214.53
112.50	12.73	19,924.550	0.000	0.00	12.73	234.11
112.75	15.19	21,201.878	0.000	0.00	15.19	250.76
113.00	17.79	22,388.534	0.000	0.00	17.79	266.55
113.25	20.52	23,588.173	0.000	0.00	20.52	282.61

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB32 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.10 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.01 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	111.26 ft
Volume (Peak)	10,813.423 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	25,712.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	21,444.000 ft³
Volume (Retained)	4,268.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB32 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	12.77 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	5.71 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	111.67 ft
Volume (Peak)	14,094.283 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	41,307.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	37,040.000 ft³
Volume (Retained)	4,268.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB32 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	22.46 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	12.15 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	112.44 ft
Volume (Peak)	19,566.518 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	73,993.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	69,725.000 ft³
Volume (Retained)	4,268.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB32 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB32'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA32 Perv
<Catchment to Outflow Node>	DA32 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA32 Perv	423.433	12.00	0.13
Flow (From)	DA32 Imp	25,288.520	12.00	7.97
Flow (In)	UGB32	25,711.953	12.00	8.10

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB32 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB32'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA32 Perv
<Catchment to Outflow Node>	DA32 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA32 Perv	1,193.091	12.00	0.44
Flow (From)	DA32 Imp	40,114.392	12.00	12.33
Flow (In)	UGB32	41,307.483	12.00	12.77

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB32 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB32'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA32 Perv
<Catchment to Outflow Node>	DA32 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA32 Perv	3,314.095	12.00	1.23
Flow (From)	DA32 Imp	70,678.821	12.00	21.23
Flow (In)	UGB32	73,992.916	12.00	22.46

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB33
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
105.82	0.00	0.000	0.000	0.00	0.00	0.00
106.07	0.00	226.411	0.000	0.00	0.00	2.52
106.32	0.00	459.077	0.000	0.00	0.00	5.10
106.40	0.00	611.279	0.000	0.00	0.00	6.79
106.57	0.32	935.435	0.000	0.00	0.32	10.71
106.82	1.22	1,411.941	0.000	0.00	1.22	16.91
107.07	2.47	1,885.100	0.000	0.00	2.47	23.41
107.32	3.97	2,353.786	0.000	0.00	3.97	30.12
107.57	5.69	2,814.308	0.000	0.00	5.69	36.97
107.82	7.61	3,265.020	0.000	0.00	7.61	43.89
108.07	9.71	3,699.879	0.000	0.00	9.71	50.82
108.32	11.97	4,114.257	0.000	0.00	11.97	57.69
108.57	14.38	4,489.716	0.000	0.00	14.38	64.27
108.82	16.94	4,811.931	0.000	0.00	16.94	70.41
109.07	19.63	5,119.834	0.000	0.00	19.63	76.52
109.32	22.45	5,434.568	0.000	0.00	22.45	82.84

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB33 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.20 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.63 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	107.26 ft
Volume (Peak)	2,247.494 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	28,863.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	28,252.000 ft³
Volume (Retained)	611.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB33 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.85 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	7.00 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	107.74 ft
Volume (Peak)	3,123.089 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	49,720.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	49,108.000 ft³
Volume (Retained)	611.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB33 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	16.09 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	14.95 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	108.63 ft
Volume (Peak)	4,565.731 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	93,779.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	93,168.000 ft³
Volume (Retained)	611.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB33 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB33'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA33 Perv
Out34	UGB34
Out32	UGB32
<Catchment to Outflow Node>	DA33 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA33 Perv	172.763	12.00	0.05
Flow (From)	Out34	3,337.476	12.15	0.35
Flow (From)	Out32	21,444.029	12.05	3.01
Flow (From)	DA33 Imp	3,908.667	12.00	1.20
Flow (In)	UGB33	28,862.936	12.00	4.20

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB33 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB33'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA33 Perv
Out34	UGB34
Out32	UGB32
<Catchment to Outflow Node>	DA33 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA33 Perv	487.222	12.00	0.18
Flow (From)	Out34	6,067.419	12.10	0.79
Flow (From)	Out32	37,039.561	12.05	5.71
Flow (From)	DA33 Imp	6,125.408	12.00	1.85
Flow (In)	UGB33	49,719.610	12.00	7.85

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB33 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB33'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA33 Perv
Out34	UGB34
Out32	UGB32
<Catchment to Outflow Node>	DA33 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA33 Perv	1,354.319	12.00	0.50
Flow (From)	Out34	12,011.527	12.10	1.47
Flow (From)	Out32	69,724.993	12.05	12.15
Flow (From)	DA33 Imp	10,688.106	12.00	3.17
Flow (In)	UGB33	93,778.945	12.00	16.09

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB34
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
109.50	0.00	0.000	0.000	0.00	0.00	0.00
109.75	0.00	391.888	0.000	0.00	0.00	4.35
110.00	0.00	793.495	0.000	0.00	0.00	8.82
110.25	0.16	1,583.242	0.000	0.00	0.16	17.75
110.50	0.58	2,349.867	0.000	0.00	0.58	26.69
110.75	1.08	3,074.183	0.000	0.00	1.08	35.24
111.00	1.37	3,740.357	0.000	0.00	1.37	42.93
111.25	1.61	4,278.202	0.000	0.00	1.61	49.14
111.50	1.81	4,749.415	0.000	0.00	1.81	54.59
111.75	2.00	5,223.702	0.000	0.00	2.00	60.04
111.83	2.06	5,383.854	0.000	0.00	2.06	61.88

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB34 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.28 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.35 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	110.36 ft
Volume (Peak)	1,937.349 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,131.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,337.000 ft³
Volume (Retained)	793.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB34 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.12 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.79 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	110.60 ft
Volume (Peak)	2,655.645 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,861.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	6,067.000 ft³
Volume (Retained)	793.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB34 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.92 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.47 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	111.10 ft
Volume (Peak)	3,980.723 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	12,805.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	12,012.000 ft³
Volume (Retained)	793.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB34 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB34'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA34 Perv
<Catchment to Outflow Node>	DA34 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA34 Perv	249.311	12.00	0.06
Flow (From)	DA34 Imp	3,881.660	12.00	1.22
Flow (In)	UGB34	4,130.971	12.00	1.28

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB34 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB34'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA34 Perv
<Catchment to Outflow Node>	DA34 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA34 Perv	703.317	12.00	0.23
Flow (From)	DA34 Imp	6,157.597	12.00	1.89
Flow (In)	UGB34	6,860.914	12.00	2.12

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB34 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB34'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA34 Perv
<Catchment to Outflow Node>	DA34 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA34 Perv	1,955.493	12.00	0.66
Flow (From)	DA34 Imp	10,849.527	12.00	3.25
Flow (In)	UGB34	12,805.020	12.00	3.92

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB37
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.50	0.00	0.000	0.000	0.00	0.00	0.00
103.75	0.00	226.411	0.000	0.00	0.00	2.52
104.00	0.00	459.077	0.000	0.00	0.00	5.10
104.25	0.00	935.435	0.000	0.00	0.00	10.39
104.50	0.00	1,411.941	0.000	0.00	0.00	15.69
104.75	0.38	1,885.100	0.000	0.00	0.38	21.32
105.00	1.06	2,353.786	0.000	0.00	1.06	27.21
105.25	1.95	2,814.308	0.000	0.00	1.95	33.22
105.50	3.00	3,265.020	0.000	0.00	3.00	39.28
105.75	4.19	3,699.879	0.000	0.00	4.19	45.30
106.00	5.51	4,114.257	0.000	0.00	5.51	51.23
106.25	6.95	4,489.716	0.000	0.00	6.95	56.83
106.50	8.49	4,811.931	0.000	0.00	8.49	61.95
106.75	10.13	5,119.834	0.000	0.00	10.13	67.01
107.00	11.86	5,434.568	0.000	0.00	11.86	72.24

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB37 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.31 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.52 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	104.80 ft
Volume (Peak)	1,981.843 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,227.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	2,815.000 ft³
Volume (Retained)	1,412.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB37 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.20 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.34 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	105.08 ft
Volume (Peak)	2,501.226 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,131.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,720.000 ft³
Volume (Retained)	1,412.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB37 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.17 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.84 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	105.46 ft
Volume (Peak)	3,195.229 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	13,557.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	12,145.000 ft³
Volume (Retained)	1,412.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB37 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB37'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA37 Imp
<Catchment to Outflow Node>	DA37 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA37 Imp	3,881.783	12.00	1.22
Flow (From)	DA37 Perv	345.211	12.00	0.08
Flow (In)	UGB37	4,226.994	12.00	1.31

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB37 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB37'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA37 Imp
<Catchment to Outflow Node>	DA37 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA37 Imp	6,157.607	12.00	1.89
Flow (From)	DA37 Perv	973.855	12.00	0.31
Flow (In)	UGB37	7,131.462	12.00	2.20

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB37 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB37'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA37 Imp
<Catchment to Outflow Node>	DA37 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA37 Imp	10,849.345	12.00	3.26
Flow (From)	DA37 Perv	2,707.682	12.00	0.91
Flow (In)	UGB37	13,557.027	12.00	4.17

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB4
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
85.10	0.00	0.000	0.098	0.00	0.00	0.00
85.35	0.00	430.166	0.100	0.05	0.05	4.83
85.60	0.00	867.457	0.101	0.05	0.05	9.69
85.85	0.00	1,771.828	0.103	0.05	0.05	19.74
86.10	0.00	2,670.322	0.105	0.05	0.05	29.72
86.35	0.38	3,559.217	0.106	0.05	0.43	39.98
86.60	1.06	4,437.267	0.108	0.05	1.12	50.42
86.85	1.95	5,298.734	0.110	0.06	2.00	60.88
87.10	3.00	6,142.081	0.112	0.06	3.06	71.30
87.35	4.19	6,958.450	0.114	0.06	4.25	81.57
87.60	5.51	7,744.479	0.115	0.06	5.57	91.62
87.85	6.95	8,481.661	0.117	0.06	7.00	101.24
88.10	8.49	9,147.387	0.119	0.06	8.55	110.18
88.35	10.13	9,708.515	0.121	0.06	10.19	118.06
88.60	11.86	10,238.912	0.123	0.06	11.92	125.69
88.85	13.68	10,777.380	0.125	0.06	13.74	133.49

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB4 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.05 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.05 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	0.71 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	86.47 ft
Volume (Peak)	3,988.594 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,492.000 ft³
Volume (Total Infiltration)	5,703.000 ft³
Volume (Total Outlet Outflow)	3,787.000 ft³
Volume (Retained)	2.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB4 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.90 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.06 ft³/s	Time to Peak (Infiltration)	12.05 hours
Flow (Peak Outlet)	2.31 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	86.94 ft
Volume (Peak)	5,594.178 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	15,588.000 ft³
Volume (Total Infiltration)	6,271.000 ft³
Volume (Total Outlet Outflow)	9,314.000 ft³
Volume (Retained)	3.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB4 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.79 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.06 ft³/s	Time to Peak (Infiltration)	12.05 hours
Flow (Peak Outlet)	5.19 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	87.54 ft
Volume (Peak)	7,558.272 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	28,546.000 ft³
Volume (Total Infiltration)	6,753.000 ft³
Volume (Total Outlet Outflow)	21,789.000 ft³
Volume (Retained)	3.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB4 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB4'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA4 Imp
<Catchment to Outflow Node>	DA4 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA4 Imp	9,204.486	12.00	2.97
Flow (From)	DA4 Perv	287.582	12.00	0.08
Flow (In)	UGB4	9,492.068	12.00	3.05

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB4 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB4'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA4 Imp
<Catchment to Outflow Node>	DA4 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA4 Imp	14,776.947	12.00	4.63
Flow (From)	DA4 Perv	811.370	12.00	0.27
Flow (In)	UGB4	15,588.317	12.00	4.90

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB4 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB4'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA4 Imp
<Catchment to Outflow Node>	DA4 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA4 Imp	26,289.701	12.00	8.01
Flow (From)	DA4 Perv	2,256.105	12.00	0.78
Flow (In)	UGB4	28,545.806	12.00	8.79

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB41 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.00	0.00	0.000	0.000	0.00	0.00	0.00
104.50	0.00	96.313	0.000	0.00	0.00	1.07
104.79	0.00	195.491	0.000	0.00	0.00	2.17
105.00	0.12	267.349	0.000	0.00	0.12	3.09
105.50	1.03	432.981	0.000	0.00	1.03	5.84
106.00	1.57	574.893	0.000	0.00	1.57	7.96
106.33	1.85	671.552	0.000	0.00	1.85	9.31

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB41 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.60 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.54 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	105.23 ft
Volume (Peak)	344.963 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,858.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	1,663.000 ft³
Volume (Retained)	195.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB41 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.96 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.86 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	105.41 ft
Volume (Peak)	402.649 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	3,030.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	2,835.000 ft³
Volume (Retained)	195.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB41 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.70 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.43 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	105.87 ft
Volume (Peak)	538.474 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	5,499.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,303.000 ft³
Volume (Retained)	195.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB41 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB41'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA41 Perv
<Catchment to Outflow Node>	DA41 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA41 Perv	38.766	12.00	0.01
Flow (From)	DA41 Imp	1,819.491	12.00	0.59
Flow (In)	UGB41	1,858.258	12.00	0.60

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB41 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB41'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA41 Perv
<Catchment to Outflow Node>	DA41 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA41 Perv	108.969	12.00	0.04
Flow (From)	DA41 Imp	2,921.024	12.00	0.92
Flow (In)	UGB41	3,029.994	12.00	0.96

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB41 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB41'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA41 Perv
<Catchment to Outflow Node>	DA41 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA41 Perv	302.128	12.00	0.11
Flow (From)	DA41 Imp	5,196.801	12.00	1.58
Flow (In)	UGB41	5,498.929	12.00	1.70

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB42
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
95.00	0.00	0.000	0.000	0.00	0.00	0.00
95.25	0.00	196.849	0.000	0.00	0.00	2.19
95.50	0.00	399.269	0.000	0.00	0.00	4.44
95.75	0.00	813.059	0.000	0.00	0.00	9.03
96.00	0.00	1,227.140	0.000	0.00	0.00	13.63
96.25	0.28	1,638.504	0.000	0.00	0.28	18.49
96.50	0.80	2,046.168	0.000	0.00	0.80	23.53
96.75	1.46	2,446.954	0.000	0.00	1.46	28.65
97.00	2.25	2,839.426	0.000	0.00	2.25	33.80
97.25	3.14	3,218.371	0.000	0.00	3.14	38.90
97.50	4.13	3,579.767	0.000	0.00	4.13	43.91
97.75	5.21	3,907.659	0.000	0.00	5.21	48.63
98.00	6.36	4,189.620	0.000	0.00	6.36	52.92
98.25	7.59	4,459.417	0.000	0.00	7.59	57.14
98.50	8.89	4,735.361	0.000	0.00	8.89	61.51

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB42 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.97 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.09 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	96.61 ft
Volume (Peak)	2,222.987 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	5,991.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	4,763.000 ft³
Volume (Retained)	1,227.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB42 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.35 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.15 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	96.97 ft
Volume (Peak)	2,788.932 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,351.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	9,124.000 ft³
Volume (Retained)	1,227.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB42 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.31 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	4.49 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	97.58 ft
Volume (Peak)	3,694.195 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	19,935.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	18,708.000 ft³
Volume (Retained)	1,227.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB42 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB42'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA42 Imp
<Catchment to Outflow Node>	DA42 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA42 Imp	5,568.748	12.00	1.86
Flow (From)	DA42 Perv	421.826	12.00	0.11
Flow (In)	UGB42	5,990.574	12.00	1.97

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB42 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB42'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA42 Imp
<Catchment to Outflow Node>	DA42 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA42 Imp	9,161.213	12.00	2.96
Flow (From)	DA42 Perv	1,190.074	12.00	0.39
Flow (In)	UGB42	10,351.287	12.00	3.35

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB42 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB42'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA42 Imp
<Catchment to Outflow Node>	DA42 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA42 Imp	16,625.919	12.00	5.17
Flow (From)	DA42 Perv	3,309.043	12.00	1.14
Flow (In)	UGB42	19,934.962	12.00	6.31

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB43 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.048	0.00	0.00	0.00
98.25	0.00	211.630	0.049	0.02	0.02	2.38
98.50	0.00	429.173	0.051	0.03	0.03	4.79
98.75	0.00	874.247	0.052	0.03	0.03	9.74
99.00	0.00	1,319.541	0.054	0.03	0.03	14.69
99.25	0.38	1,761.802	0.055	0.03	0.40	19.98
99.50	1.06	2,199.977	0.056	0.03	1.09	25.53
99.75	1.95	2,630.631	0.058	0.03	1.98	31.21
100.00	3.00	3,052.223	0.059	0.03	3.03	36.94
100.25	4.19	3,459.125	0.061	0.03	4.22	42.66
100.50	5.51	3,847.012	0.062	0.03	5.54	48.29
100.75	6.95	4,198.688	0.064	0.03	6.98	53.63
101.00	8.49	4,500.775	0.066	0.03	8.52	58.53
101.25	10.13	4,789.626	0.067	0.03	10.16	63.38
101.50	11.86	5,084.964	0.069	0.03	11.89	68.39

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB43 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.60 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	14.60 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	98.83 ft
Volume (Peak)	1,020.846 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,985.000 ft³
Volume (Total Infiltration)	1,985.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB43 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.13 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.55 hours
Flow (Peak Outlet)	0.31 ft³/s	Time to Peak (Flow, Outlet)	12.55 hours

Elevation (Water Surface, Peak)	99.21 ft
Volume (Peak)	1,689.300 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,520.000 ft³
Volume (Total Infiltration)	2,698.000 ft³
Volume (Total Outlet Outflow)	1,821.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB43 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.31 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	2.11 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	99.79 ft
Volume (Peak)	2,697.584 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,633.000 ft³
Volume (Total Infiltration)	3,130.000 ft³
Volume (Total Outlet Outflow)	7,502.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB43 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB43'

Upstream Link	Upstream Node
Out44	UGB44
<Catchment to Outflow Node>	DA43 Imp
<Catchment to Outflow Node>	DA43 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out44	0.000	0.00	0.00
Flow (From)	DA43 Imp	1,494.935	12.00	0.46
Flow (From)	DA43 Perv	490.007	12.00	0.14
Flow (In)	UGB43	1,984.942	12.00	0.60

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB43 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB43'

Upstream Link	Upstream Node
Out44	UGB44
<Catchment to Outflow Node>	DA43 Imp
<Catchment to Outflow Node>	DA43 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out44	1,002.278	12.25	0.22
Flow (From)	DA43 Imp	2,342.615	12.00	0.71
Flow (From)	DA43 Perv	1,174.909	12.00	0.37
Flow (In)	UGB43	4,519.802	12.00	1.13

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB43 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB43'

Upstream Link	Upstream Node
Out44	UGB44
<Catchment to Outflow Node>	DA43 Imp
<Catchment to Outflow Node>	DA43 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out44	3,641.250	12.05	1.24
Flow (From)	DA43 Imp	4,087.419	12.00	1.22
Flow (From)	DA43 Perv	2,904.541	12.00	0.92
Flow (In)	UGB43	10,633.210	12.00	3.31

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB44
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.00	0.00	0.000	0.048	0.00	0.00	0.00
101.25	0.00	211.630	0.049	0.02	0.02	2.38
101.50	0.00	429.173	0.051	0.03	0.03	4.79
101.75	0.00	874.247	0.052	0.03	0.03	9.74
102.00	0.00	1,319.541	0.054	0.03	0.03	14.69
102.25	0.38	1,761.802	0.055	0.03	0.40	19.98
102.50	1.06	2,199.977	0.056	0.03	1.09	25.53
102.75	1.95	2,630.631	0.058	0.03	1.98	31.21
103.00	3.00	3,052.223	0.059	0.03	3.03	36.94
103.25	4.19	3,459.125	0.061	0.03	4.22	42.66
103.50	5.51	3,847.012	0.062	0.03	5.54	48.29
103.75	6.95	4,198.688	0.064	0.03	6.98	53.63
104.00	8.49	4,500.775	0.066	0.03	8.52	58.53
104.25	10.13	4,789.626	0.067	0.03	10.16	63.38
104.50	11.86	5,084.964	0.069	0.03	11.89	68.39

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB44 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.73 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	14.65 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	101.96 ft
Volume (Peak)	1,250.980 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	2,225.000 ft³
Volume (Total Infiltration)	2,225.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB44 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.18 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.25 hours
Flow (Peak Outlet)	0.22 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	102.15 ft
Volume (Peak)	1,582.587 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	3,684.000 ft³
Volume (Total Infiltration)	2,682.000 ft³
Volume (Total Outlet Outflow)	1,002.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB44 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.11 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.05 hours
Flow (Peak Outlet)	1.24 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	102.55 ft
Volume (Peak)	2,289.257 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,780.000 ft³
Volume (Total Infiltration)	3,137.000 ft³
Volume (Total Outlet Outflow)	3,641.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB44 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB44'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA44 Imp
<Catchment to Outflow Node>	DA44 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA44 Imp	2,166.871	12.00	0.71
Flow (From)	DA44 Perv	58.045	12.00	0.02
Flow (In)	UGB44	2,224.916	12.00	0.73

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB44 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB44'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA44 Imp
<Catchment to Outflow Node>	DA44 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA44 Imp	3,521.237	12.00	1.12
Flow (From)	DA44 Perv	163.249	12.00	0.06
Flow (In)	UGB44	3,684.487	12.00	1.18

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB44 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB44'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA44 Imp
<Catchment to Outflow Node>	DA44 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA44 Imp	6,326.725	12.00	1.95
Flow (From)	DA44 Perv	452.823	12.00	0.17
Flow (In)	UGB44	6,779.549	12.00	2.11

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB46
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.00	0.00	0.000	0.000	0.00	0.00	0.00
103.10	0.00	23.061	0.000	0.00	0.00	0.26
103.20	0.00	46.629	0.000	0.00	0.00	0.52
103.30	0.00	70.705	0.000	0.00	0.00	0.79
103.40	0.00	95.294	0.000	0.00	0.00	1.06
103.50	0.00	120.399	0.000	0.00	0.00	1.34
103.60	0.00	168.442	0.000	0.00	0.00	1.87
103.70	0.00	216.621	0.000	0.00	0.00	2.41
103.80	0.00	265.251	0.000	0.00	0.00	2.95
103.90	0.00	313.965	0.000	0.00	0.00	3.49
104.00	0.00	363.052	0.000	0.00	0.00	4.03
104.10	0.00	412.326	0.000	0.00	0.00	4.58
104.20	0.00	461.682	0.000	0.00	0.00	5.13
104.30	0.00	511.390	0.000	0.00	0.00	5.68
104.34	0.00	531.275	0.000	0.00	0.00	5.90
104.40	0.01	561.102	0.000	0.00	0.01	6.25
104.50	0.08	611.084	0.000	0.00	0.08	6.87
104.60	0.20	661.119	0.000	0.00	0.20	7.54
104.70	0.37	711.136	0.000	0.00	0.37	8.27
104.80	0.58	761.359	0.000	0.00	0.58	9.04
104.90	0.83	811.470	0.000	0.00	0.83	9.85
105.00	1.11	861.681	0.000	0.00	1.11	10.68
105.10	1.41	911.756	0.000	0.00	1.41	11.54
105.20	1.75	961.641	0.000	0.00	1.75	12.43
105.30	1.93	1,011.495	0.000	0.00	1.93	13.17
105.40	2.11	1,061.017	0.000	0.00	2.11	13.89
105.50	2.26	1,110.335	0.000	0.00	2.26	14.60
105.60	2.41	1,159.101	0.000	0.00	2.41	15.29
105.70	2.55	1,207.255	0.000	0.00	2.55	15.96

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB46
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
105.80	2.68	1,254.756	0.000	0.00	2.68	16.62
105.90	2.81	1,301.140	0.000	0.00	2.81	17.26
106.00	2.93	1,345.679	0.000	0.00	2.93	17.88
106.10	3.04	1,388.043	0.000	0.00	3.04	18.47
106.20	3.15	1,429.842	0.000	0.00	3.15	19.04
106.30	3.26	1,471.058	0.000	0.00	3.26	19.61
106.40	3.37	1,512.505	0.000	0.00	3.37	20.17
106.50	3.47	1,554.563	0.000	0.00	3.47	20.74
106.60	3.56	1,597.236	0.000	0.00	3.56	21.31
106.70	3.66	1,640.526	0.000	0.00	3.66	21.89
106.75	3.71	1,662.404	0.000	0.00	3.71	22.18

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB46 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.14 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.98 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	104.95 ft
Volume (Peak)	838.465 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	3,688.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,156.000 ft³
Volume (Retained)	531.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB46 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.88 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.68 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	105.18 ft
Volume (Peak)	952.033 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,157.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,626.000 ft³
Volume (Retained)	531.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB46 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.48 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.69 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	105.81 ft
Volume (Peak)	1,259.044 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,565.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	11,034.000 ft³
Volume (Retained)	531.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB46 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB46'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA46 Imp
<Catchment to Outflow Node>	DA46 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA46 Imp	3,438.254	12.00	1.08
Flow (From)	DA46 Perv	249.353	12.05	0.06
Flow (In)	UGB46	3,687.607	12.00	1.14

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB46 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB46'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA46 Imp
<Catchment to Outflow Node>	DA46 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA46 Imp	5,453.990	12.00	1.68
Flow (From)	DA46 Perv	703.417	12.05	0.20
Flow (In)	UGB46	6,157.407	12.00	1.88

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB46 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB46'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA46 Imp
<Catchment to Outflow Node>	DA46 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA46 Imp	9,609.554	12.00	2.89
Flow (From)	DA46 Perv	1,955.702	12.00	0.60
Flow (In)	UGB46	11,565.256	12.00	3.48

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB47 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
108.00	0.00	0.000	0.000	0.00	0.00	0.00
108.10	0.00	83.867	0.000	0.00	0.00	0.93
108.20	0.00	168.714	0.000	0.00	0.00	1.87
108.30	0.00	254.546	0.000	0.00	0.00	2.83
108.40	0.00	341.364	0.000	0.00	0.00	3.79
108.50	0.00	429.173	0.000	0.00	0.00	4.77
108.60	0.00	607.657	0.000	0.00	0.00	6.75
108.70	0.00	785.590	0.000	0.00	0.00	8.73
108.80	0.00	964.227	0.000	0.00	0.00	10.71
108.83	0.00	1,017.587	0.000	0.00	0.00	11.31
108.90	0.01	1,142.094	0.000	0.00	0.01	12.70
109.00	0.09	1,320.330	0.000	0.00	0.09	14.76
109.10	0.22	1,498.182	0.000	0.00	0.22	16.86
109.20	0.39	1,675.228	0.000	0.00	0.39	19.00
109.30	0.61	1,852.527	0.000	0.00	0.61	21.19
109.40	0.86	2,028.690	0.000	0.00	0.86	23.40
109.50	1.14	2,204.762	0.000	0.00	1.14	25.64
109.60	1.44	2,379.870	0.000	0.00	1.44	27.88
109.70	1.77	2,553.716	0.000	0.00	1.77	30.14
109.80	1.95	2,727.193	0.000	0.00	1.95	32.25
109.90	2.12	2,899.015	0.000	0.00	2.12	34.33
110.00	2.28	3,070.022	0.000	0.00	2.28	36.39
110.10	2.42	3,239.258	0.000	0.00	2.42	38.42
110.20	2.56	3,406.496	0.000	0.00	2.56	40.41
110.30	2.69	3,572.369	0.000	0.00	2.69	42.39
110.40	2.82	3,735.660	0.000	0.00	2.82	44.33
110.50	2.94	3,896.868	0.000	0.00	2.94	46.24
110.60	3.05	4,054.597	0.000	0.00	3.05	48.10
110.70	3.16	4,208.598	0.000	0.00	3.16	49.93

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB47 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
110.80	3.27	4,358.689	0.000	0.00	3.27	51.70
110.90	3.38	4,503.015	0.000	0.00	3.38	53.41
111.00	3.48	4,638.645	0.000	0.00	3.48	55.02
111.10	3.57	4,764.252	0.000	0.00	3.57	56.51
111.20	3.67	4,886.272	0.000	0.00	3.67	57.96
111.30	3.76	5,004.620	0.000	0.00	3.76	59.37
111.40	3.85	5,122.538	0.000	0.00	3.85	60.77
111.50	3.94	5,241.541	0.000	0.00	3.94	62.18
111.60	4.03	5,361.635	0.000	0.00	4.03	63.60
111.70	4.11	5,482.821	0.000	0.00	4.11	65.03
111.75	4.15	5,543.824	0.000	0.00	4.15	65.75

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB47 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.88 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.10 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	109.49 ft
Volume (Peak)	2,179.736 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,453.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,435.000 ft³
Volume (Retained)	1,018.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB47 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.11 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.92 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	109.78 ft
Volume (Peak)	2,692.636 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,947.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	9,930.000 ft³
Volume (Retained)	1,018.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB47 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.79 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.07 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	110.62 ft
Volume (Peak)	4,081.971 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	20,942.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	19,924.000 ft³
Volume (Retained)	1,018.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB47 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB47'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA47 Imp
<Catchment to Outflow Node>	DA47- Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA47 Imp	5,877.196	12.00	1.81
Flow (From)	DA47- Perv	575.654	12.10	0.11
Flow (In)	UGB47	6,452.850	12.00	1.88

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB47 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB47'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA47 Imp
<Catchment to Outflow Node>	DA47- Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA47 Imp	9,323.396	12.00	2.81
Flow (From)	DA47- Perv	1,623.769	12.10	0.39
Flow (In)	UGB47	10,947.165	12.00	3.11

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB47 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB47'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA47 Imp
<Catchment to Outflow Node>	DA47- Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA47 Imp	16,427.832	12.00	4.84
Flow (From)	DA47- Perv	4,514.249	12.05	1.16
Flow (In)	UGB47	20,942.081	12.00	5.79

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB48
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.90	0.00	0.000	0.000	0.00	0.00	0.00
101.15	0.00	49.217	0.000	0.00	0.00	0.55
101.40	0.00	100.702	0.000	0.00	0.00	1.12
101.65	0.00	202.067	0.000	0.00	0.00	2.25
101.70	0.00	222.466	0.000	0.00	0.00	2.47
101.90	0.15	304.555	0.000	0.00	0.15	3.53
102.15	0.72	407.599	0.000	0.00	0.72	5.25
102.40	1.64	510.918	0.000	0.00	1.64	7.32
102.65	2.85	613.914	0.000	0.00	2.85	9.67
102.90	4.22	716.193	0.000	0.00	4.22	12.18
103.15	5.36	816.695	0.000	0.00	5.36	14.44
103.40	6.12	914.423	0.000	0.00	6.12	16.28
103.65	6.80	1,005.843	0.000	0.00	6.80	17.97
103.90	7.41	1,088.014	0.000	0.00	7.41	19.50
104.15	7.98	1,168.881	0.000	0.00	7.98	20.97
104.40	8.51	1,252.592	0.000	0.00	8.51	22.43

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB48 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.72 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.62 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	102.11 ft
Volume (Peak)	389.084 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	2,419.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	2,196.000 ft³
Volume (Retained)	222.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB48 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.21 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.07 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	102.25 ft
Volume (Peak)	447.304 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,094.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,871.000 ft³
Volume (Retained)	222.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB48 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.28 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.03 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	102.48 ft
Volume (Peak)	544.385 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,771.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,549.000 ft³
Volume (Retained)	222.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB48 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB48'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA48 Imp
<Catchment to Outflow Node>	DA48 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA48 Imp	2,246.025	12.00	0.68
Flow (From)	DA48 Perv	172.615	12.05	0.04
Flow (In)	UGB48	2,418.641	12.00	0.72

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB48 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB48'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA48 Imp
<Catchment to Outflow Node>	DA48 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA48 Imp	3,606.600	12.00	1.07
Flow (From)	DA48 Perv	486.936	12.00	0.14
Flow (In)	UGB48	4,093.536	12.00	1.21

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB48 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB48'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA48 Imp
<Catchment to Outflow Node>	DA48 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA48 Imp	6,417.454	12.00	1.85
Flow (From)	DA48 Perv	1,353.830	12.00	0.43
Flow (In)	UGB48	7,771.284	12.00	2.28

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB49
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
102.70	0.00	0.000	0.000	0.00	0.00	0.00
102.95	0.00	61.036	0.000	0.00	0.00	0.68
103.20	0.00	124.663	0.000	0.00	0.00	1.39
103.45	0.00	246.416	0.000	0.00	0.00	2.74
103.64	0.00	339.816	0.000	0.00	0.00	3.78
103.70	0.01	369.409	0.000	0.00	0.01	4.12
103.95	0.35	492.966	0.000	0.00	0.35	5.83
104.20	1.09	616.758	0.000	0.00	1.09	7.94
104.45	2.14	740.069	0.000	0.00	2.14	10.37
104.70	3.43	862.444	0.000	0.00	3.43	13.01
104.95	4.89	982.624	0.000	0.00	4.89	15.81
105.20	5.71	1,099.451	0.000	0.00	5.71	17.93
105.45	6.43	1,208.781	0.000	0.00	6.43	19.86
105.70	7.08	1,307.186	0.000	0.00	7.08	21.60
105.95	7.67	1,403.916	0.000	0.00	7.67	23.27
106.20	8.22	1,503.813	0.000	0.00	8.22	24.93

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB49 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.13 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.97 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	104.16 ft
Volume (Peak)	597.392 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	3,672.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,332.000 ft³
Volume (Retained)	340.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB49 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.93 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.76 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	104.36 ft
Volume (Peak)	695.397 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,251.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,911.000 ft³
Volume (Retained)	340.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB49 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.71 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.47 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	104.71 ft
Volume (Peak)	865.995 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	12,006.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	11,667.000 ft³
Volume (Retained)	340.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB49 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB49'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA49 Imp
<Catchment to Outflow Node>	DA49 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA49 Imp	3,326.747	12.00	1.04
Flow (From)	DA49 Perv	345.153	12.00	0.09
Flow (In)	UGB49	3,671.899	12.00	1.13

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB49 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB49'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA49 Imp
<Catchment to Outflow Node>	DA49 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA49 Imp	5,277.435	12.00	1.61
Flow (From)	DA49 Perv	973.754	12.00	0.32
Flow (In)	UGB49	6,251.188	12.00	1.93

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB49 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB49'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA49 Imp
<Catchment to Outflow Node>	DA49 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA49 Imp	9,298.833	12.00	2.78
Flow (From)	DA49 Perv	2,707.532	12.00	0.93
Flow (In)	UGB49	12,006.365	12.00	3.71

Basin Routings Current Rainfall

Subsection: Pond Infiltration Calculations
Label: UGB5 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
94.00	1,062.7	0.00
94.25	1,099.1	0.01
94.50	1,136.1	0.01
94.75	1,173.5	0.01
95.00	1,211.4	0.01
95.25	1,249.8	0.01
95.50	1,288.7	0.01
95.75	1,328.2	0.02
96.00	1,368.1	0.02
96.25	1,408.5	0.02
96.50	1,449.4	0.02
96.75	1,490.8	0.02
96.90	1,515.9	0.02
97.00	1,532.8	0.02
97.25	1,575.2	0.02
97.50	1,618.1	0.02

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB5
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	12.15	96.59	2,046.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.00	2.96	0.00	0.00
Infiltration...	12.15	0.00	0.00	0.00
Pond Outflow...	12.15	1.88	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	13,695.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,642.000	Forward
Pond Outflow...	0.000	Reverse	12,068.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	13,695.000 ft³
Volume (Total Out ICPM)	13,711.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	-16.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB5
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.05	97.29	2,503.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	5.75	0.00	0.00
Infiltration...	12.05	0.00	0.00	0.00
Pond Outflow...	12.05	5.33	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	23,835.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,770.000	Forward
Pond Outflow...	0.000	Reverse	22,022.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	23,835.000 ft³
Volume (Total Out ICPM)	23,792.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	43.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.2 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB5
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.00	97.45	2,604.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	11.95	7.55	0.00	0.00
Infiltration...	12.00	0.00	0.00	0.00
Pond Outflow...	12.00	7.36	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	43,449.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,896.000	Forward
Pond Outflow...	0.000	Reverse	41,590.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	43,449.000 ft³
Volume (Total Out ICPM)	43,486.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	-38.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB50 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.00	0.00	0.000	0.000	0.00	0.00	0.00
101.10	0.00	23.061	0.000	0.00	0.00	0.26
101.20	0.00	46.629	0.000	0.00	0.00	0.52
101.30	0.00	70.705	0.000	0.00	0.00	0.79
101.40	0.00	95.294	0.000	0.00	0.00	1.06
101.50	0.00	120.399	0.000	0.00	0.00	1.34
101.60	0.00	168.442	0.000	0.00	0.00	1.87
101.70	0.00	216.621	0.000	0.00	0.00	2.41
101.80	0.00	265.251	0.000	0.00	0.00	2.95
101.90	0.00	313.965	0.000	0.00	0.00	3.49
102.00	0.00	363.052	0.000	0.00	0.00	4.03
102.10	0.00	412.326	0.000	0.00	0.00	4.58
102.20	0.00	461.682	0.000	0.00	0.00	5.13
102.30	0.00	511.390	0.000	0.00	0.00	5.68
102.40	0.00	561.102	0.000	0.00	0.00	6.23
102.50	0.00	611.084	0.000	0.00	0.00	6.79
102.60	0.00	661.119	0.000	0.00	0.00	7.35
102.70	0.00	711.136	0.000	0.00	0.00	7.90
102.80	0.00	761.359	0.000	0.00	0.00	8.46
102.90	0.03	811.470	0.000	0.00	0.03	9.05
103.00	0.13	861.681	0.000	0.00	0.13	9.71
103.10	0.29	911.756	0.000	0.00	0.29	10.42
103.20	0.50	961.641	0.000	0.00	0.50	11.19
103.30	0.76	1,011.495	0.000	0.00	0.76	12.00
103.40	1.07	1,061.017	0.000	0.00	1.07	12.86
103.50	1.41	1,110.335	0.000	0.00	1.41	13.75
103.60	1.78	1,159.101	0.000	0.00	1.78	14.66
103.70	2.17	1,207.255	0.000	0.00	2.17	15.59
103.80	2.67	1,254.756	0.000	0.00	2.67	16.61

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB50 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.90	2.93	1,301.140	0.000	0.00	2.93	17.39
104.00	3.16	1,345.679	0.000	0.00	3.16	18.11
104.10	3.38	1,388.043	0.000	0.00	3.38	18.80
104.20	3.59	1,429.842	0.000	0.00	3.59	19.47
104.30	3.78	1,471.058	0.000	0.00	3.78	20.13
104.40	3.96	1,512.505	0.000	0.00	3.96	20.77
104.50	4.14	1,554.563	0.000	0.00	4.14	21.41
104.60	4.31	1,597.236	0.000	0.00	4.31	22.06
104.70	4.47	1,640.526	0.000	0.00	4.47	22.70
104.75	4.55	1,662.404	0.000	0.00	4.55	23.02

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB50 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.30 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.16 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	103.43 ft
Volume (Peak)	1,073.592 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,223.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,461.000 ft³
Volume (Retained)	761.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB50 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.11 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.94 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	103.64 ft
Volume (Peak)	1,178.932 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,983.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	6,222.000 ft³
Volume (Retained)	761.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB50 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.84 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	3.39 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	104.10 ft
Volume (Peak)	1,389.066 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	12,965.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	12,204.000 ft³
Volume (Retained)	761.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB50 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB50'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA50 Imp
<Catchment to Outflow Node>	DA50 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA50 Imp	3,992.554	12.00	1.26
Flow (From)	DA50 Perv	230.240	12.05	0.05
Flow (In)	UGB50	4,222.794	12.00	1.30

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB50 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB50'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA50 Imp
<Catchment to Outflow Node>	DA50 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA50 Imp	6,333.479	12.00	1.94
Flow (From)	DA50 Perv	649.470	12.05	0.18
Flow (In)	UGB50	6,982.949	12.00	2.11

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB50 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB50'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA50 Imp
<Catchment to Outflow Node>	DA50 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA50 Imp	11,159.392	12.00	3.35
Flow (From)	DA50 Perv	1,805.636	12.05	0.53
Flow (In)	UGB50	12,965.028	12.00	3.84

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB54 Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.00	0.00	0.000	0.000	0.00	0.00	0.00
99.10	0.00	53.273	0.000	0.00	0.00	0.59
99.20	0.00	107.190	0.000	0.00	0.00	1.19
99.30	0.00	161.753	0.000	0.00	0.00	1.80
99.40	0.00	216.966	0.000	0.00	0.00	2.41
99.50	0.00	272.832	0.000	0.00	0.00	3.03
99.60	0.00	354.104	0.000	0.00	0.00	3.93
99.63	0.00	378.469	0.000	0.00	0.00	4.21
99.70	0.02	435.319	0.000	0.00	0.02	4.85
99.80	0.10	516.417	0.000	0.00	0.10	5.83
99.90	0.24	597.237	0.000	0.00	0.24	6.87
100.00	0.43	677.619	0.000	0.00	0.43	7.96
100.10	0.68	757.238	0.000	0.00	0.68	9.09
100.20	0.97	836.261	0.000	0.00	0.97	10.26
100.30	1.31	914.260	0.000	0.00	1.31	11.46
100.40	1.67	990.994	0.000	0.00	1.67	12.68
100.50	2.05	1,066.095	0.000	0.00	2.05	13.90
100.60	2.45	1,138.009	0.000	0.00	2.45	15.10
100.70	2.85	1,205.899	0.000	0.00	2.85	16.25
100.80	3.09	1,272.391	0.000	0.00	3.09	17.23
100.90	3.32	1,338.064	0.000	0.00	3.32	18.18
101.00	3.53	1,404.109	0.000	0.00	3.53	19.13
101.10	3.72	1,470.859	0.000	0.00	3.72	20.07
101.20	3.91	1,538.316	0.000	0.00	3.91	21.00
101.30	4.09	1,606.484	0.000	0.00	4.09	21.94
101.33	4.15	1,629.366	0.000	0.00	4.15	22.25

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB54 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.12 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.85 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	100.16 ft
Volume (Peak)	802.879 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	3,508.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,129.000 ft³
Volume (Retained)	378.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB54 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.84 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.51 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	100.36 ft
Volume (Peak)	957.536 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	5,866.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,487.000 ft³
Volume (Retained)	378.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB54 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.40 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.93 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	100.73 ft
Volume (Peak)	1,227.210 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,979.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	10,600.000 ft³
Volume (Retained)	378.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB54 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB54'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA54 Perv
<Catchment to Outflow Node>	DA54 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA54 Perv	191.762	12.00	0.05
Flow (From)	DA54 Imp	3,316.098	12.00	1.07
Flow (In)	UGB54	3,507.861	12.00	1.12

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB54 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB54'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA54 Perv
<Catchment to Outflow Node>	DA54 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA54 Perv	541.004	12.00	0.18
Flow (From)	DA54 Imp	5,324.674	12.00	1.66
Flow (In)	UGB54	5,865.678	12.00	1.84

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB54 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB54'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA54 Perv
<Catchment to Outflow Node>	DA54 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA54 Perv	1,504.264	12.00	0.52
Flow (From)	DA54 Imp	9,474.278	12.00	2.88
Flow (In)	UGB54	10,978.542	12.00	3.40

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB55
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
106.00	0.00	0.000	0.000	0.00	0.00	0.00
106.25	0.00	1,399.733	0.000	0.00	0.00	15.55
106.50	0.00	2,811.077	0.000	0.00	0.00	31.23
106.75	0.00	5,814.153	0.000	0.00	0.00	64.60
106.79	0.00	6,292.683	0.000	0.00	0.00	69.92
107.00	0.29	8,787.585	0.000	0.00	0.29	97.93
107.25	0.94	11,705.228	0.000	0.00	0.94	130.99
107.50	1.79	14,561.879	0.000	0.00	1.79	163.59
107.75	3.57	17,330.037	0.000	0.00	3.57	196.13
108.00	6.11	20,001.073	0.000	0.00	6.11	228.35
108.25	9.19	22,531.773	0.000	0.00	9.19	259.54
108.50	12.71	24,893.676	0.000	0.00	12.71	289.30
108.75	16.62	26,960.872	0.000	0.00	16.62	316.18
109.00	20.88	28,640.299	0.000	0.00	20.88	339.10
109.25	25.47	30,188.484	0.000	0.00	25.47	360.89
109.50	30.35	31,748.856	0.000	0.00	30.35	383.12

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB55 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.75 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.49 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	107.41 ft
Volume (Peak)	13,548.701 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	25,216.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	18,924.000 ft³
Volume (Retained)	6,293.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB55 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	12.32 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	4.41 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	107.83 ft
Volume (Peak)	18,222.555 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	40,555.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	34,262.000 ft³
Volume (Retained)	6,293.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB55 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	21.92 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	12.03 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	108.45 ft
Volume (Peak)	24,447.106 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	72,975.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	66,682.000 ft³
Volume (Retained)	6,293.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB55 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB55'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA55 Perv
<Catchment to Outflow Node>	DA55 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA55 Perv	1,182.391	12.00	0.34
Flow (From)	DA55 Imp	24,033.955	12.00	7.41
Flow (In)	UGB55	25,216.346	12.00	7.75

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB55 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB55'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA55 Perv
<Catchment to Outflow Node>	DA55 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA55 Perv	2,892.734	12.00	0.93
Flow (From)	DA55 Imp	37,662.040	12.00	11.39
Flow (In)	UGB55	40,554.774	12.00	12.32

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB55 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB55'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA55 Perv
<Catchment to Outflow Node>	DA55 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA55 Perv	7,261.441	12.00	2.36
Flow (From)	DA55 Imp	65,713.119	12.00	19.55
Flow (In)	UGB55	72,974.560	12.00	21.92

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB56
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
110.00	0.00	0.000	0.000	0.00	0.00	0.00
110.25	0.00	2,158.429	0.000	0.00	0.00	23.98
110.50	0.00	4,331.090	0.000	0.00	0.00	48.12
110.75	0.00	8,970.777	0.000	0.00	0.00	99.68
111.00	0.00	13,560.593	0.000	0.00	0.00	150.67
111.25	0.38	18,059.601	0.000	0.00	0.38	201.04
111.50	1.06	22,460.020	0.000	0.00	1.06	250.62
111.75	1.95	26,718.800	0.000	0.00	1.95	298.82
112.00	3.00	30,822.844	0.000	0.00	3.00	345.48
112.25	4.19	34,704.704	0.000	0.00	4.19	389.80
112.50	5.51	38,320.503	0.000	0.00	5.51	431.29
112.75	7.70	41,474.399	0.000	0.00	7.70	468.52
113.00	10.61	44,022.227	0.000	0.00	10.61	499.74
113.25	14.02	46,361.873	0.000	0.00	14.02	529.15
113.50	17.86	48,716.328	0.000	0.00	17.86	559.15

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB56 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.19 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.23 ft³/s	Time to Peak (Flow, Outlet)	14.95 hours

Elevation (Water Surface, Peak)	111.15 ft
Volume (Peak)	16,271.601 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	21,993.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	8,432.000 ft³
Volume (Retained)	13,561.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB56 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	11.59 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.05 ft³/s	Time to Peak (Flow, Outlet)	12.90 hours

Elevation (Water Surface, Peak)	111.50 ft
Volume (Peak)	22,405.105 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	36,386.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	22,824.000 ft³
Volume (Retained)	13,561.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB56 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	20.74 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	4.30 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	112.27 ft
Volume (Peak)	35,012.216 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	66,871.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	53,308.000 ft³
Volume (Retained)	13,563.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB56 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB56'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA56 Perv
<Catchment to Outflow Node>	DA56 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA56 Perv	536.693	12.00	0.15
Flow (From)	DA56 Imp	21,456.674	12.00	7.05
Flow (In)	UGB56	21,993.366	12.00	7.19

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB56 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB56'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA56 Perv
<Catchment to Outflow Node>	DA56 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA56 Perv	1,514.357	12.00	0.51
Flow (From)	DA56 Imp	34,871.718	12.00	11.07
Flow (In)	UGB56	36,386.075	12.00	11.59

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB56 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB56'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA56 Perv
<Catchment to Outflow Node>	DA56 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA56 Perv	4,211.164	12.00	1.48
Flow (From)	DA56 Imp	62,659.919	12.00	19.26
Flow (In)	UGB56	66,871.083	12.00	20.74

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB57
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
111.10	0.00	0.000	0.000	0.00	0.00	0.00
111.35	0.00	1,184.722	0.000	0.00	0.00	13.16
111.60	0.00	2,381.965	0.000	0.00	0.00	26.47
111.85	0.00	4,919.270	0.000	0.00	0.00	54.66
112.10	0.00	7,434.456	0.000	0.00	0.00	82.61
112.35	0.00	9,905.804	0.000	0.00	0.00	110.06
112.50	0.00	11,367.155	0.000	0.00	0.00	126.30
112.60	0.07	12,328.717	0.000	0.00	0.07	137.06
112.85	0.47	14,680.337	0.000	0.00	0.47	163.58
113.10	1.05	16,953.187	0.000	0.00	1.05	189.41
113.35	1.76	19,111.212	0.000	0.00	1.76	214.11
113.60	2.60	21,130.277	0.000	0.00	2.60	237.38
113.85	3.53	22,904.861	0.000	0.00	3.53	258.03
114.10	4.55	24,356.565	0.000	0.00	4.55	275.18
114.35	5.66	25,701.115	0.000	0.00	5.66	291.23
114.60	6.85	27,058.762	0.000	0.00	6.85	307.50

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB57 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.94 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	112.27 ft
Volume (Peak)	9,148.745 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,144.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	9,149.000 ft³
Volume (Unrouted)	5.000 ft³
Error (Mass Balance)	0.1 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB57 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.66 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.09 ft³/s	Time to Peak (Flow, Outlet)	17.50 hours

Elevation (Water Surface, Peak)	112.61 ft
Volume (Peak)	12,455.421 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	14,866.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,498.000 ft³
Volume (Retained)	11,369.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB57 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.23 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.95 ft³/s	Time to Peak (Flow, Outlet)	12.65 hours

Elevation (Water Surface, Peak)	113.06 ft
Volume (Peak)	16,566.536 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	26,882.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	15,513.000 ft³
Volume (Retained)	11,369.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB57 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB57'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA57 Perv
<Catchment to Outflow Node>	DA57 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA57 Perv	153.427	12.00	0.04
Flow (From)	DA57 Imp	8,990.428	12.00	2.90
Flow (In)	UGB57	9,143.855	12.00	2.94

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB57 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB57'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA57 Perv
<Catchment to Outflow Node>	DA57 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA57 Perv	432.832	12.00	0.14
Flow (From)	DA57 Imp	14,433.297	12.00	4.52
Flow (In)	UGB57	14,866.129	12.00	4.66

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB57 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB57'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA57 Perv
<Catchment to Outflow Node>	DA57 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA57 Perv	1,203.449	12.00	0.41
Flow (From)	DA57 Imp	25,678.312	12.00	7.82
Flow (In)	UGB57	26,881.761	12.00	8.23

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB59
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	104.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	15.05	105.05	17,807.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	5.26	0.00	0.00
Pond Outflow...	14.95	0.69	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	34,841.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	25,381.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	34,841.000 ft³
Volume (Total Out ICPM)	25,381.000 ft³
Volume (Ending)	9,460.000 ft³
Elevation (Ending)	104.53 ft
Difference	1.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB59
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	104.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	15.50	105.91	31,511.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	10.45	0.00	0.00
Pond Outflow...	12.80	2.59	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	67,195.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	63,221.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	67,195.000 ft³
Volume (Total Out ICPM)	63,221.000 ft³
Volume (Ending)	10,177.000 ft³
Elevation (Ending)	104.58 ft
Difference	-6,203.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	9.2 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB59
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	104.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.70	106.73	44,625.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	23.13	0.00	0.00
Pond Outflow...	12.50	8.81	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	140,057.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	133,167.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	140,057.000 ft³
Volume (Total Out ICPM)	133,167.000 ft³
Volume (Ending)	10,327.000 ft³
Elevation (Ending)	104.58 ft
Difference	-3,437.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	2.5 %

Basin Routings Current Rainfall

Subsection: Pond Infiltration Calculations
Label: UGB6 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
94.00	1,062.7	0.00
94.25	1,099.1	0.01
94.50	1,136.1	0.01
94.75	1,173.5	0.01
95.00	1,211.4	0.01
95.25	1,249.8	0.01
95.50	1,288.7	0.01
95.75	1,328.2	0.02
96.00	1,368.1	0.02
96.25	1,408.5	0.02
96.50	1,449.4	0.02
96.75	1,490.8	0.02
97.00	1,532.8	0.02
97.25	1,575.2	0.02
97.45	1,609.5	0.02
97.50	1,618.1	0.02

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB6
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	96.65	2,091.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	3.09	0.00	0.00
Infiltration...	12.15	0.00	0.00	0.00
Pond Outflow...	12.10	1.78	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	10,529.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,705.000	Forward
Pond Outflow...	0.000	Reverse	9,376.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	10,529.000 ft³
Volume (Total Out ICPM)	11,081.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	-552.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	5.0 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB6
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.05	97.45	2,605.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	5.27	0.00	0.00
Infiltration...	12.05	0.00	0.00	0.00
Pond Outflow...	12.05	4.23	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	18,181.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,820.000	Forward
Pond Outflow...	0.000	Reverse	16,600.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	18,181.000 ft³
Volume (Total Out ICPM)	18,419.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	-239.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	1.3 %

Basin Routings Current Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB6
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	11.90	97.50	2,638.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.00	10.02	0.00	0.00
Infiltration...	11.90	0.00	0.00	0.00
Pond Outflow...	11.90	4.75	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	34,873.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,930.000	Forward
Pond Outflow...	0.000	Reverse	29,873.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	34,873.000 ft³
Volume (Total Out ICPM)	31,803.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	3,069.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	8.8 %

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB60
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
111.10	0.00	0.000	0.000	0.00	0.00	0.00
111.35	0.00	1,184.722	0.000	0.00	0.00	13.16
111.60	0.00	2,381.965	0.000	0.00	0.00	26.47
111.85	0.00	4,919.270	0.000	0.00	0.00	54.66
112.10	0.00	7,434.456	0.000	0.00	0.00	82.61
112.35	0.38	9,905.804	0.000	0.00	0.38	110.44
112.60	1.06	12,328.717	0.000	0.00	1.06	138.05
112.85	1.95	14,680.337	0.000	0.00	1.95	165.06
113.10	3.00	16,953.187	0.000	0.00	3.00	191.37
113.35	4.19	19,111.212	0.000	0.00	4.19	216.54
113.60	5.51	21,130.277	0.000	0.00	5.51	240.29
113.85	6.95	22,904.861	0.000	0.00	6.95	261.44
114.10	8.49	24,356.565	0.000	0.00	8.49	279.11
114.35	10.13	25,701.115	0.000	0.00	10.13	295.69
114.60	11.86	27,058.762	0.000	0.00	11.86	312.51

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB60 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.66 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.31 ft³/s	Time to Peak (Flow, Outlet)	13.25 hours

Elevation (Water Surface, Peak)	112.31 ft
Volume (Peak)	9,489.101 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	14,569.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,134.000 ft³
Volume (Retained)	7,434.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB60 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.47 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.35 ft³/s	Time to Peak (Flow, Outlet)	12.35 hours

Elevation (Water Surface, Peak)	112.68 ft
Volume (Peak)	13,111.101 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	23,925.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	16,491.000 ft³
Volume (Retained)	7,434.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB60 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	13.38 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	4.50 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	113.41 ft
Volume (Peak)	19,591.731 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	43,811.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	36,377.000 ft³
Volume (Retained)	7,434.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB60 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB60'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA60 Imp
<Catchment to Outflow Node>	DA60 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA60 Imp	14,127.815	12.00	4.56
Flow (From)	DA60 Perv	441.134	12.05	0.10
Flow (In)	UGB60	14,568.949	12.00	4.66

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB60 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB60'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA60 Imp
<Catchment to Outflow Node>	DA60 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA60 Imp	22,680.895	12.00	7.11
Flow (From)	DA60 Perv	1,244.407	12.00	0.36
Flow (In)	UGB60	23,925.302	12.00	7.47

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB60 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB60'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA60 Imp
<Catchment to Outflow Node>	DA60 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA60 Imp	40,351.634	12.00	12.29
Flow (From)	DA60 Perv	3,459.829	12.00	1.08
Flow (In)	UGB60	43,811.463	12.00	13.38

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB61
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
107.75	0.00	0.000	0.000	0.00	0.00	0.00
108.00	0.00	270.754	0.000	0.00	0.00	3.01
108.25	0.00	548.789	0.000	0.00	0.00	6.10
108.50	0.16	1,119.000	0.000	0.00	0.16	12.59
108.75	0.58	1,689.143	0.000	0.00	0.58	19.34
109.00	1.08	2,254.994	0.000	0.00	1.08	26.14
109.25	1.37	2,815.214	0.000	0.00	1.37	32.65
109.50	1.61	3,365.340	0.000	0.00	1.61	39.00
109.75	1.81	3,903.410	0.000	0.00	1.81	45.19
110.00	2.00	4,422.140	0.000	0.00	2.00	51.13
110.25	2.17	4,915.992	0.000	0.00	2.17	56.79
110.50	2.33	5,362.802	0.000	0.00	2.33	61.91
110.75	2.47	5,745.397	0.000	0.00	2.47	66.31
111.00	2.61	6,110.460	0.000	0.00	2.61	70.51
111.25	2.74	6,483.378	0.000	0.00	2.74	74.78

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB61 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.86 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.85 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	108.89 ft
Volume (Peak)	1,998.601 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,093.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,544.000 ft³
Volume (Retained)	549.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB61 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.91 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.29 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	109.18 ft
Volume (Peak)	2,650.903 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,693.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	9,144.000 ft³
Volume (Retained)	549.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB61 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.10 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.90 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	109.86 ft
Volume (Peak)	4,143.631 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	17,249.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	16,700.000 ft³
Volume (Retained)	549.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB61 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB61'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA61 Imp
<Catchment to Outflow Node>	DA61 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA61 Imp	5,977.939	12.00	1.84
Flow (From)	DA61 Perv	115.135	12.05	0.03
Flow (In)	UGB61	6,093.074	12.00	1.86

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB61 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB61'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA61 Imp
<Catchment to Outflow Node>	DA61 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA61 Imp	9,368.166	12.00	2.83
Flow (From)	DA61 Perv	324.765	12.05	0.09
Flow (In)	UGB61	9,692.931	12.00	2.91

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB61 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB61'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA61 Imp
<Catchment to Outflow Node>	DA61 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA61 Imp	16,346.254	12.00	4.85
Flow (From)	DA61 Perv	902.877	12.05	0.27
Flow (In)	UGB61	17,249.131	12.00	5.10

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB62
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
108.00	0.00	0.000	0.000	0.00	0.00	0.00
108.25	0.00	1,424.862	0.000	0.00	0.00	15.83
108.50	0.00	2,863.043	0.000	0.00	0.00	31.81
108.66	0.00	4,820.718	0.000	0.00	0.00	53.56
108.75	0.02	5,918.493	0.000	0.00	0.02	65.78
109.00	0.29	8,945.385	0.000	0.00	0.29	99.68
109.25	0.77	11,917.312	0.000	0.00	0.77	133.18
109.50	1.20	14,828.862	0.000	0.00	1.20	165.96
109.75	1.46	17,652.250	0.000	0.00	1.46	197.60
110.00	1.69	20,378.588	0.000	0.00	1.69	228.11
110.05	1.73	20,906.095	0.000	0.00	1.73	234.02
110.25	2.15	22,964.141	0.000	0.00	2.15	257.31
110.50	2.97	25,379.894	0.000	0.00	2.97	284.97
110.75	3.98	27,498.172	0.000	0.00	3.98	309.52
111.00	5.16	29,224.392	0.000	0.00	5.16	329.87
111.25	6.47	30,819.054	0.000	0.00	6.47	348.90
111.50	7.90	32,427.611	0.000	0.00	7.90	368.20

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB62 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.99 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.49 ft³/s	Time to Peak (Flow, Outlet)	12.85 hours

Elevation (Water Surface, Peak)	109.10 ft
Volume (Peak)	10,183.081 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	16,326.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	11,257.000 ft³
Volume (Retained)	5,069.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB62 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.76 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.16 ft³/s	Time to Peak (Flow, Outlet)	12.45 hours

Elevation (Water Surface, Peak)	109.48 ft
Volume (Peak)	14,585.614 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	25,873.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	20,779.000 ft³
Volume (Retained)	5,094.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB62 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	13.52 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.20 ft³/s	Time to Peak (Flow, Outlet)	12.40 hours

Elevation (Water Surface, Peak)	110.27 ft
Volume (Peak)	23,120.078 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	45,817.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	40,690.000 ft³
Volume (Retained)	5,127.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB62 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB62'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA62 Imp
<Catchment to Outflow Node>	DA62 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA62 Imp	16,095.725	12.00	4.96
Flow (From)	DA62 Perv	230.199	12.05	0.05
Flow (In)	UGB62	16,325.925	12.00	4.99

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB62 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB62'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA62 Imp
<Catchment to Outflow Node>	DA62 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA62 Imp	25,223.851	12.00	7.62
Flow (From)	DA62 Perv	649.317	12.05	0.17
Flow (In)	UGB62	25,873.168	12.00	7.76

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB62 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB62'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA62 Imp
<Catchment to Outflow Node>	DA62 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA62 Imp	44,012.247	12.00	13.08
Flow (From)	DA62 Perv	1,805.189	12.05	0.51
Flow (In)	UGB62	45,817.436	12.00	13.52

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB63
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.00	0.00	0.000	0.000	0.00	0.00	0.00
104.25	0.00	695.845	0.000	0.00	0.00	7.73
104.50	0.00	1,399.883	0.000	0.00	0.00	15.55
104.75	0.00	2,886.608	0.000	0.00	0.00	32.07
105.00	0.00	4,361.358	0.000	0.00	0.00	48.46
105.25	0.31	5,811.564	0.000	0.00	0.31	64.88
105.50	0.88	7,234.485	0.000	0.00	0.88	81.26
105.75	1.62	8,616.889	0.000	0.00	1.62	97.36
106.00	2.49	9,954.353	0.000	0.00	2.49	113.09
106.25	4.14	11,225.949	0.000	0.00	4.14	128.87
106.50	6.43	12,417.535	0.000	0.00	6.43	144.40
106.75	9.17	13,467.664	0.000	0.00	9.17	158.82
107.00	12.29	14,330.534	0.000	0.00	12.29	171.52
107.25	15.74	15,132.099	0.000	0.00	15.74	183.88
107.50	19.49	15,942.433	0.000	0.00	19.49	196.63

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB63 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.54 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	0.63 ft³/s	Time to Peak (Flow, Outlet)	12.35 hours

Elevation (Water Surface, Peak)	105.39 ft
Volume (Peak)	6,612.231 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,497.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,136.000 ft³
Volume (Retained)	4,361.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB63 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.45 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.80 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	105.80 ft
Volume (Peak)	8,894.937 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	18,017.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	13,656.000 ft³
Volume (Retained)	4,361.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB63 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.35 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	5.02 ft³/s	Time to Peak (Flow, Outlet)	12.05 hours

Elevation (Water Surface, Peak)	106.35 ft
Volume (Peak)	11,696.523 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	31,438.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	27,076.000 ft³
Volume (Retained)	4,361.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB63 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB63'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA63 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA63 Imp	11,496.987	12.00	3.54
Flow (In)	UGB63	11,496.987	12.00	3.54

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB63 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB63'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA63 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA63 Imp	18,017.186	12.00	5.45
Flow (In)	UGB63	18,017.186	12.00	5.45

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB63 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB63'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA63 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA63 Imp	31,437.671	12.00	9.35
Flow (In)	UGB63	31,437.671	12.00	9.35

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB7
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.00	0.00	0.000	0.053	0.00	0.00	0.00
99.10	0.00	92.173	0.053	0.03	0.03	1.05
99.20	0.00	185.130	0.054	0.03	0.03	2.08
99.30	0.00	278.874	0.054	0.03	0.03	3.13
99.40	0.00	373.409	0.054	0.03	0.03	4.18
99.50	0.00	468.737	0.055	0.03	0.03	5.24
99.60	0.00	662.551	0.055	0.03	0.03	7.39
99.65	0.00	759.015	0.056	0.03	0.03	8.46
99.70	0.01	855.479	0.056	0.03	0.04	9.54
99.80	0.06	1,048.888	0.056	0.03	0.09	11.74
99.90	0.16	1,241.172	0.057	0.03	0.19	13.98
100.00	0.30	1,433.571	0.057	0.03	0.33	16.26
100.10	0.48	1,625.265	0.058	0.03	0.51	18.57
100.20	0.68	1,815.794	0.058	0.03	0.71	20.89
100.30	0.90	2,006.312	0.059	0.03	0.93	23.22
100.40	1.08	2,195.303	0.059	0.03	1.11	25.51
100.50	1.21	2,383.908	0.060	0.03	1.24	27.73
100.60	1.32	2,571.175	0.060	0.03	1.35	29.92
100.70	1.42	2,756.778	0.061	0.03	1.45	32.08
100.80	1.52	2,941.692	0.061	0.03	1.55	34.23
100.90	1.61	3,124.512	0.062	0.03	1.64	36.36
101.00	1.69	3,306.155	0.062	0.03	1.73	38.46
101.10	1.78	3,485.580	0.062	0.03	1.81	40.54
101.20	1.85	3,662.539	0.063	0.03	1.88	42.58
101.30	1.93	3,837.719	0.063	0.03	1.96	44.60
101.40	2.00	4,009.798	0.064	0.03	2.03	46.59
101.50	2.07	4,179.316	0.064	0.03	2.10	48.54
101.60	2.14	4,344.753	0.065	0.03	2.17	50.44

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB7 Storm Event: 2yr current
Scenario: 2YR

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.70	2.20	4,505.839	0.065	0.03	2.23	52.30
101.80	2.26	4,662.372	0.066	0.03	2.30	54.10
101.82	2.28	4,692.365	0.066	0.03	2.31	54.45
101.90	2.39	4,812.335	0.066	0.03	2.43	55.90
102.00	2.61	4,952.533	0.067	0.03	2.65	57.68
102.10	2.89	5,081.521	0.067	0.03	2.92	59.38
102.20	3.20	5,206.308	0.068	0.03	3.24	61.09
102.30	3.55	5,326.802	0.068	0.03	3.59	62.78
102.40	3.94	5,446.534	0.069	0.03	3.97	64.49
102.50	4.35	5,567.156	0.069	0.04	4.38	66.24
102.60	4.78	5,688.670	0.070	0.04	4.82	68.03
102.70	5.25	5,811.080	0.071	0.04	5.28	69.85
102.75	5.49	5,872.622	0.071	0.04	5.52	70.77

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB7 (IN) Storm Event: 2yr current
Scenario: 2YR

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.46 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	0.51 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	100.12 ft
Volume (Peak)	1,658.112 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,839.000 ft³
Volume (Total Infiltration)	2,540.000 ft³
Volume (Total Outlet Outflow)	2,298.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB7 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.45 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	1.17 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	100.47 ft
Volume (Peak)	2,323.962 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	8,173.000 ft³
Volume (Total Infiltration)	2,877.000 ft³
Volume (Total Outlet Outflow)	5,296.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB7 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.62 ft³/s	Time to Peak (Flow, In)	12.00 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	1.88 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	101.24 ft
Volume (Peak)	3,728.601 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	15,558.000 ft³
Volume (Total Infiltration)	3,139.000 ft³
Volume (Total Outlet Outflow)	12,419.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB7 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB7'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA7 Imp
<Catchment to Outflow Node>	DA7 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA7 Imp	4,436.085	12.00	1.38
Flow (From)	DA7 Perv	402.782	12.05	0.09
Flow (In)	UGB7	4,838.866	12.00	1.46

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB7 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB7'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA7 Imp
<Catchment to Outflow Node>	DA7 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA7 Imp	7,037.265	12.00	2.14
Flow (From)	DA7 Perv	1,136.120	12.05	0.32
Flow (In)	UGB7	8,173.384	12.00	2.45

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB7 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB7'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA7 Imp
<Catchment to Outflow Node>	DA7 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA7 Imp	12,399.659	12.00	3.69
Flow (From)	DA7 Perv	3,158.601	12.05	0.93
Flow (In)	UGB7	15,558.261	12.00	4.62

Basin Routings Current Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB9
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.30	0.00	0.000	0.000	0.00	0.00	0.00
100.55	0.00	137.724	0.000	0.00	0.00	1.53
100.80	0.00	279.653	0.000	0.00	0.00	3.11
101.05	0.00	568.306	0.000	0.00	0.00	6.31
101.30	0.00	857.538	0.000	0.00	0.00	9.53
101.55	0.56	1,145.313	0.000	0.00	0.56	13.29
101.80	1.59	1,430.932	0.000	0.00	1.59	17.49
102.05	2.92	1,712.245	0.000	0.00	2.92	21.95
102.30	4.50	1,988.238	0.000	0.00	4.50	26.59
102.55	6.29	2,255.355	0.000	0.00	6.29	31.35
102.80	8.27	2,510.788	0.000	0.00	8.27	36.16
103.05	10.42	2,743.545	0.000	0.00	10.42	40.90
103.30	12.73	2,944.999	0.000	0.00	12.73	45.45
103.55	15.19	3,138.583	0.000	0.00	15.19	50.06
103.80	17.79	3,336.947	0.000	0.00	17.79	54.87

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB9 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.75 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	1.38 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	101.75 ft
Volume (Peak)	1,372.690 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	5,530.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	4,673.000 ft³
Volume (Retained)	858.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB9 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.87 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	2.41 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	101.95 ft
Volume (Peak)	1,605.515 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,229.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	8,371.000 ft³
Volume (Retained)	858.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB9 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.27 ft³/s	Time to Peak (Flow, In)	12.00 hours
Flow (Peak Outlet)	4.66 ft³/s	Time to Peak (Flow, Outlet)	12.00 hours

Elevation (Water Surface, Peak)	102.32 ft
Volume (Peak)	2,011.849 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	17,232.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	16,375.000 ft³
Volume (Retained)	858.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB9 (IN)
Scenario: 2YR

Return Event: 2 years
Storm Event: 2yr current

Summary for Hydrograph Addition at 'UGB9'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA9 Imp
<Catchment to Outflow Node>	DA9 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA9 Imp	5,242.350	12.00	1.69
Flow (From)	DA9 Perv	287.704	12.05	0.07
Flow (In)	UGB9	5,530.055	12.00	1.75

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB9 (IN)
Scenario: 10YR

Return Event: 10 years
Storm Event: 10 yr current

Summary for Hydrograph Addition at 'UGB9'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA9 Imp
<Catchment to Outflow Node>	DA9 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA9 Imp	8,416.946	12.00	2.63
Flow (From)	DA9 Perv	811.623	12.00	0.24
Flow (In)	UGB9	9,228.569	12.00	2.87

Basin Routings Current Rainfall

Subsection: Pond Inflow Summary
Label: UGB9 (IN)
Scenario: 100YR

Return Event: 100 years
Storm Event: 100yr current

Summary for Hydrograph Addition at 'UGB9'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA9 Imp
<Catchment to Outflow Node>	DA9 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA9 Imp	14,975.588	12.00	4.55
Flow (From)	DA9 Perv	2,256.585	12.00	0.72
Flow (In)	UGB9	17,232.173	12.00	5.27

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Basin Routings Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft^3)	Time to Peak (hours)	Peak Flow (ft^3/s)
PDA-6 Imp (Plainsboro)	2YR Projected	2	169,774.000	12.20	35.11
PDA-6 Imp (Plainsboro)	10YR Projected	10	275,672.000	12.20	56.03
PDA-6 Imp (Plainsboro)	100YR Projected	100	520,096.000	12.20	104.11
PDA-6 PER (Plainsboro)	2YR Projected	2	4,882.000	12.20	1.05
PDA-6 PER (Plainsboro)	10YR Projected	10	12,278.000	12.20	2.90
PDA-6 PER (Plainsboro)	100YR Projected	100	33,241.000	12.20	7.91
Future Imp Road-Basin 6 (S Brunswick)	2YR Projected	2	3,992.000	12.10	1.22
Future Imp Road-Basin 6 (S Brunswick)	10YR Projected	10	6,482.000	12.10	1.95
Future Imp Road-Basin 6 (S Brunswick)	100YR Projected	100	12,228.000	12.10	3.61
Ex DA-6 Perv (S Brunswick)	2YR Projected	2	8,192.000	12.20	1.59
Ex DA-6 Perv (S Brunswick)	10YR Projected	10	24,787.000	12.15	6.24
Ex DA-6 Perv (S Brunswick)	100YR Projected	100	76,859.000	12.15	20.62
DA28 Perv	2YR Projected	2	2,241.000	12.15	0.56
DA28 Perv	10YR Projected	10	6,274.000	12.15	1.82
DA28 Perv	100YR Projected	100	18,414.000	12.15	5.41
DA28 Imp	2YR Projected	2	11,605.000	12.10	3.63
DA28 Imp	10YR Projected	10	19,060.000	12.10	5.82
DA28 Imp	100YR Projected	100	36,289.000	12.10	10.83
DA30 Imp	2YR Projected	2	17,241.000	12.10	5.50
DA30 Imp	10YR Projected	10	28,641.000	12.10	8.88
DA30 Imp	100YR Projected	100	55,034.000	12.10	16.59
DA30 Perv	2YR Projected	2	6,028.000	12.15	1.67
DA30 Perv	10YR Projected	10	15,459.000	12.15	4.58
DA30 Perv	100YR Projected	100	42,496.000	12.15	12.44
DA45 Imp	2YR Projected	2	22,607.000	12.10	6.88
DA45 Imp	10YR Projected	10	37,558.000	12.10	11.11
DA45 Imp	100YR Projected	100	72,169.000	12.10	20.78
DA45 Perv	2YR Projected	2	1,909.000	12.15	0.49
DA45 Perv	10YR Projected	10	5,344.000	12.10	1.64
DA45 Perv	100YR Projected	100	15,684.000	12.10	4.97
DA57 Imp	2YR Projected	2	10,497.000	12.10	3.35
DA57 Imp	10YR Projected	10	17,435.000	12.10	5.39
DA57 Imp	100YR Projected	100	33,498.000	12.10	10.08

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA56 Imp	2YR Projected	2	25,169.000	12.10	8.17
DA56 Imp	10YR Projected	10	42,291.000	12.10	13.27
DA56 Imp	100YR Projected	100	82,016.000	12.10	24.91
DA62 Perv	2YR Projected	2	332.000	12.15	0.08
DA62 Perv	10YR Projected	10	929.000	12.15	0.26
DA62 Perv	100YR Projected	100	2,728.000	12.15	0.79
DA62 Imp	2YR Projected	2	18,629.000	12.10	5.69
DA62 Imp	10YR Projected	10	30,247.000	12.10	9.07
DA62 Imp	100YR Projected	100	57,065.000	12.10	16.84
DA63 Imp	2YR Projected	2	13,306.000	12.10	4.06
DA63 Imp	10YR Projected	10	21,606.000	12.10	6.48
DA63 Imp	100YR Projected	100	40,762.000	12.10	12.03
DA1 Perv Basin	2YR Projected	2	1,062.000	12.10	0.35
DA1 Perv Basin	10YR Projected	10	2,620.000	12.10	0.90
DA1 Perv Basin	100YR Projected	100	6,991.000	12.10	2.38
EDA3 Perv	2YR Projected	2	11,468.000	12.10	3.14
EDA3 Perv	10YR Projected	10	31,364.000	12.10	9.93
EDA3 Perv	100YR Projected	100	90,496.000	12.10	29.27
DA12A Imp	2YR Projected	2	4,790.000	12.10	1.41
DA12A Imp	10YR Projected	10	7,777.000	12.10	2.24
DA12A Imp	100YR Projected	100	14,673.000	12.10	4.17
DA12A Perv	2YR Projected	2	6,665.000	12.20	1.44
DA12A Perv	10YR Projected	10	18,226.000	12.20	4.49
DA12A Perv	100YR Projected	100	52,585.000	12.15	13.23
DA35 Imp	2YR Projected	2	1,934.000	12.10	0.60
DA35 Imp	10YR Projected	10	3,177.000	12.10	0.96
DA35 Imp	100YR Projected	100	6,048.000	12.10	1.79
DA35 Perv	2YR Projected	2	1,909.000	12.10	0.54
DA35 Perv	10YR Projected	10	5,343.000	12.10	1.76
DA35 Perv	100YR Projected	100	15,684.000	12.10	5.27
DA59 Imp	2YR Projected	2	13,150.000	12.10	4.04
DA59 Imp	10YR Projected	10	21,598.000	12.10	6.47
DA59 Imp	100YR Projected	100	41,122.000	12.10	12.06
DA59 Perv	2YR Projected	2	9,284.000	12.15	2.43
DA59 Perv	10YR Projected	10	21,029.000	12.15	5.68
DA59 Perv	100YR Projected	100	52,354.000	12.15	13.90
DA58 Imp	2YR Projected	2	19,610.000	12.10	6.21
DA58 Imp	10YR Projected	10	32,580.000	12.10	10.02
DA58 Imp	100YR Projected	100	62,604.000	12.10	18.72
DA58 Perv	2YR Projected	2	6,852.000	12.15	1.73
DA58 Perv	10YR Projected	10	16,310.000	12.15	4.35
DA58 Perv	100YR Projected	100	42,282.000	12.15	11.23
DA51 Perv	2YR Projected	2	2,258.000	12.15	0.53

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA51 Perv	10YR Projected	10	6,039.000	12.15	1.61
DA51 Perv	100YR Projected	100	17,136.000	12.15	4.67
DA51 Imp	2YR Projected	2	3,932.000	12.10	1.21
DA51 Imp	10YR Projected	10	6,458.000	12.10	1.94
DA51 Imp	100YR Projected	100	12,296.000	12.10	3.62
DA56 Perv	2YR Projected	2	774.000	12.10	0.24
DA56 Perv	10YR Projected	10	2,167.000	12.10	0.76
DA56 Perv	100YR Projected	100	6,363.000	12.10	2.24
DA57 Perv	2YR Projected	2	221.000	12.10	0.06
DA57 Perv	10YR Projected	10	620.000	12.10	0.21
DA57 Perv	100YR Projected	100	1,819.000	12.10	0.62
DA26 Imp	2YR Projected	2	19,861.000	12.10	6.06
DA26 Imp	10YR Projected	10	32,995.000	12.10	9.79
DA26 Imp	100YR Projected	100	63,402.000	12.10	18.32
DA26 Perv	2YR Projected	2	3,292.000	12.15	0.76
DA26 Perv	10YR Projected	10	9,217.000	12.15	2.52
DA26 Perv	100YR Projected	100	27,052.000	12.15	7.61
DA60 Imp	2YR Projected	2	16,495.000	12.10	5.26
DA60 Imp	10YR Projected	10	27,398.000	12.10	8.48
DA60 Imp	100YR Projected	100	52,640.000	12.10	15.84
DA60 Perv	2YR Projected	2	636.000	12.10	0.17
DA60 Perv	10YR Projected	10	1,781.000	12.10	0.56
DA60 Perv	100YR Projected	100	5,228.000	12.10	1.68
DA47 Imp	2YR Projected	2	6,834.000	12.10	2.10
DA47 Imp	10YR Projected	10	11,224.000	12.10	3.36
DA47 Imp	100YR Projected	100	21,369.000	12.10	6.26
DA47- Perv	2YR Projected	2	830.000	12.20	0.18
DA47- Perv	10YR Projected	10	2,324.000	12.15	0.60
DA47- Perv	100YR Projected	100	6,822.000	12.15	1.83
DA46 Imp	2YR Projected	2	3,998.000	12.10	1.25
DA46 Imp	10YR Projected	10	6,565.000	12.10	2.00
DA46 Imp	100YR Projected	100	12,500.000	12.10	3.73
DA46 Perv	2YR Projected	2	360.000	12.15	0.09
DA46 Perv	10YR Projected	10	1,007.000	12.10	0.30
DA46 Perv	100YR Projected	100	2,955.000	12.10	0.92
DA50 Perv	2YR Projected	2	332.000	12.15	0.08
DA50 Perv	10YR Projected	10	929.000	12.15	0.27
DA50 Perv	100YR Projected	100	2,728.000	12.15	0.80
DA50 Imp	2YR Projected	2	4,642.000	12.10	1.45
DA50 Imp	10YR Projected	10	7,624.000	12.10	2.32
DA50 Imp	100YR Projected	100	14,515.000	12.10	4.33
DA15 Imp	2YR Projected	2	11,177.000	12.10	3.41
DA15 Imp	10YR Projected	10	18,148.000	12.10	5.43

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA15 Imp	100YR Projected	100	34,240.000	12.10	10.09
DA15 Perv	2YR Projected	2	2,269.000	12.10	0.61
DA15 Perv	10YR Projected	10	6,351.000	12.10	2.03
DA15 Perv	100YR Projected	100	18,641.000	12.10	6.10
DA16 Perv	2YR Projected	2	2,407.000	12.10	0.63
DA16 Perv	10YR Projected	10	6,738.000	12.10	2.09
DA16 Perv	100YR Projected	100	19,776.000	12.10	6.32
DA16 Imp	2YR Projected	2	19,083.000	12.10	5.94
DA16 Imp	10YR Projected	10	31,342.000	12.10	9.52
DA16 Imp	100YR Projected	100	59,674.000	12.10	17.73
DA55 Imp	2YR Projected	2	26,956.000	12.10	8.42
DA55 Imp	10YR Projected	10	44,266.000	12.10	13.49
DA55 Imp	100YR Projected	100	84,272.000	12.10	25.11
DA55 Perv	2YR Projected	2	1,613.000	12.10	0.50
DA55 Perv	10YR Projected	10	3,980.000	12.10	1.31
DA55 Perv	100YR Projected	100	10,617.000	12.10	3.48
DA25 Imp	2YR Projected	2	24,108.000	12.10	6.92
DA25 Imp	10YR Projected	10	40,051.000	12.10	11.18
DA25 Imp	100YR Projected	100	76,959.000	12.10	20.93
DA25 Perv	2YR Projected	2	4,094.000	12.20	0.85
DA25 Perv	10YR Projected	10	11,461.000	12.20	2.79
DA25 Perv	100YR Projected	100	33,640.000	12.20	8.36
DA32 Imp	2YR Projected	2	29,402.000	12.10	9.20
DA32 Imp	10YR Projected	10	48,287.000	12.10	14.75
DA32 Imp	100YR Projected	100	91,933.000	12.10	27.46
DA32 Perv	2YR Projected	2	611.000	12.10	0.21
DA32 Perv	10YR Projected	10	1,708.000	12.10	0.64
DA32 Perv	100YR Projected	100	5,007.000	12.10	1.84
DA34 Perv	2YR Projected	2	360.000	12.10	0.10
DA34 Perv	10YR Projected	10	1,007.000	12.10	0.34
DA34 Perv	100YR Projected	100	2,955.000	12.10	1.01
DA34 Imp	2YR Projected	2	4,513.000	12.10	1.41
DA34 Imp	10YR Projected	10	7,412.000	12.10	2.26
DA34 Imp	100YR Projected	100	14,112.000	12.10	4.20
DA33 Imp	2YR Projected	2	4,384.000	12.10	1.37
DA33 Imp	10YR Projected	10	7,201.000	12.10	2.19
DA33 Imp	100YR Projected	100	13,709.000	12.10	4.09
DA33 Perv	2YR Projected	2	249.000	12.10	0.08
DA33 Perv	10YR Projected	10	697.000	12.10	0.26
DA33 Perv	100YR Projected	100	2,047.000	12.10	0.75
DA44 Imp	2YR Projected	2	2,542.000	12.10	0.83
DA44 Imp	10YR Projected	10	4,271.000	12.10	1.34
DA44 Imp	100YR Projected	100	8,282.000	12.10	2.52

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA44 Perv	2YR Projected	2	84.000	12.10	0.03
DA44 Perv	10YR Projected	10	234.000	12.10	0.09
DA44 Perv	100YR Projected	100	684.000	12.10	0.25
DA43 Imp	2YR Projected	2	1,730.000	12.10	0.53
DA43 Imp	10YR Projected	10	2,809.000	12.10	0.84
DA43 Imp	100YR Projected	100	5,299.000	12.05	1.56
DA43 Perv	2YR Projected	2	663.000	12.10	0.20
DA43 Perv	10YR Projected	10	1,607.000	12.10	0.52
DA43 Perv	100YR Projected	100	4,226.000	12.10	1.36
DA42 Perv	2YR Projected	2	608.000	12.10	0.18
DA42 Perv	10YR Projected	10	1,703.000	12.10	0.57
DA42 Perv	100YR Projected	100	5,000.000	12.10	1.71
DA42 Imp	2YR Projected	2	6,562.000	12.10	2.17
DA42 Imp	10YR Projected	10	11,153.000	12.10	3.55
DA42 Imp	100YR Projected	100	21,832.000	12.10	6.70
DA36 Imp	2YR Projected	2	6,787.000	12.10	2.08
DA36 Imp	10YR Projected	10	11,020.000	12.10	3.31
DA36 Imp	100YR Projected	100	20,790.000	12.10	6.14
DA36 Perv	2YR Projected	2	3,149.000	12.10	1.09
DA36 Perv	10YR Projected	10	7,632.000	12.10	2.72
DA36 Perv	100YR Projected	100	20,069.000	12.10	6.99
DA53 Imp	2YR Projected	2	3,998.000	12.10	1.27
DA53 Imp	10YR Projected	10	6,641.000	12.10	2.05
DA53 Imp	100YR Projected	100	12,760.000	12.10	3.84
DA53 Perv	2YR Projected	2	1,024.000	12.15	0.27
DA53 Perv	10YR Projected	10	2,865.000	12.15	0.84
DA53 Perv	100YR Projected	100	8,410.000	12.10	2.49
DA52 Imp	2YR Projected	2	9,285.000	12.10	2.90
DA52 Imp	10YR Projected	10	15,249.000	12.10	4.65
DA52 Imp	100YR Projected	100	29,032.000	12.10	8.66
DA52 Perv	2YR Projected	2	2,269.000	12.15	0.59
DA52 Perv	10YR Projected	10	6,350.000	12.15	1.86
DA52 Perv	100YR Projected	100	18,638.000	12.15	5.49
DA20 Imp	2YR Projected	2	8,897.000	12.10	2.78
DA20 Imp	10YR Projected	10	14,611.000	12.10	4.45
DA20 Imp	100YR Projected	100	27,819.000	12.10	8.29
DA20 Perv	2YR Projected	2	1,106.000	12.10	0.31
DA20 Perv	10YR Projected	10	3,098.000	12.10	1.02
DA20 Perv	100YR Projected	100	9,092.000	12.10	3.05
DA17 Imp	2YR Projected	2	10,620.000	12.10	3.39
DA17 Imp	10YR Projected	10	17,642.000	12.10	5.46
DA17 Imp	100YR Projected	100	33,898.000	12.10	10.20
DA17 Perv	2YR Projected	2	332.000	12.10	0.10

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA17 Perv	10YR Projected	10	929.000	12.10	0.31
DA17 Perv	100YR Projected	100	2,728.000	12.10	0.93
DA22 Imp	2YR Projected	2	10,372.000	12.10	3.31
DA22 Imp	10YR Projected	10	17,229.000	12.10	5.34
DA22 Imp	100YR Projected	100	33,102.000	12.10	9.97
DA22 Perv	2YR Projected	2	1,411.000	12.15	0.38
DA22 Perv	10YR Projected	10	3,773.000	12.10	1.15
DA22 Perv	100YR Projected	100	10,708.000	12.10	3.34
PDA8 Imp	2YR Projected	2	5,057.000	12.10	1.55
PDA8 Imp	10YR Projected	10	8,211.000	12.10	2.46
PDA8 Imp	100YR Projected	100	15,491.000	12.10	4.58
PDA8 Perv	2YR Projected	2	726.000	12.10	0.25
PDA8 Perv	10YR Projected	10	2,025.000	12.10	0.76
PDA8 Perv	100YR Projected	100	5,929.000	12.10	2.18
DA11 Imp	2YR Projected	2	7,619.000	12.10	2.40
DA11 Imp	10YR Projected	10	12,657.000	12.10	3.88
DA11 Imp	100YR Projected	100	24,322.000	12.10	7.25
DA11 Perv	2YR Projected	2	497.000	12.10	0.16
DA11 Perv	10YR Projected	10	1,393.000	12.10	0.50
DA11 Perv	100YR Projected	100	4,090.000	12.10	1.46
DA19 Perv	2YR Projected	2	277.000	12.15	0.07
DA19 Perv	10YR Projected	10	774.000	12.10	0.23
DA19 Perv	100YR Projected	100	2,273.000	12.10	0.71
DA19 Imp	2YR Projected	2	4,372.000	12.10	1.24
DA19 Imp	10YR Projected	10	7,263.000	12.10	2.01
DA19 Imp	100YR Projected	100	13,956.000	12.10	3.77
DA18 Imp	2YR Projected	2	10,059.000	12.15	2.61
DA18 Imp	10YR Projected	10	16,520.000	12.15	4.18
DA18 Imp	100YR Projected	100	31,454.000	12.15	7.78
DA18 Perv	2YR Projected	2	1,024.000	12.15	0.26
DA18 Perv	10YR Projected	10	2,866.000	12.15	0.84
DA18 Perv	100YR Projected	100	8,413.000	12.15	2.49
DA49 Imp	2YR Projected	2	3,868.000	12.10	1.20
DA49 Imp	10YR Projected	10	6,353.000	12.10	1.93
DA49 Imp	100YR Projected	100	12,095.000	12.10	3.59
DA49 Perv	2YR Projected	2	498.000	12.10	0.15
DA49 Perv	10YR Projected	10	1,394.000	12.10	0.47
DA49 Perv	100YR Projected	100	4,091.000	12.10	1.41
DA21 Perv	2YR Projected	2	636.000	12.15	0.17
DA21 Perv	10YR Projected	10	1,781.000	12.10	0.52
DA21 Perv	100YR Projected	100	5,228.000	12.10	1.59
DA21 Imp	2YR Projected	2	6,495.000	12.10	1.94
DA21 Imp	10YR Projected	10	10,791.000	12.10	3.14

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA21 Imp	100YR Projected	100	20,735.000	12.10	5.87
DA48 Imp	2YR Projected	2	2,623.000	12.10	0.80
DA48 Imp	10YR Projected	10	4,358.000	12.10	1.29
DA48 Imp	100YR Projected	100	8,374.000	12.10	2.42
DA48 Perv	2YR Projected	2	249.000	12.10	0.07
DA48 Perv	10YR Projected	10	697.000	12.10	0.22
DA48 Perv	100YR Projected	100	2,046.000	12.10	0.66
DA6 Perv	2YR Projected	2	609.000	12.10	0.16
DA6 Perv	10YR Projected	10	1,704.000	12.10	0.53
DA6 Perv	100YR Projected	100	5,001.000	12.10	1.61
DA6 Imp	2YR Projected	2	6,318.000	12.10	1.89
DA6 Imp	10YR Projected	10	10,377.000	12.10	3.02
DA6 Imp	100YR Projected	100	19,757.000	12.10	5.63
DA5 Imp	2YR Projected	2	4,749.000	12.10	1.51
DA5 Imp	10YR Projected	10	7,887.000	12.10	2.44
DA5 Imp	100YR Projected	100	15,154.000	12.10	4.56
DA5 Perv	2YR Projected	2	360.000	12.10	0.12
DA5 Perv	10YR Projected	10	1,007.000	12.10	0.37
DA5 Perv	100YR Projected	100	2,955.000	12.10	1.07
DA61 Perv	2YR Projected	2	166.000	12.15	0.04
DA61 Perv	10YR Projected	10	465.000	12.15	0.14
DA61 Perv	100YR Projected	100	1,364.000	12.15	0.40
DA61 Imp	2YR Projected	2	6,919.000	12.10	2.11
DA61 Imp	10YR Projected	10	11,234.000	12.10	3.37
DA61 Imp	100YR Projected	100	21,195.000	12.10	6.26
DA37 Perv	2YR Projected	2	498.000	12.10	0.14
DA37 Perv	10YR Projected	10	1,394.000	12.10	0.46
DA37 Perv	100YR Projected	100	4,091.000	12.10	1.38
DA37 Imp	2YR Projected	2	4,513.000	12.10	1.41
DA37 Imp	10YR Projected	10	7,412.000	12.10	2.26
DA37 Imp	100YR Projected	100	14,112.000	12.10	4.21
DA31 Perv	2YR Projected	2	3,592.000	12.10	1.03
DA31 Perv	10YR Projected	10	5,833.000	12.10	1.64
DA31 Perv	100YR Projected	100	11,005.000	12.10	3.04
DA31 Imp	2YR Projected	2	7,478.000	12.10	2.32
DA31 Imp	10YR Projected	10	12,282.000	12.10	3.73
DA31 Imp	100YR Projected	100	23,385.000	12.10	6.94
DA4 Imp	2YR Projected	2	10,741.000	12.10	3.28
DA4 Imp	10YR Projected	10	17,845.000	12.10	5.29
DA4 Imp	100YR Projected	100	34,290.000	12.10	9.90
DA4 Perv	2YR Projected	2	419.000	12.10	0.15
DA4 Perv	10YR Projected	10	1,168.000	12.10	0.44
DA4 Perv	100YR Projected	100	3,420.000	12.10	1.26

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA1 Imp	2YR Projected	2	6,962.000	12.10	2.17
DA1 Imp	10YR Projected	10	11,435.000	12.10	3.47
DA1 Imp	100YR Projected	100	21,772.000	12.10	6.47
DA1 Perv	2YR Projected	2	3,131.000	12.15	0.81
DA1 Perv	10YR Projected	10	7,874.000	12.15	2.21
DA1 Perv	100YR Projected	100	21,319.000	12.15	5.99
DA14 Imp	2YR Projected	2	4,122.000	12.10	1.31
DA14 Imp	10YR Projected	10	6,848.000	12.10	2.12
DA14 Imp	100YR Projected	100	13,159.000	12.10	3.96
DA14 Perv	2YR Projected	2	194.000	12.10	0.06
DA14 Perv	10YR Projected	10	542.000	12.10	0.19
DA14 Perv	100YR Projected	100	1,591.000	12.10	0.55
DA13 Imp	2YR Projected	2	4,114.000	12.10	1.34
DA13 Imp	10YR Projected	10	6,913.000	12.10	2.17
DA13 Imp	100YR Projected	100	13,407.000	12.10	4.07
DA13 Perv	2YR Projected	2	111.000	12.10	0.04
DA13 Perv	10YR Projected	10	311.000	12.10	0.12
DA13 Perv	100YR Projected	100	911.000	12.10	0.33
DA2 Perv	2YR Projected	2	2,712.000	12.10	0.74
DA2 Perv	10YR Projected	10	7,417.000	12.10	2.34
DA2 Perv	100YR Projected	100	21,402.000	12.10	6.91
DA2 Imp	2YR Projected	2	10,831.000	12.10	3.39
DA2 Imp	10YR Projected	10	17,789.000	12.10	5.43
DA2 Imp	100YR Projected	100	33,867.000	12.10	10.10
DA9 Imp	2YR Projected	2	6,122.000	12.10	1.95
DA9 Imp	10YR Projected	10	10,169.000	12.10	3.15
DA9 Imp	100YR Projected	100	19,540.000	12.10	5.88
DA9 Perv	2YR Projected	2	415.000	12.10	0.11
DA9 Perv	10YR Projected	10	1,162.000	12.10	0.37
DA9 Perv	100YR Projected	100	3,410.000	12.10	1.10
DA10 Perv	2YR Projected	2	663.000	12.10	0.21
DA10 Perv	10YR Projected	10	1,858.000	12.10	0.67
DA10 Perv	100YR Projected	100	5,454.000	12.10	1.96
DA10 Imp	2YR Projected	2	10,513.000	12.10	3.22
DA10 Imp	10YR Projected	10	17,069.000	12.10	5.13
DA10 Imp	100YR Projected	100	32,204.000	12.10	9.52
DA54 Imp	2YR Projected	2	3,873.000	12.10	1.23
DA54 Imp	10YR Projected	10	6,433.000	12.10	1.99
DA54 Imp	100YR Projected	100	12,361.000	12.10	3.72
DA54 Perv	2YR Projected	2	277.000	12.10	0.08
DA54 Perv	10YR Projected	10	774.000	12.10	0.26
DA54 Perv	100YR Projected	100	2,273.000	12.10	0.78
DA41 Perv	2YR Projected	2	56.000	12.10	0.02

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA41 Perv	10YR Projected	10	156.000	12.10	0.06
DA41 Perv	100YR Projected	100	456.000	12.10	0.17
DA41 Imp	2YR Projected	2	2,124.000	12.10	0.68
DA41 Imp	10YR Projected	10	3,529.000	12.10	1.09
DA41 Imp	100YR Projected	100	6,779.000	12.10	2.04
DA27 Imp	2YR Projected	2	10,247.000	12.10	3.13
DA27 Imp	10YR Projected	10	16,637.000	12.10	4.99
DA27 Imp	100YR Projected	100	31,387.000	12.05	9.27
DA29 Perv	2YR Projected	2	1,411.000	12.15	0.37
DA29 Perv	10YR Projected	10	3,950.000	12.10	1.18
DA29 Perv	100YR Projected	100	11,594.000	12.10	3.60
DA29 Imp	2YR Projected	2	12,865.000	12.10	4.09
DA29 Imp	10YR Projected	10	21,373.000	12.10	6.60
DA29 Imp	100YR Projected	100	41,068.000	12.10	12.34
DA7 Perv	2YR Projected	2	581.000	12.15	0.15
DA7 Perv	10YR Projected	10	1,626.000	12.15	0.47
DA7 Perv	100YR Projected	100	4,774.000	12.10	1.45
DA7 Imp	2YR Projected	2	5,157.000	12.10	1.60
DA7 Imp	10YR Projected	10	8,470.000	12.10	2.56
DA7 Imp	100YR Projected	100	16,126.000	12.10	4.77
EDA-4	2YR Projected	2	3,265.000	12.10	0.96
EDA-4	10YR Projected	10	8,788.000	12.10	2.90
EDA-4	100YR Projected	100	25,059.000	12.10	8.36

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
POI-2 (Harry's Brook)	2YR Projected	2	247,732.000	13.90	6.56
POI-2 (Harry's Brook)	10YR Projected	10	626,543.000	12.75	35.21
POI-2 (Harry's Brook)	100YR Projected	100	1,571,451.000	12.40	139.48
J 28/30	2YR Projected	2	183,082.000	13.90	6.23
J 28/30	10YR Projected	10	398,226.000	12.70	29.19
J 28/30	100YR Projected	100	927,925.000	12.35	104.67
POI-1 Barclay Square	2YR Projected	2	189,711.000	13.10	11.00
POI-1 Barclay Square	10YR Projected	10	423,874.000	12.30	58.60
POI-1 Barclay Square	100YR Projected	100	1,027,546.000	12.20	154.12
POI-3 Barclay Square Ex	2YR Projected	2	11,468.000	12.10	3.14
POI-3 Barclay Square Ex	10YR Projected	10	31,364.000	12.10	9.93
POI-3 Barclay Square Ex	100YR Projected	100	90,496.000	12.10	29.27

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
EX. BASIN 6 (IN)	2YR Projected	2	197,379.000	12.20	38.18	(N/A)	(N/A)
EX. BASIN 6 (OUT)	2YR Projected	2	61,385.000	20.75	1.04	91.55	161,931.000
EX. BASIN 6 (IN)	10YR Projected	10	359,615.000	12.20	66.25	(N/A)	(N/A)
EX. BASIN 6 (OUT)	10YR Projected	10	219,529.000	13.65	7.36	92.27	214,108.000
EX. BASIN 6 (IN)	100YR Projected	100	759,770.000	12.20	141.92	(N/A)	(N/A)
EX. BASIN 6 (OUT)	100YR Projected	100	618,467.000	12.75	38.16	94.16	366,837.000
Infil30 (IN)	2YR Projected	2	188,476.000	12.10	18.60	(N/A)	(N/A)
Infil30 (OUT)	2YR Projected	2	157,981.000	14.10	5.57	93.48	64,458.000
Infil30 (IN)	10YR Projected	10	382,042.000	12.20	42.80	(N/A)	(N/A)
Infil30 (OUT)	10YR Projected	10	350,591.000	12.75	25.42	94.36	95,518.000
Infil30 (IN)	100YR Projected	100	855,791.000	12.15	129.18	(N/A)	(N/A)
Infil30 (OUT)	100YR Projected	100	823,581.000	12.40	90.89	95.96	155,898.000
Bio28 (IN)	2YR Projected	2	27,250.000	12.10	7.65	(N/A)	(N/A)
Bio28 (OUT)	2YR Projected	2	25,101.000	12.25	3.70	92.66	7,755.000
Bio28 (IN)	10YR Projected	10	49,784.000	12.10	13.76	(N/A)	(N/A)
Bio28 (OUT)	10YR Projected	10	47,635.000	12.20	7.18	93.33	11,423.000
Bio28 (IN)	100YR Projected	100	106,493.000	12.10	30.64	(N/A)	(N/A)
Bio28 (OUT)	100YR Projected	100	104,344.000	12.20	16.31	94.73	20,136.000
Bio45 (IN)	2YR Projected	2	90,825.000	12.10	13.30	(N/A)	(N/A)
Bio45 (OUT)	2YR Projected	2	82,761.000	13.55	2.93	98.64	29,824.000
Bio45 (IN)	10YR Projected	10	187,265.000	12.10	26.77	(N/A)	(N/A)
Bio45 (OUT)	10YR Projected	10	179,110.000	12.50	13.57	99.35	41,263.000
Bio45 (IN)	100YR Projected	100	420,660.000	12.10	65.66	(N/A)	(N/A)
Bio45 (OUT)	100YR Projected	100	412,422.000	12.25	48.49	100.43	60,348.000
UGB57 (IN)	2YR Projected	2	10,718.000	12.10	3.41	(N/A)	(N/A)

Basin Routings Projected Rainfall

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Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB57 (OUT)	2YR Projected	2	0.000	0.00	0.00	112.43	10,720.000
UGB57 (IN)	10YR Projected	10	18,055.000	12.10	5.60	(N/A)	(N/A)
UGB57 (OUT)	10YR Projected	10	6,686.000	14.40	0.23	112.70	13,280.000
UGB57 (IN)	100YR Projected	100	35,317.000	12.10	10.70	(N/A)	(N/A)
UGB57 (OUT)	100YR Projected	100	23,947.000	12.35	2.10	113.45	19,941.000
UGB56 (IN)	2YR Projected	2	25,943.000	12.10	8.41	(N/A)	(N/A)
UGB56 (OUT)	2YR Projected	2	12,381.000	14.30	0.37	111.24	17,962.000
UGB56 (IN)	10YR Projected	10	44,459.000	12.10	14.03	(N/A)	(N/A)
UGB56 (OUT)	10YR Projected	10	30,896.000	12.65	1.77	111.70	25,880.000
UGB56 (IN)	100YR Projected	100	88,380.000	12.10	27.15	(N/A)	(N/A)
UGB56 (OUT)	100YR Projected	100	74,816.000	12.25	8.15	112.79	41,912.000
UGB62 (IN)	2YR Projected	2	18,961.000	12.10	5.75	(N/A)	(N/A)
UGB62 (OUT)	2YR Projected	2	13,881.000	12.70	0.68	109.20	11,385.000
UGB62 (IN)	10YR Projected	10	31,177.000	12.10	9.30	(N/A)	(N/A)
UGB62 (OUT)	10YR Projected	10	26,069.000	12.55	1.40	109.69	17,032.000
UGB62 (IN)	100YR Projected	100	59,793.000	12.10	17.55	(N/A)	(N/A)
UGB62 (OUT)	100YR Projected	100	54,648.000	12.35	3.93	110.74	27,407.000
UGB63 (IN)	2YR Projected	2	13,306.000	12.10	4.06	(N/A)	(N/A)
UGB63 (OUT)	2YR Projected	2	8,945.000	12.30	0.93	105.52	7,326.000
UGB63 (IN)	10YR Projected	10	21,606.000	12.10	6.48	(N/A)	(N/A)
UGB63 (OUT)	10YR Projected	10	17,244.000	12.15	2.42	105.98	9,846.000
UGB63 (IN)	100YR Projected	100	40,762.000	12.10	12.03	(N/A)	(N/A)
UGB63 (OUT)	100YR Projected	100	36,400.000	12.15	7.63	106.61	12,898.000
Bio1 (IN)	2YR Projected	2	200,910.000	12.25	25.45	(N/A)	(N/A)

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Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
Bio1 (OUT)	2YR Projected	2	189,711.000	13.10	11.00	85.14	52,382.000
Bio1 (IN)	10YR Projected	10	438,588.000	12.20	65.12	(N/A)	(N/A)
Bio1 (OUT)	10YR Projected	10	423,874.000	12.30	58.60	86.63	65,160.000
Bio1 (IN)	100YR Projected	100	1,024,376.000	12.15	144.19	(N/A)	(N/A)
Bio1 (OUT)	100YR Projected	100	1,006,790.000	12.20	140.01	87.90	77,303.000
Bio12 (IN)	2YR Projected	2	134,170.000	12.15	17.58	(N/A)	(N/A)
Bio12 (OUT)	2YR Projected	2	120,985.000	12.25	14.98	87.67	14,311.000
Bio12 (IN)	10YR Projected	10	294,741.000	12.15	43.99	(N/A)	(N/A)
Bio12 (OUT)	10YR Projected	10	278,719.000	12.20	39.70	88.51	20,219.000
Bio12 (IN)	100YR Projected	100	706,327.000	12.15	105.70	(N/A)	(N/A)
Bio12 (OUT)	100YR Projected	100	688,213.000	12.20	103.05	89.42	27,324.000
Bio35 (IN)	2YR Projected	2	30,327.000	12.10	1.14	(N/A)	(N/A)
Bio35 (OUT)	2YR Projected	2	22,215.000	18.20	0.45	105.21	9,145.000
Bio35 (IN)	10YR Projected	10	77,591.000	12.75	4.42	(N/A)	(N/A)
Bio35 (OUT)	10YR Projected	10	67,275.000	14.20	2.38	106.06	14,597.000
Bio35 (IN)	100YR Projected	100	197,617.000	12.35	22.94	(N/A)	(N/A)
Bio35 (OUT)	100YR Projected	100	186,201.000	12.50	18.75	107.26	24,082.000
UGB59 (IN)	2YR Projected	2	43,481.000	12.10	6.73	(N/A)	(N/A)
UGB59 (OUT)	2YR Projected	2	26,485.000	14.90	0.92	105.39	23,206.000
UGB59 (IN)	10YR Projected	10	86,097.000	12.10	13.65	(N/A)	(N/A)
UGB59 (OUT)	10YR Projected	10	69,071.000	12.75	4.03	106.14	35,103.000
UGB59 (IN)	100YR Projected	100	192,935.000	12.10	33.80	(N/A)	(N/A)
UGB59 (OUT)	100YR Projected	100	175,885.000	12.35	21.20	107.45	51,737.000
Bio58 (IN)	2YR Projected	2	26,462.000	12.10	7.59	(N/A)	(N/A)
Bio58 (OUT)	2YR Projected	2	21,046.000	12.60	1.35	108.08	13,023.000
Bio58 (IN)	10YR Projected	10	48,890.000	12.10	13.65	(N/A)	(N/A)

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Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
Bio58 (OUT)	10YR Projected	10	43,469.000	12.40	3.71	108.90	20,803.000
Bio58 (IN)	100YR Projected	100	104,885.000	12.10	28.34	(N/A)	(N/A)
Bio58 (OUT)	100YR Projected	100	99,459.000	12.25	13.25	109.98	32,641.000
Bio51 (IN)	2YR Projected	2	6,190.000	12.10	1.62	(N/A)	(N/A)
Bio51 (OUT)	2YR Projected	2	3,151.000	13.10	0.20	103.12	3,473.000
Bio51 (IN)	10YR Projected	10	12,497.000	12.10	3.28	(N/A)	(N/A)
Bio51 (OUT)	10YR Projected	10	9,458.000	12.30	1.56	103.49	4,828.000
Bio51 (IN)	100YR Projected	100	29,432.000	12.10	7.62	(N/A)	(N/A)
Bio51 (OUT)	100YR Projected	100	26,393.000	12.20	5.16	104.10	7,219.000
Bio26 (IN)	2YR Projected	2	28,433.000	12.10	8.45	(N/A)	(N/A)
Bio26 (OUT)	2YR Projected	2	19,650.000	12.35	2.96	98.69	10,419.000
Bio26 (IN)	10YR Projected	10	53,679.000	12.10	15.72	(N/A)	(N/A)
Bio26 (OUT)	10YR Projected	10	44,000.000	12.20	8.47	99.28	15,457.000
Bio26 (IN)	100YR Projected	100	116,481.000	12.10	32.90	(N/A)	(N/A)
Bio26 (OUT)	100YR Projected	100	105,701.000	12.20	21.94	100.12	23,527.000
Bio25 (IN)	2YR Projected	2	28,202.000	12.10	7.47	(N/A)	(N/A)
Bio25 (OUT)	2YR Projected	2	6,917.000	24.00	0.10	101.69	25,367.000
Bio25 (IN)	10YR Projected	10	51,512.000	12.10	13.32	(N/A)	(N/A)
Bio25 (OUT)	10YR Projected	10	29,155.000	14.20	0.81	102.26	34,934.000
Bio25 (IN)	100YR Projected	100	110,599.000	12.10	27.79	(N/A)	(N/A)
Bio25 (OUT)	100YR Projected	100	88,050.000	12.45	7.71	103.39	55,773.000
UGB50 (IN)	2YR Projected	2	4,974.000	12.10	1.52	(N/A)	(N/A)
UGB50 (OUT)	2YR Projected	2	4,214.000	12.10	1.39	103.49	1,095.000
UGB50 (IN)	10YR Projected	10	8,553.000	12.10	2.57	(N/A)	(N/A)
UGB50 (OUT)	10YR Projected	10	7,794.000	12.10	2.46	103.76	1,213.000

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Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB50 (IN)	100YR Projected	100	17,243.000	12.10	5.10	(N/A)	(N/A)
UGB50 (OUT)	100YR Projected	100	16,483.000	12.10	4.32	104.60	1,562.000
UGB46 (IN)	2YR Projected	2	4,357.000	12.10	1.34	(N/A)	(N/A)
UGB46 (OUT)	2YR Projected	2	3,826.000	12.10	1.18	105.02	869.000
UGB46 (IN)	10YR Projected	10	7,572.000	12.10	2.31	(N/A)	(N/A)
UGB46 (OUT)	10YR Projected	10	7,041.000	12.10	1.98	105.33	1,016.000
UGB46 (IN)	100YR Projected	100	15,455.000	12.10	4.65	(N/A)	(N/A)
UGB46 (OUT)	100YR Projected	100	14,924.000	12.10	3.47	106.51	1,521.000
UGB47 (IN)	2YR Projected	2	7,664.000	12.10	2.23	(N/A)	(N/A)
UGB47 (OUT)	2YR Projected	2	6,646.000	12.15	1.36	109.57	2,330.000
UGB47 (IN)	10YR Projected	10	13,548.000	12.10	3.84	(N/A)	(N/A)
UGB47 (OUT)	10YR Projected	10	12,530.000	12.15	2.24	109.98	3,018.000
UGB47 (IN)	100YR Projected	100	28,191.000	12.10	7.79	(N/A)	(N/A)
UGB47 (OUT)	100YR Projected	100	27,173.000	12.20	4.01	111.58	5,185.000
UGB60 (IN)	2YR Projected	2	17,131.000	12.10	5.43	(N/A)	(N/A)
UGB60 (OUT)	2YR Projected	2	9,697.000	12.95	0.54	112.41	10,479.000
UGB60 (IN)	10YR Projected	10	29,179.000	12.10	9.03	(N/A)	(N/A)
UGB60 (OUT)	10YR Projected	10	21,745.000	12.30	2.14	112.90	15,106.000
UGB60 (IN)	100YR Projected	100	57,869.000	12.10	17.52	(N/A)	(N/A)
UGB60 (OUT)	100YR Projected	100	50,434.000	12.15	6.93	113.85	22,889.000
UGB15 (IN)	2YR Projected	2	31,847.000	12.10	5.23	(N/A)	(N/A)
UGB15 (OUT)	2YR Projected	2	29,670.000	12.30	2.61	93.26	5,859.000
UGB15 (IN)	10YR Projected	10	59,491.000	12.10	10.37	(N/A)	(N/A)
UGB15 (OUT)	10YR Projected	10	57,313.000	12.25	6.07	93.73	8,519.000

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Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB15 (IN)	100YR Projected	100	129,242.000	12.10	25.00	(N/A)	(N/A)
UGB15 (OUT)	100YR Projected	100	127,064.000	12.20	17.57	94.87	13,904.000
UGB16 (IN)	2YR Projected	2	21,490.000	12.10	6.57	(N/A)	(N/A)
UGB16 (OUT)	2YR Projected	2	18,402.000	12.35	1.60	95.43	9,663.000
UGB16 (IN)	10YR Projected	10	38,080.000	12.10	11.61	(N/A)	(N/A)
UGB16 (OUT)	10YR Projected	10	34,992.000	12.25	3.64	96.01	14,163.000
UGB16 (IN)	100YR Projected	100	79,450.000	12.10	24.05	(N/A)	(N/A)
UGB16 (OUT)	100YR Projected	100	76,361.000	12.20	10.82	97.49	22,445.000
UGB55 (IN)	2YR Projected	2	28,568.000	12.10	8.92	(N/A)	(N/A)
UGB55 (OUT)	2YR Projected	2	22,275.000	12.35	1.91	107.52	14,739.000
UGB55 (IN)	10YR Projected	10	48,245.000	12.10	14.80	(N/A)	(N/A)
UGB55 (OUT)	10YR Projected	10	41,953.000	12.15	6.21	108.01	20,082.000
UGB55 (IN)	100YR Projected	100	94,889.000	12.10	28.59	(N/A)	(N/A)
UGB55 (OUT)	100YR Projected	100	88,596.000	12.15	17.85	108.82	27,480.000
UGB32 (IN)	2YR Projected	2	30,013.000	12.10	9.41	(N/A)	(N/A)
UGB32 (OUT)	2YR Projected	2	25,745.000	12.15	3.78	111.39	11,825.000
UGB32 (IN)	10YR Projected	10	49,995.000	12.10	15.38	(N/A)	(N/A)
UGB32 (OUT)	10YR Projected	10	45,727.000	12.15	7.30	111.88	15,696.000
UGB32 (IN)	100YR Projected	100	96,941.000	12.10	29.29	(N/A)	(N/A)
UGB32 (OUT)	100YR Projected	100	92,673.000	12.15	18.02	113.02	22,489.000
UGB33 (IN)	2YR Projected	2	34,457.000	12.10	5.22	(N/A)	(N/A)
UGB33 (OUT)	2YR Projected	2	33,846.000	12.25	4.56	107.41	2,514.000
UGB33 (IN)	10YR Projected	10	61,250.000	12.10	9.96	(N/A)	(N/A)
UGB33 (OUT)	10YR Projected	10	60,639.000	12.20	8.98	107.98	3,551.000

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Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB33 (IN)	100YR Projected	100	124,701.000	12.10	23.45	(N/A)	(N/A)
UGB33 (OUT)	100YR Projected	100	124,090.000	12.15	22.31	109.31	5,419.000
UGB34 (IN)	2YR Projected	2	4,872.000	12.10	1.51	(N/A)	(N/A)
UGB34 (OUT)	2YR Projected	2	4,079.000	12.25	0.47	110.43	2,152.000
UGB34 (IN)	10YR Projected	10	8,418.000	12.10	2.60	(N/A)	(N/A)
UGB34 (OUT)	10YR Projected	10	7,625.000	12.20	1.03	110.72	2,998.000
UGB34 (IN)	100YR Projected	100	17,066.000	12.10	5.21	(N/A)	(N/A)
UGB34 (OUT)	100YR Projected	100	16,273.000	12.20	1.88	111.58	4,908.000
UGB43 (IN)	2YR Projected	2	2,602.000	12.10	0.73	(N/A)	(N/A)
UGB43 (OUT)	2YR Projected	2	182.000	13.90	0.04	99.03	1,364.000
UGB43 (IN)	10YR Projected	10	6,076.000	12.10	1.69	(N/A)	(N/A)
UGB43 (OUT)	10YR Projected	10	3,209.000	12.35	0.66	99.35	1,946.000
UGB43 (IN)	100YR Projected	100	15,228.000	12.10	4.68	(N/A)	(N/A)
UGB43 (OUT)	100YR Projected	100	11,971.000	12.15	3.39	100.08	3,187.000
UGB44 (IN)	2YR Projected	2	2,626.000	12.10	0.86	(N/A)	(N/A)
UGB44 (OUT)	2YR Projected	2	209.000	13.05	0.04	102.03	1,371.000
UGB44 (IN)	10YR Projected	10	4,504.000	12.10	1.43	(N/A)	(N/A)
UGB44 (OUT)	10YR Projected	10	1,660.000	12.20	0.45	102.28	1,809.000
UGB44 (IN)	100YR Projected	100	8,966.000	12.10	2.77	(N/A)	(N/A)
UGB44 (OUT)	100YR Projected	100	5,703.000	12.15	1.79	102.70	2,554.000
UGB42 (IN)	2YR Projected	2	7,170.000	12.10	2.34	(N/A)	(N/A)
UGB42 (OUT)	2YR Projected	2	5,943.000	12.15	1.39	96.72	2,403.000
UGB42 (IN)	10YR Projected	10	12,856.000	12.10	4.12	(N/A)	(N/A)
UGB42 (OUT)	10YR Projected	10	11,629.000	12.15	2.75	97.14	3,054.000

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Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB42 (IN)	100YR Projected	100	26,833.000	12.10	8.40	(N/A)	(N/A)
UGB42 (OUT)	100YR Projected	100	25,606.000	12.10	6.49	98.02	4,216.000
Bio36 (IN)	2YR Projected	2	9,936.000	12.10	3.16	(N/A)	(N/A)
Bio36 (OUT)	2YR Projected	2	9,276.000	12.15	2.26	99.57	1,641.000
Bio36 (IN)	10YR Projected	10	18,652.000	12.10	6.03	(N/A)	(N/A)
Bio36 (OUT)	10YR Projected	10	17,992.000	12.10	4.45	100.05	2,329.000
Bio36 (IN)	100YR Projected	100	40,860.000	12.10	13.14	(N/A)	(N/A)
Bio36 (OUT)	100YR Projected	100	40,200.000	12.10	9.96	100.98	3,963.000
Bio53 (IN)	2YR Projected	2	5,021.000	12.10	1.51	(N/A)	(N/A)
Bio53 (OUT)	2YR Projected	2	4,026.000	12.15	0.91	105.89	1,672.000
Bio53 (IN)	10YR Projected	10	9,506.000	12.10	2.87	(N/A)	(N/A)
Bio53 (OUT)	10YR Projected	10	8,511.000	12.15	1.89	106.18	2,184.000
Bio53 (IN)	100YR Projected	100	21,170.000	12.10	6.33	(N/A)	(N/A)
Bio53 (OUT)	100YR Projected	100	20,175.000	12.15	4.38	106.74	3,363.000
Bio52 (IN)	2YR Projected	2	11,553.000	12.10	3.42	(N/A)	(N/A)
Bio52 (OUT)	2YR Projected	2	9,140.000	12.15	2.13	101.62	2,557.000
Bio52 (IN)	10YR Projected	10	21,599.000	12.10	6.43	(N/A)	(N/A)
Bio52 (OUT)	10YR Projected	10	19,023.000	12.15	4.26	102.09	3,632.000
Bio52 (IN)	100YR Projected	100	47,670.000	12.10	14.12	(N/A)	(N/A)
Bio52 (OUT)	100YR Projected	100	44,901.000	12.15	9.78	103.03	6,206.000
UGB20 (IN)	2YR Projected	2	23,213.000	12.10	6.57	(N/A)	(N/A)
UGB20 (OUT)	2YR Projected	2	21,545.000	12.25	3.30	98.97	7,304.000
UGB20 (IN)	10YR Projected	10	41,923.000	12.10	11.96	(N/A)	(N/A)
UGB20 (OUT)	10YR Projected	10	40,254.000	12.15	9.06	99.43	9,194.000
UGB20 (IN)	100YR Projected	100	88,320.000	12.10	25.47	(N/A)	(N/A)

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Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB20 (OUT)	100YR Projected	100	86,651.000	12.15	22.08	100.13	11,518.000
UGB17 (IN)	2YR Projected	2	10,952.000	12.10	3.48	(N/A)	(N/A)
UGB17 (OUT)	2YR Projected	2	3,622.000	14.75	0.13	111.58	8,153.000
UGB17 (IN)	10YR Projected	10	18,571.000	12.10	5.77	(N/A)	(N/A)
UGB17 (OUT)	10YR Projected	10	11,240.000	12.60	0.74	111.88	11,038.000
UGB17 (IN)	100YR Projected	100	36,625.000	12.10	11.13	(N/A)	(N/A)
UGB17 (OUT)	100YR Projected	100	29,294.000	12.25	3.43	112.59	17,517.000
UGB22 (IN)	2YR Projected	2	11,783.000	12.10	3.69	(N/A)	(N/A)
UGB22 (OUT)	2YR Projected	2	5,334.000	13.30	0.28	108.12	7,516.000
UGB22 (IN)	10YR Projected	10	21,002.000	12.10	6.49	(N/A)	(N/A)
UGB22 (OUT)	10YR Projected	10	14,553.000	12.35	1.55	108.49	10,623.000
UGB22 (IN)	100YR Projected	100	43,810.000	12.10	13.31	(N/A)	(N/A)
UGB22 (OUT)	100YR Projected	100	37,361.000	12.20	6.03	109.21	16,342.000
Infil8 (IN)	2YR Projected	2	5,783.000	12.10	1.80	(N/A)	(N/A)
Infil8 (OUT)	2YR Projected	2	2,560.000	12.50	0.26	110.06	2,557.000
Infil8 (IN)	10YR Projected	10	10,236.000	12.10	3.22	(N/A)	(N/A)
Infil8 (OUT)	10YR Projected	10	6,593.000	12.25	0.89	110.34	3,973.000
Infil8 (IN)	100YR Projected	100	21,420.000	12.10	6.76	(N/A)	(N/A)
Infil8 (OUT)	100YR Projected	100	17,314.000	12.15	2.39	110.87	6,795.000
UGB11 (IN)	2YR Projected	2	37,786.000	12.10	4.56	(N/A)	(N/A)
UGB11 (OUT)	2YR Projected	2	33,836.000	12.10	4.35	85.47	1,150.000
UGB11 (IN)	10YR Projected	10	71,363.000	12.10	9.26	(N/A)	(N/A)
UGB11 (OUT)	10YR Projected	10	67,034.000	12.10	9.02	85.73	1,354.000
UGB11 (IN)	100YR Projected	100	155,475.000	12.10	22.65	(N/A)	(N/A)

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB11 (OUT)	100YR Projected	100	150,786.000	12.15	22.00	86.36	1,781.000
UGB19 (IN)	2YR Projected	2	26,193.000	12.20	3.97	(N/A)	(N/A)
UGB19 (OUT)	2YR Projected	2	23,083.000	12.30	3.66	96.64	1,772.000
UGB19 (IN)	10YR Projected	10	48,291.000	12.15	11.07	(N/A)	(N/A)
UGB19 (OUT)	10YR Projected	10	44,852.000	12.20	9.57	97.20	2,254.000
UGB19 (IN)	100YR Projected	100	102,880.000	12.15	26.07	(N/A)	(N/A)
UGB19 (OUT)	100YR Projected	100	99,093.000	12.15	24.77	97.97	2,807.000
UGB18 (IN)	2YR Projected	2	34,166.000	12.15	5.55	(N/A)	(N/A)
UGB18 (OUT)	2YR Projected	2	33,199.000	12.20	5.14	96.58	2,223.000
UGB18 (IN)	10YR Projected	10	64,239.000	12.15	14.42	(N/A)	(N/A)
UGB18 (OUT)	10YR Projected	10	63,272.000	12.20	13.62	97.12	2,628.000
UGB18 (IN)	100YR Projected	100	138,960.000	12.15	35.05	(N/A)	(N/A)
UGB18 (OUT)	100YR Projected	100	136,248.000	12.15	27.89	97.72	3,070.000
UGB49 (IN)	2YR Projected	2	4,366.000	12.10	1.35	(N/A)	(N/A)
UGB49 (OUT)	2YR Projected	2	4,026.000	12.10	1.18	104.22	628.000
UGB49 (IN)	10YR Projected	10	7,746.000	12.10	2.40	(N/A)	(N/A)
UGB49 (OUT)	10YR Projected	10	7,407.000	12.10	2.21	104.46	746.000
UGB49 (IN)	100YR Projected	100	16,187.000	12.10	5.00	(N/A)	(N/A)
UGB49 (OUT)	100YR Projected	100	15,847.000	12.10	4.77	104.93	973.000
UGB21 (IN)	2YR Projected	2	7,131.000	12.10	2.09	(N/A)	(N/A)
UGB21 (OUT)	2YR Projected	2	6,534.000	12.15	1.79	100.11	1,109.000
UGB21 (IN)	10YR Projected	10	12,572.000	12.10	3.66	(N/A)	(N/A)
UGB21 (OUT)	10YR Projected	10	11,974.000	12.15	3.24	100.53	1,343.000
UGB21 (IN)	100YR Projected	100	25,963.000	12.10	7.46	(N/A)	(N/A)

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB21 (OUT)	100YR Projected	100	25,365.000	12.15	6.80	101.34	1,728.000
UGB48 (IN)	2YR Projected	2	2,872.000	12.10	0.87	(N/A)	(N/A)
UGB48 (OUT)	2YR Projected	2	2,650.000	12.15	0.74	102.16	410.000
UGB48 (IN)	10YR Projected	10	5,055.000	12.10	1.51	(N/A)	(N/A)
UGB48 (OUT)	10YR Projected	10	4,832.000	12.15	1.32	102.31	475.000
UGB48 (IN)	100YR Projected	100	10,420.000	12.10	3.08	(N/A)	(N/A)
UGB48 (OUT)	100YR Projected	100	10,197.000	12.10	2.79	102.64	609.000
UGB6 (IN)	2YR Projected	2	12,606.000	12.10	3.69	(N/A)	(N/A)
UGB6 (OUT)	2YR Projected	2	11,397.000	12.15	2.12	97.00	2,323.000
UGB6 (IN)	10YR Projected	10	22,554.000	12.10	6.55	(N/A)	(N/A)
UGB6 (OUT)	10YR Projected	10	20,540.000	12.15	4.77	97.50	2,638.000
UGB6 (IN)	100YR Projected	100	46,849.000	12.10	13.59	(N/A)	(N/A)
UGB6 (OUT)	100YR Projected	100	38,396.000	12.25	5.25	97.50	2,638.000
UGB5 (IN)	2YR Projected	2	16,505.000	12.10	3.72	(N/A)	(N/A)
UGB5 (OUT)	2YR Projected	2	14,817.000	12.20	2.18	96.92	2,271.000
UGB5 (IN)	10YR Projected	10	29,434.000	12.10	7.31	(N/A)	(N/A)
UGB5 (OUT)	10YR Projected	10	27,620.000	12.15	6.39	97.37	2,555.000
UGB5 (IN)	100YR Projected	100	56,505.000	11.95	8.22	(N/A)	(N/A)
UGB5 (OUT)	100YR Projected	100	54,559.000	12.05	7.70	97.47	2,621.000
UGB61 (IN)	2YR Projected	2	7,085.000	12.10	2.15	(N/A)	(N/A)
UGB61 (OUT)	2YR Projected	2	6,536.000	12.15	1.02	108.97	2,179.000
UGB61 (IN)	10YR Projected	10	11,699.000	12.10	3.50	(N/A)	(N/A)
UGB61 (OUT)	10YR Projected	10	11,150.000	12.15	1.47	109.35	3,035.000
UGB61 (IN)	100YR Projected	100	22,559.000	12.10	6.65	(N/A)	(N/A)
UGB61 (OUT)	100YR Projected	100	22,010.000	12.20	2.30	110.46	5,297.000

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB37 (IN)	2YR Projected	2	5,011.000	12.10	1.55	(N/A)	(N/A)
UGB37 (OUT)	2YR Projected	2	3,599.000	12.15	0.79	104.90	2,170.000
UGB37 (IN)	10YR Projected	10	8,806.000	12.10	2.72	(N/A)	(N/A)
UGB37 (OUT)	10YR Projected	10	7,394.000	12.15	1.73	105.19	2,704.000
UGB37 (IN)	100YR Projected	100	18,203.000	12.10	5.60	(N/A)	(N/A)
UGB37 (OUT)	100YR Projected	100	16,791.000	12.15	3.96	105.70	3,619.000
UGB31 (IN)	2YR Projected	2	11,070.000	12.10	3.35	(N/A)	(N/A)
UGB31 (OUT)	2YR Projected	2	10,132.000	12.15	1.67	94.03	3,407.000
UGB31 (IN)	10YR Projected	10	18,115.000	12.10	5.36	(N/A)	(N/A)
UGB31 (OUT)	10YR Projected	10	17,177.000	12.20	2.45	94.47	4,619.000
UGB31 (IN)	100YR Projected	100	34,390.000	12.10	9.98	(N/A)	(N/A)
UGB31 (OUT)	100YR Projected	100	33,451.000	12.20	3.95	95.87	7,713.000
UGB4 (IN)	2YR Projected	2	11,160.000	12.10	3.42	(N/A)	(N/A)
UGB4 (OUT)	2YR Projected	2	5,230.000	12.25	1.10	86.61	4,473.000
UGB4 (IN)	10YR Projected	10	19,013.000	12.10	5.73	(N/A)	(N/A)
UGB4 (OUT)	10YR Projected	10	12,570.000	12.20	3.01	87.10	6,113.000
UGB4 (IN)	100YR Projected	100	37,711.000	12.10	11.15	(N/A)	(N/A)
UGB4 (OUT)	100YR Projected	100	30,780.000	12.15	7.30	87.91	8,448.000
UGB2 (IN)	2YR Projected	2	21,271.000	12.10	5.98	(N/A)	(N/A)
UGB2 (OUT)	2YR Projected	2	19,065.000	12.15	4.50	87.10	4,240.000
UGB2 (IN)	10YR Projected	10	39,006.000	12.10	10.78	(N/A)	(N/A)
UGB2 (OUT)	10YR Projected	10	36,800.000	12.15	8.89	87.37	4,740.000
UGB2 (IN)	100YR Projected	100	83,523.000	12.10	24.03	(N/A)	(N/A)
UGB2 (OUT)	100YR Projected	100	77,919.000	12.05	13.43	87.58	5,152.000
UGB13 (IN)	2YR Projected	2	8,140.000	12.10	2.34	(N/A)	(N/A)

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB13 (OUT)	2YR Projected	2	7,727.000	12.10	1.85	87.73	822.000
UGB13 (IN)	10YR Projected	10	14,213.000	12.10	3.67	(N/A)	(N/A)
UGB13 (OUT)	10YR Projected	10	13,800.000	12.10	3.01	88.05	1,002.000
UGB13 (IN)	100YR Projected	100	28,666.000	12.10	8.43	(N/A)	(N/A)
UGB13 (OUT)	100YR Projected	100	28,253.000	12.10	7.02	88.85	1,419.000
UGB14 (IN)	2YR Projected	2	4,316.000	12.10	1.37	(N/A)	(N/A)
UGB14 (OUT)	2YR Projected	2	3,914.000	12.10	0.97	87.98	822.000
UGB14 (IN)	10YR Projected	10	7,390.000	12.10	2.30	(N/A)	(N/A)
UGB14 (OUT)	10YR Projected	10	6,989.000	12.15	1.49	88.49	1,108.000
UGB14 (IN)	100YR Projected	100	14,750.000	12.10	4.51	(N/A)	(N/A)
UGB14 (OUT)	100YR Projected	100	14,348.000	12.10	4.02	88.94	1,342.000
UGB9 (IN)	2YR Projected	2	6,537.000	12.10	2.06	(N/A)	(N/A)
UGB9 (OUT)	2YR Projected	2	5,679.000	12.10	1.65	101.81	1,443.000
UGB9 (IN)	10YR Projected	10	11,331.000	12.10	3.51	(N/A)	(N/A)
UGB9 (OUT)	10YR Projected	10	10,474.000	12.10	2.99	102.06	1,724.000
UGB9 (IN)	100YR Projected	100	22,950.000	12.10	6.98	(N/A)	(N/A)
UGB9 (OUT)	100YR Projected	100	22,092.000	12.10	6.34	102.56	2,262.000
UGB10 (IN)	2YR Projected	2	11,176.000	12.10	3.43	(N/A)	(N/A)
UGB10 (OUT)	2YR Projected	2	9,248.000	12.15	2.23	107.62	3,505.000
UGB10 (IN)	10YR Projected	10	18,927.000	12.10	5.80	(N/A)	(N/A)
UGB10 (OUT)	10YR Projected	10	16,999.000	12.15	4.03	107.93	4,254.000
UGB10 (IN)	100YR Projected	100	37,658.000	12.10	11.48	(N/A)	(N/A)
UGB10 (OUT)	100YR Projected	100	35,730.000	12.10	9.02	108.59	5,742.000
UGB54 (IN)	2YR Projected	2	4,149.000	12.10	1.32	(N/A)	(N/A)

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB54 (OUT)	2YR Projected	2	3,771.000	12.10	1.03	100.22	850.000
UGB54 (IN)	10YR Projected	10	7,208.000	12.10	2.25	(N/A)	(N/A)
UGB54 (OUT)	10YR Projected	10	6,829.000	12.10	1.90	100.46	1,036.000
UGB54 (IN)	100YR Projected	100	14,634.000	12.10	4.50	(N/A)	(N/A)
UGB54 (OUT)	100YR Projected	100	14,256.000	12.10	3.63	101.05	1,440.000
UGB41 (IN)	2YR Projected	2	2,180.000	12.10	0.70	(N/A)	(N/A)
UGB41 (OUT)	2YR Projected	2	1,985.000	12.10	0.63	105.28	361.000
UGB41 (IN)	10YR Projected	10	3,684.000	12.10	1.15	(N/A)	(N/A)
UGB41 (OUT)	10YR Projected	10	3,489.000	12.10	1.03	105.50	434.000
UGB41 (IN)	100YR Projected	100	7,235.000	12.10	2.21	(N/A)	(N/A)
UGB41 (OUT)	100YR Projected	100	7,040.000	12.10	1.79	106.26	650.000
UGB27 (IN)	2YR Projected	2	10,247.000	12.10	3.13	(N/A)	(N/A)
UGB27 (OUT)	2YR Projected	2	5,280.000	12.15	1.89	101.45	4,038.000
UGB27 (IN)	10YR Projected	10	16,637.000	12.10	4.99	(N/A)	(N/A)
UGB27 (OUT)	10YR Projected	10	11,467.000	12.10	3.82	101.89	4,683.000
UGB27 (IN)	100YR Projected	100	31,387.000	12.05	9.27	(N/A)	(N/A)
UGB27 (OUT)	100YR Projected	100	26,027.000	12.10	7.97	102.64	5,617.000
INFIL29 (IN)	2YR Projected	2	14,276.000	12.10	4.44	(N/A)	(N/A)
INFIL29 (OUT)	2YR Projected	2	13,403.000	12.10	3.56	95.15	1,934.000
INFIL29 (IN)	10YR Projected	10	25,322.000	12.10	7.78	(N/A)	(N/A)
INFIL29 (OUT)	10YR Projected	10	24,450.000	12.10	6.31	95.55	2,571.000
INFIL29 (IN)	100YR Projected	100	52,662.000	12.10	15.93	(N/A)	(N/A)
INFIL29 (OUT)	100YR Projected	100	51,789.000	12.10	14.77	96.22	3,851.000
UGB7 (IN)	2YR Projected	2	5,738.000	12.10	1.74	(N/A)	(N/A)

Basin Routings Projected Rainfall

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB7 (OUT)	2YR Projected	2	3,078.000	12.20	0.74	100.23	1,863.000
UGB7 (IN)	10YR Projected	10	10,096.000	12.10	3.03	(N/A)	(N/A)
UGB7 (OUT)	10YR Projected	10	7,123.000	12.20	1.39	100.66	2,685.000
UGB7 (IN)	100YR Projected	100	20,900.000	12.10	6.22	(N/A)	(N/A)
UGB7 (OUT)	100YR Projected	100	17,667.000	12.20	2.58	101.98	4,788.000
UGB3 (IN)	2YR Projected	2	25,366.000	17.40	0.51	(N/A)	(N/A)
UGB3 (OUT)	2YR Projected	2	23,920.000	17.65	0.48	85.89	482.000
UGB3 (IN)	10YR Projected	10	76,734.000	14.10	2.65	(N/A)	(N/A)
UGB3 (OUT)	10YR Projected	10	74,309.000	14.35	2.58	86.68	2,383.000
UGB3 (IN)	100YR Projected	100	212,594.000	12.45	22.18	(N/A)	(N/A)
UGB3 (OUT)	100YR Projected	100	212,574.000	12.55	21.25	90.23	11,119.000

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio1
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
77.00	0.00	0.000	0.110	0.00	0.00	0.00
77.10	0.00	480.991	0.111	0.08	0.08	5.43
77.20	0.00	965.654	0.112	0.08	0.08	10.81
77.30	0.00	1,454.003	0.113	0.09	0.09	16.24
77.40	0.00	1,946.052	0.113	0.09	0.09	21.71
77.50	0.00	2,441.815	0.114	0.09	0.09	27.22
77.52	0.00	2,541.414	0.114	0.09	0.09	28.32
77.60	0.03	2,941.305	0.115	0.09	0.12	32.80
77.70	0.16	3,444.537	0.116	0.09	0.25	38.52
77.80	0.37	3,951.524	0.117	0.09	0.46	44.36
77.90	0.65	4,462.281	0.118	0.09	0.73	50.32
78.00	0.97	4,976.822	0.119	0.09	1.06	56.36
78.10	1.33	5,495.160	0.119	0.09	1.42	62.48
78.20	1.60	6,017.309	0.120	0.09	1.69	68.55
78.30	1.80	6,543.284	0.121	0.09	1.89	74.59
78.40	1.97	7,073.099	0.122	0.09	2.07	80.66
78.50	2.13	7,606.767	0.123	0.09	2.23	86.75
78.60	2.28	8,144.302	0.124	0.09	2.38	92.87
78.70	2.42	8,685.718	0.125	0.09	2.52	99.03
78.80	2.56	9,231.030	0.126	0.10	2.65	105.22
78.90	2.68	9,780.251	0.127	0.10	2.78	111.45
79.00	2.80	10,333.395	0.127	0.10	2.90	117.72
79.10	2.92	10,890.476	0.128	0.10	3.02	124.02
79.20	3.03	11,451.508	0.129	0.10	3.13	130.37
79.30	3.14	12,016.506	0.130	0.10	3.24	136.75
79.40	3.24	12,585.482	0.131	0.10	3.34	143.18
79.50	3.34	13,158.451	0.132	0.10	3.44	149.65
79.60	3.44	13,735.428	0.133	0.10	3.54	156.16

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio1 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
79.70	3.54	14,316.425	0.134	0.10	3.64	162.71
79.80	3.63	14,901.457	0.135	0.10	3.73	169.30
79.90	3.72	15,490.538	0.136	0.10	3.82	175.94
80.00	3.81	16,083.682	0.137	0.10	3.91	182.62
80.10	3.89	16,680.902	0.138	0.10	4.00	189.34
80.20	3.98	17,282.213	0.139	0.10	4.08	196.11
80.30	4.06	17,887.629	0.139	0.11	4.16	202.92
80.40	4.14	18,497.164	0.140	0.11	4.25	209.77
80.50	4.22	19,110.831	0.141	0.11	4.32	216.67
80.60	4.30	19,728.645	0.142	0.11	4.40	223.61
80.70	4.37	20,350.619	0.143	0.11	4.48	230.60
80.80	4.45	20,976.768	0.144	0.11	4.56	237.63
80.90	4.52	21,607.105	0.145	0.11	4.63	244.71
81.00	4.59	22,241.644	0.146	0.11	4.70	251.83
81.10	4.67	22,880.400	0.147	0.11	4.78	259.00
81.20	4.74	23,523.387	0.148	0.11	4.85	266.22
81.30	4.80	24,170.617	0.149	0.11	4.92	273.48
81.40	4.87	24,822.106	0.150	0.11	4.99	280.79
81.50	4.94	25,477.867	0.151	0.11	5.05	288.14
81.60	5.01	26,137.914	0.152	0.11	5.12	295.54
81.70	5.07	26,802.262	0.153	0.12	5.19	302.99
81.80	5.14	27,470.923	0.154	0.12	5.25	310.49
81.90	5.20	28,143.913	0.155	0.12	5.32	318.03
82.00	5.26	28,821.245	0.156	0.12	5.38	325.62
82.10	5.33	29,502.932	0.157	0.12	5.45	333.26
82.20	5.39	30,188.990	0.158	0.12	5.51	340.94
82.30	5.45	30,879.432	0.159	0.12	5.57	348.68
82.40	5.51	31,574.271	0.160	0.12	5.63	356.46
82.50	5.57	32,273.522	0.161	0.12	5.69	364.29
82.60	5.63	32,977.199	0.162	0.12	5.75	372.17
82.70	5.69	33,685.316	0.163	0.12	5.81	380.09
82.80	5.75	34,397.887	0.164	0.12	5.87	388.07
82.90	5.80	35,114.925	0.165	0.12	5.93	396.09
83.00	5.86	35,836.445	0.166	0.13	5.99	404.17
83.10	5.92	36,562.461	0.167	0.13	6.04	412.29
83.20	5.97	37,292.986	0.168	0.13	6.10	420.47
83.30	6.03	38,028.035	0.169	0.13	6.15	428.69
83.40	6.08	38,767.621	0.170	0.13	6.21	436.96
83.50	6.14	39,511.759	0.171	0.13	6.27	445.28
83.60	6.19	40,260.462	0.172	0.13	6.32	453.66
83.70	6.24	41,013.744	0.173	0.13	6.37	462.08
83.80	6.30	41,771.620	0.175	0.13	6.43	470.56
83.90	6.35	42,534.103	0.176	0.13	6.48	479.08

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio1 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
84.00	6.40	43,301.208	0.177	0.13	6.53	487.66
84.10	6.45	44,072.947	0.178	0.13	6.59	496.28
84.20	6.50	44,849.336	0.179	0.14	6.64	504.96
84.30	6.55	45,630.388	0.180	0.14	6.69	513.69
84.40	6.60	46,416.118	0.181	0.14	6.74	522.47
84.50	6.65	47,206.538	0.182	0.14	6.79	531.31
84.60	6.70	48,001.663	0.183	0.14	6.84	540.19
84.65	6.73	48,400.995	0.184	0.14	6.87	544.66
84.70	6.88	48,801.508	0.184	0.14	7.02	549.26
84.80	7.48	49,606.085	0.185	0.14	7.62	558.80
84.90	8.31	50,415.409	0.186	0.14	8.45	568.62
85.00	9.32	51,229.495	0.187	0.14	9.46	578.68
85.10	10.48	52,048.355	0.189	0.14	10.62	588.93
85.20	11.77	52,872.003	0.190	0.14	11.91	599.38
85.30	13.17	53,700.455	0.191	0.14	13.32	609.99
85.40	14.69	54,533.724	0.192	0.15	14.83	620.76
85.50	16.30	55,371.823	0.193	0.15	16.45	631.69
85.55	17.15	55,792.688	0.194	0.15	17.29	637.21
85.60	18.16	56,214.766	0.194	0.15	18.31	642.92
85.70	20.60	57,062.569	0.195	0.15	20.75	654.77
85.80	23.39	57,915.244	0.196	0.15	23.54	667.04
85.90	26.46	58,772.806	0.197	0.15	26.61	679.64
86.00	29.79	59,635.268	0.199	0.15	29.94	692.55
86.10	33.34	60,502.644	0.200	0.15	33.49	705.74
86.20	37.10	61,374.949	0.201	0.15	37.26	719.20
86.30	41.06	62,252.197	0.202	0.15	41.21	732.91
86.40	45.20	63,134.401	0.203	0.15	45.36	746.85
86.50	49.52	64,021.575	0.204	0.15	49.68	761.03
86.60	56.61	64,913.733	0.205	0.16	56.77	778.03
86.70	63.86	65,810.890	0.207	0.16	64.02	795.25
86.80	71.26	66,713.059	0.208	0.16	71.42	812.68
86.90	78.82	67,620.254	0.209	0.16	78.98	830.31
87.00	86.52	68,532.489	0.210	0.16	86.68	848.15
87.10	91.91	69,451.562	0.212	0.16	92.07	863.75
87.20	97.44	70,379.285	0.214	0.16	97.60	879.59
87.30	103.10	71,315.700	0.216	0.16	103.26	895.66
87.40	108.89	72,260.847	0.218	0.16	109.06	911.96
87.50	114.81	73,214.767	0.220	0.17	114.98	928.47
87.60	120.85	74,185.793	0.226	0.17	121.03	945.31
87.70	127.02	75,182.455	0.232	0.18	127.20	962.56
87.80	133.30	76,205.085	0.238	0.18	133.48	980.21
87.90	139.71	77,254.018	0.244	0.18	139.89	998.27
88.00	146.22	78,329.588	0.250	0.19	146.41	1,016.74

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio1 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	25.45 ft³/s	Time to Peak (Flow, In)	12.25 hours
Infiltration (Peak)	0.14 ft³/s	Time to Peak (Infiltration)	13.10 hours
Flow (Peak Outlet)	11.00 ft³/s	Time to Peak (Flow, Outlet)	13.10 hours

Elevation (Water Surface, Peak)	85.14 ft
Volume (Peak)	52,381.705 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	200,910.000 ft³
Volume (Total Infiltration)	11,196.000 ft³
Volume (Total Outlet Outflow)	189,711.000 ft³
Volume (Retained)	2.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio1 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	65.12 ft³/s	Time to Peak (Flow, In)	12.20 hours
Infiltration (Peak)	0.16 ft³/s	Time to Peak (Infiltration)	12.30 hours
Flow (Peak Outlet)	58.60 ft³/s	Time to Peak (Flow, Outlet)	12.30 hours

Elevation (Water Surface, Peak)	86.63 ft
Volume (Peak)	65,159.747 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	438,588.000 ft³
Volume (Total Infiltration)	14,578.000 ft³
Volume (Total Outlet Outflow)	423,874.000 ft³
Volume (Retained)	136.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: Bio1 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
77.00	4,791.6	0.00
77.10	4,828.2	0.08
77.20	4,865.0	0.08
77.30	4,902.0	0.09
77.40	4,939.0	0.09
77.50	4,976.2	0.09
77.52	4,983.7	0.09
77.60	5,013.6	0.09
77.70	5,051.1	0.09
77.80	5,088.7	0.09
77.90	5,126.5	0.09
78.00	5,164.4	0.09
78.10	5,202.4	0.09
78.20	5,240.6	0.09
78.30	5,278.9	0.09
78.40	5,317.4	0.09
78.50	5,356.0	0.09
78.60	5,394.7	0.09
78.70	5,433.6	0.09
78.80	5,472.6	0.10
78.90	5,511.8	0.10
79.00	5,551.1	0.10
79.10	5,590.5	0.10
79.20	5,630.1	0.10
79.30	5,669.8	0.10
79.40	5,709.7	0.10
79.50	5,749.7	0.10
79.60	5,789.8	0.10
79.70	5,830.1	0.10
79.80	5,870.5	0.10
79.90	5,911.1	0.10
80.00	5,951.8	0.10
80.10	5,992.6	0.10
80.20	6,033.6	0.10
80.30	6,074.7	0.11
80.40	6,116.0	0.11
80.50	6,157.4	0.11
80.60	6,198.9	0.11
80.70	6,240.6	0.11
80.80	6,282.4	0.11
80.90	6,324.4	0.11
81.00	6,366.5	0.11

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: Bio1 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
81.10	6,408.7	0.11
81.20	6,451.1	0.11
81.30	6,493.6	0.11
81.40	6,536.2	0.11
81.50	6,579.0	0.11
81.60	6,622.0	0.11
81.70	6,665.0	0.12
81.80	6,708.2	0.12
81.90	6,751.6	0.12
82.00	6,795.1	0.12
82.10	6,838.7	0.12
82.20	6,882.5	0.12
82.30	6,926.4	0.12
82.40	6,970.4	0.12
82.50	7,014.6	0.12
82.60	7,058.9	0.12
82.70	7,103.4	0.12
82.80	7,148.0	0.12
82.90	7,192.8	0.12
83.00	7,237.7	0.13
83.10	7,282.7	0.13
83.20	7,327.8	0.13
83.30	7,373.2	0.13
83.40	7,418.6	0.13
83.50	7,464.2	0.13
83.60	7,509.9	0.13
83.70	7,555.8	0.13
83.80	7,601.8	0.13
83.90	7,647.9	0.13
84.00	7,694.2	0.13
84.10	7,740.6	0.13
84.20	7,787.2	0.14
84.30	7,833.9	0.14
84.40	7,880.7	0.14
84.50	7,927.7	0.14
84.60	7,974.8	0.14
84.65	7,998.4	0.14
84.70	8,022.1	0.14
84.80	8,069.5	0.14
84.90	8,117.0	0.14
85.00	8,164.7	0.14
85.10	8,212.5	0.14

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: Bio1 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
85.20	8,260.5	0.14
85.30	8,308.6	0.14
85.40	8,356.8	0.15
85.50	8,405.2	0.15
85.55	8,429.4	0.15
85.60	8,453.7	0.15
85.70	8,502.4	0.15
85.80	8,551.2	0.15
85.90	8,600.1	0.15
86.00	8,649.2	0.15
86.10	8,698.4	0.15
86.20	8,747.7	0.15
86.30	8,797.2	0.15
86.40	8,846.9	0.15
86.50	8,896.6	0.15
86.60	8,946.6	0.16
86.70	8,996.6	0.16
86.80	9,046.8	0.16
86.90	9,097.1	0.16
87.00	9,147.6	0.16
87.10	9,233.9	0.16
87.20	9,320.6	0.16
87.30	9,407.7	0.16
87.40	9,495.3	0.16
87.50	9,583.2	0.17
87.60	9,837.9	0.17
87.70	10,095.9	0.18
87.80	10,357.3	0.18
87.90	10,622.0	0.18
88.00	10,890.0	0.19

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio1 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	144.19 ft³/s	Time to Peak (Flow, In)	12.15 hours
Infiltration (Peak)	0.18 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	140.01 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	87.90 ft
Volume (Peak)	77,303.047 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,024,376.000 ft³
Volume (Total Infiltration)	16,956.000 ft³
Volume (Total Outlet Outflow)	1,006,790.000 ft³
Volume (Retained)	630.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio1 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio1'

Upstream Link	Upstream Node
Out4	UGB4
Out11	UGB11
Out 12	Bio12
Out7	UGB7
<Catchment to Outflow Node>	DA1 Perv Basin
Out5	UGB5
Out8	Infil8
<Catchment to Outflow Node>	DA1 Imp
Out10	UGB10
<Catchment to Outflow Node>	DA1 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out4	5,230.315	12.25	1.10
Flow (From)	Out11	33,835.506	12.10	4.35
Flow (From)	Out 12	120,984.640	12.25	14.98
Flow (From)	Out7	3,078.042	12.20	0.74
Flow (From)	DA1 Perv Basin	1,061.802	12.10	0.35
Flow (From)	Out5	14,817.326	12.20	2.18
Flow (From)	Out8	2,560.430	12.50	0.26
Flow (From)	DA1 Imp	6,962.419	12.10	2.17
Flow (From)	Out10	9,248.058	12.15	2.23
Flow (From)	DA1 Perv	3,131.192	12.15	0.81
Flow (In)	Bio1	200,909.730	12.25	25.45

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio1 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio1'

Upstream Link	Upstream Node
Out4	UGB4
Out11	UGB11
Out 12	Bio12
Out7	UGB7
<Catchment to Outflow Node>	DA1 Perv Basin
Out5	UGB5
Out8	Infil8
<Catchment to Outflow Node>	DA1 Imp
Out10	UGB10
<Catchment to Outflow Node>	DA1 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out4	12,569.721	12.20	3.01
Flow (From)	Out11	67,034.386	12.10	9.02
Flow (From)	Out 12	278,719.282	12.20	39.70
Flow (From)	Out7	7,123.040	12.20	1.39
Flow (From)	DA1 Perv Basin	2,620.480	12.10	0.90
Flow (From)	Out5	27,619.900	12.15	6.39
Flow (From)	Out8	6,592.570	12.25	0.89
Flow (From)	DA1 Imp	11,435.218	12.10	3.47
Flow (From)	Out10	16,999.422	12.15	4.03
Flow (From)	DA1 Perv	7,874.387	12.15	2.21
Flow (In)	Bio1	438,588.408	12.20	65.12

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio1 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio1'

Upstream Link	Upstream Node
Out4	UGB4
Out11	UGB11
Out 12	Bio12
Out7	UGB7
<Catchment to Outflow Node>	DA1 Perv Basin
Out5	UGB5
Out8	Infil8
<Catchment to Outflow Node>	DA1 Imp
Out10	UGB10
<Catchment to Outflow Node>	DA1 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out4	30,779.719	12.15	7.30
Flow (From)	Out11	150,785.659	12.15	22.00
Flow (From)	Out 12	667,457.905	12.20	88.93
Flow (From)	Out7	17,667.437	12.20	2.58
Flow (From)	DA1 Perv Basin	6,990.960	12.10	2.38
Flow (From)	Out5	54,558.789	12.05	7.70
Flow (From)	Out8	17,314.325	12.15	2.39
Flow (From)	DA1 Imp	21,771.974	12.10	6.47
Flow (From)	Out10	35,730.202	12.10	9.02
Flow (From)	DA1 Perv	21,319.047	12.15	5.99
Flow (In)	Bio1	1,024,376.018	12.15	144.19

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio12
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
85.25	0.00	0.000	0.125	0.00	0.00	0.00
85.35	0.00	545.939	0.126	0.08	0.08	6.15
85.45	0.00	1,094.761	0.126	0.08	0.08	12.25
85.55	0.00	1,646.474	0.127	0.08	0.08	18.38
85.65	0.00	2,201.085	0.128	0.08	0.08	24.54
85.75	0.00	2,758.602	0.128	0.08	0.08	30.74
85.85	0.00	3,319.033	0.129	0.08	0.08	36.96
85.95	0.00	3,882.384	0.130	0.08	0.08	43.22
86.05	0.00	4,448.833	0.130	0.09	0.09	49.52
86.15	0.00	5,019.397	0.131	0.09	0.09	55.86
86.25	0.14	5,594.260	0.132	0.09	0.23	62.39
86.35	0.40	6,173.440	0.133	0.09	0.49	69.08
86.45	0.74	6,756.951	0.134	0.09	0.83	75.90
86.55	1.14	7,344.810	0.135	0.09	1.23	82.84
86.65	1.59	7,937.033	0.136	0.09	1.68	89.87
86.75	2.09	8,533.636	0.137	0.09	2.18	97.00
86.85	2.64	9,134.635	0.138	0.09	2.73	104.22
86.95	3.22	9,740.047	0.139	0.09	3.31	111.53
87.05	3.98	10,350.387	0.141	0.09	4.07	119.07
87.15	5.20	10,968.680	0.143	0.09	5.29	127.17
87.25	6.69	11,595.481	0.145	0.09	6.79	135.63
87.35	8.40	12,230.849	0.147	0.10	8.50	144.39
87.45	10.29	12,874.842	0.149	0.10	10.39	153.44
87.55	12.35	13,527.517	0.151	0.10	12.45	162.75
87.65	14.56	14,188.934	0.153	0.10	14.66	172.31
87.75	16.90	14,859.150	0.155	0.10	17.00	182.10
87.85	19.31	15,538.223	0.157	0.10	19.41	192.06
87.95	21.80	16,226.212	0.159	0.10	21.90	202.19

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio12 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
88.05	24.50	16,923.106	0.161	0.11	24.60	212.64
88.15	27.67	17,628.549	0.163	0.11	27.78	223.65
88.25	31.10	18,342.525	0.165	0.11	31.20	235.01
88.35	34.68	19,065.084	0.167	0.11	34.79	246.62
88.45	37.10	19,796.279	0.169	0.11	37.21	257.17
88.55	41.63	20,536.160	0.171	0.11	41.74	269.92
88.65	46.38	21,284.779	0.173	0.11	46.49	282.99
88.75	51.33	22,042.186	0.175	0.11	51.44	296.36
88.85	60.19	22,808.434	0.177	0.12	60.31	313.73
88.95	69.23	23,583.573	0.179	0.12	69.35	331.39
89.05	78.90	24,367.595	0.181	0.12	79.02	349.77
89.15	86.37	25,160.182	0.183	0.12	86.49	366.05
89.25	92.79	25,961.321	0.185	0.12	92.91	381.37
89.35	98.84	26,771.057	0.187	0.12	98.97	396.42
89.45	105.05	27,589.436	0.189	0.12	105.18	411.73
89.55	111.41	28,416.505	0.191	0.13	111.54	427.28
89.65	117.92	29,252.308	0.193	0.13	118.05	443.07
89.75	124.57	30,096.892	0.195	0.13	124.70	459.11
89.85	131.36	30,950.303	0.197	0.13	131.49	475.38
89.95	138.29	31,812.587	0.199	0.13	138.42	491.89
90.00	141.80	32,247.070	0.200	0.13	141.93	500.23

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Bio12 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	17.58 ft³/s	Time to Peak (Flow, In)	12.15 hours
Infiltration (Peak)	0.10 ft³/s	Time to Peak (Infiltration)	12.25 hours
Flow (Peak Outlet)	14.98 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	87.67 ft
Volume (Peak)	14,311.041 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	134,170.000 ft³
Volume (Total Infiltration)	12,439.000 ft³
Volume (Total Outlet Outflow)	120,985.000 ft³
Volume (Retained)	746.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio12 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	43.99 ft³/s	Time to Peak (Flow, In)	12.15 hours
Infiltration (Peak)	0.11 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	39.70 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	88.51 ft
Volume (Peak)	20,219.118 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	294,741.000 ft³
Volume (Total Infiltration)	13,359.000 ft³
Volume (Total Outlet Outflow)	278,719.000 ft³
Volume (Retained)	2,663.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: Bio12 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
85.25	5,445.0	0.00
85.35	5,473.8	0.08
85.45	5,502.7	0.08
85.55	5,531.6	0.08
85.65	5,560.6	0.08
85.75	5,589.7	0.08
85.85	5,618.9	0.08
85.95	5,648.1	0.08
86.05	5,684.2	0.09
86.15	5,727.1	0.09
86.25	5,770.2	0.09
86.35	5,813.4	0.09
86.45	5,856.8	0.09
86.55	5,900.4	0.09
86.65	5,944.1	0.09
86.75	5,988.0	0.09
86.85	6,032.0	0.09
86.95	6,076.2	0.09
87.05	6,140.6	0.09
87.15	6,225.4	0.09
87.25	6,310.7	0.09
87.35	6,396.7	0.10
87.45	6,483.2	0.10
87.55	6,570.4	0.10
87.65	6,658.1	0.10
87.75	6,746.3	0.10
87.85	6,835.2	0.10
87.95	6,924.7	0.10
88.05	7,011.9	0.11
88.15	7,097.0	0.11
88.25	7,182.6	0.11
88.35	7,268.7	0.11
88.45	7,355.3	0.11
88.55	7,442.4	0.11
88.65	7,530.0	0.11
88.75	7,618.2	0.11
88.85	7,706.9	0.12
88.95	7,796.0	0.12
89.05	7,883.3	0.12
89.15	7,968.6	0.12
89.25	8,054.3	0.12
89.35	8,140.5	0.12

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: Bio12 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
89.45	8,227.2	0.12
89.55	8,314.3	0.13
89.65	8,401.9	0.13
89.75	8,489.9	0.13
89.85	8,578.4	0.13
89.95	8,667.4	0.13
90.00	8,712.0	0.13

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio12 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	105.70 ft³/s	Time to Peak (Flow, In)	12.15 hours
Infiltration (Peak)	0.12 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	103.05 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	89.42 ft
Volume (Peak)	27,323.887 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	706,327.000 ft³
Volume (Total Infiltration)	14,473.000 ft³
Volume (Total Outlet Outflow)	688,213.000 ft³
Volume (Retained)	3,641.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio12 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio12'

Upstream Link	Upstream Node
Out41	UGB41
Out55	UGB55
Out53	Bio53
Out52	Bio52
Out54	UGB54
Out3	UGB3
Out18	UGB18
<Catchment to Outflow Node>	DA12A Perv
Out2	UGB2
<Catchment to Outflow Node>	DA12A Imp
Out22	UGB22

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out41	1,984.718	12.10	0.63
Flow (From)	Out55	22,275.443	12.35	1.91
Flow (From)	Out53	4,025.567	12.15	0.91
Flow (From)	Out52	9,140.432	12.15	2.13
Flow (From)	Out54	3,770.625	12.10	1.03
Flow (From)	Out3	23,920.428	17.65	0.48
Flow (From)	Out18	33,198.834	12.20	5.14
Flow (From)	DA12A Perv	6,665.145	12.20	1.44
Flow (From)	Out2	19,065.077	12.15	4.50
Flow (From)	DA12A Imp	4,789.780	12.10	1.41
Flow (From)	Out22	5,333.785	13.30	0.28
Flow (In)	Bio12	134,169.833	12.15	17.58

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio12 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio12'

Upstream Link	Upstream Node
Out41	UGB41
Out55	UGB55
Out53	Bio53
Out52	Bio52
Out54	UGB54
Out3	UGB3
Out18	UGB18
<Catchment to Outflow Node>	DA12A Perv
Out2	UGB2
<Catchment to Outflow Node>	DA12A Imp
Out22	UGB22

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out41	3,488.824	12.10	1.03
Flow (From)	Out55	41,952.676	12.15	6.21
Flow (From)	Out53	8,510.595	12.15	1.89
Flow (From)	Out52	19,023.032	12.15	4.26
Flow (From)	Out54	6,829.076	12.10	1.90
Flow (From)	Out3	74,308.795	14.35	2.58
Flow (From)	Out18	63,272.036	12.20	13.62
Flow (From)	DA12A Perv	18,225.984	12.20	4.49
Flow (From)	Out2	36,800.152	12.15	8.89
Flow (From)	DA12A Imp	7,777.468	12.10	2.24
Flow (From)	Out22	14,552.558	12.35	1.55
Flow (In)	Bio12	294,741.195	12.15	43.99

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio12 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio12'

Upstream Link	Upstream Node
Out41	UGB41
Out55	UGB55
Out53	Bio53
Out52	Bio52
Out54	UGB54
Out3	UGB3
Out18	UGB18
<Catchment to Outflow Node>	DA12A Perv
Out2	UGB2
<Catchment to Outflow Node>	DA12A Imp
Out22	UGB22

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out41	7,039.967	12.10	1.79
Flow (From)	Out55	88,596.158	12.15	17.85
Flow (From)	Out53	20,174.676	12.15	4.38
Flow (From)	Out52	44,900.792	12.15	9.78
Flow (From)	Out54	14,255.890	12.10	3.63
Flow (From)	Out3	212,573.762	12.55	21.25
Flow (From)	Out18	136,248.250	12.15	27.89
Flow (From)	DA12A Perv	52,584.751	12.15	13.23
Flow (From)	Out2	77,918.826	12.05	13.43
Flow (From)	DA12A Imp	14,673.366	12.10	4.17
Flow (From)	Out22	37,360.736	12.20	6.03
Flow (In)	Bio12	706,327.173	12.15	105.70

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio25
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.00	0.00	0.000	0.310	0.00	0.00	0.00
100.25	0.00	3,428.974	0.320	0.00	0.00	38.10
100.50	0.00	6,965.196	0.330	0.00	0.00	77.39
100.75	0.00	10,610.318	0.340	0.00	0.00	117.89
101.00	0.00	14,365.992	0.350	0.00	0.00	159.62
101.25	0.00	18,230.715	0.360	0.00	0.00	202.56
101.35	0.00	19,806.601	0.364	0.00	0.00	220.07
101.50	0.03	22,202.865	0.370	0.00	0.03	246.73
101.75	0.12	26,283.915	0.380	0.00	0.12	292.17
102.00	0.17	30,475.338	0.390	0.00	0.17	338.79
102.25	0.77	34,775.780	0.400	0.00	0.77	387.17
102.50	1.83	39,183.794	0.410	0.00	1.83	437.21
102.75	3.19	43,700.708	0.420	0.00	3.19	488.75
103.00	4.79	48,327.850	0.430	0.00	4.79	541.77
103.25	6.60	53,077.054	0.442	0.00	6.60	596.35
103.50	8.60	57,960.510	0.455	0.00	8.60	652.61
103.75	10.77	62,980.092	0.467	0.00	10.77	710.55
104.00	13.10	68,137.670	0.480	0.00	13.10	770.19

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio25 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.47 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.10 ft³/s	Time to Peak (Flow, Outlet)	24.00 hours

Elevation (Water Surface, Peak)	101.69 ft
Volume (Peak)	25,367.324 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	28,202.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	6,917.000 ft³
Volume (Retained)	21,276.000 ft³
Volume (Unrouted)	-8.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio25 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	13.32 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.81 ft³/s	Time to Peak (Flow, Outlet)	14.20 hours

Elevation (Water Surface, Peak)	102.26 ft
Volume (Peak)	34,933.847 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	51,512.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	29,155.000 ft³
Volume (Retained)	22,348.000 ft³
Volume (Unrouted)	-8.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio25 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	27.79 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	7.71 ft³/s	Time to Peak (Flow, Outlet)	12.45 hours

Elevation (Water Surface, Peak)	103.39 ft
Volume (Peak)	55,773.475 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	110,599.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	88,050.000 ft³
Volume (Retained)	22,538.000 ft³
Volume (Unrouted)	-12.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio25 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio25'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA25 Imp
<Catchment to Outflow Node>	DA25 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA25 Imp	24,107.780	12.10	6.92
Flow (From)	DA25 Perv	4,094.405	12.20	0.85
Flow (In)	Bio25	28,202.186	12.10	7.47

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio25 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio25'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA25 Imp
<Catchment to Outflow Node>	DA25 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA25 Imp	40,050.805	12.10	11.18
Flow (From)	DA25 Perv	11,461.414	12.20	2.79
Flow (In)	Bio25	51,512.219	12.10	13.32

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio25 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio25'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA25 Imp
<Catchment to Outflow Node>	DA25 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA25 Imp	76,959.399	12.10	20.93
Flow (From)	DA25 Perv	33,640.098	12.20	8.36
Flow (In)	Bio25	110,599.497	12.10	27.79

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio26 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
97.00	0.00	0.000	0.100	0.00	0.00	0.00
97.25	0.00	1,151.333	0.112	0.06	0.06	12.85
97.50	0.00	2,431.915	0.124	0.06	0.06	27.08
97.75	0.00	3,848.622	0.137	0.07	0.07	42.83
97.80	0.00	4,148.903	0.139	0.07	0.07	46.17
98.00	0.27	5,408.330	0.150	0.08	0.34	60.44
98.25	0.91	7,105.820	0.162	0.08	0.99	79.94
98.50	1.76	8,934.548	0.174	0.09	1.84	101.12
98.75	3.34	10,899.402	0.187	0.09	3.43	124.54
99.00	5.53	13,005.267	0.200	0.10	5.64	150.14
99.25	8.16	15,222.916	0.207	0.10	8.27	177.41
99.50	11.15	17,520.814	0.215	0.11	11.26	205.93
99.75	14.46	19,900.386	0.222	0.11	14.57	235.69
99.87	16.15	21,072.011	0.226	0.11	16.26	250.40
100.00	18.80	22,363.060	0.230	0.12	18.91	267.39
100.25	25.63	24,921.454	0.240	0.12	25.75	302.66
100.50	31.77	27,588.747	0.250	0.13	31.89	338.44

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Bio26 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.45 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.09 ft³/s	Time to Peak (Infiltration)	12.35 hours
Flow (Peak Outlet)	2.96 ft³/s	Time to Peak (Flow, Outlet)	12.35 hours

Elevation (Water Surface, Peak)	98.69 ft
Volume (Peak)	10,418.553 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	28,433.000 ft³
Volume (Total Infiltration)	8,590.000 ft³
Volume (Total Outlet Outflow)	19,650.000 ft³
Volume (Retained)	185.000 ft³
Volume (Unrouted)	-9.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio26 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	15.72 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.10 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	8.47 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	99.28 ft
Volume (Peak)	15,456.940 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	53,679.000 ft³
Volume (Total Infiltration)	9,456.000 ft³
Volume (Total Outlet Outflow)	44,000.000 ft³
Volume (Retained)	213.000 ft³
Volume (Unrouted)	-10.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: Bio26 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
97.00	4,356.0	0.00
97.25	4,859.2	0.06
97.50	5,390.0	0.06
97.75	5,948.2	0.07
97.80	6,063.2	0.07
98.00	6,534.0	0.08
98.25	7,049.2	0.08
98.50	7,583.9	0.09
98.75	8,138.2	0.09
99.00	8,712.0	0.10
99.25	9,030.1	0.10
99.50	9,354.0	0.11
99.75	9,683.5	0.11
99.87	9,843.8	0.11
100.00	10,018.8	0.12
100.25	10,449.9	0.12
100.50	10,890.0	0.13

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio26 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	32.90 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.12 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	21.94 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	100.12 ft
Volume (Peak)	23,526.848 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	116,481.000 ft³
Volume (Total Infiltration)	10,524.000 ft³
Volume (Total Outlet Outflow)	105,701.000 ft³
Volume (Retained)	245.000 ft³
Volume (Unrouted)	-11.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio26 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio26'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA26 Imp
<Catchment to Outflow Node>	DA26 Perv
Out27	UGB27

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA26 Imp	19,860.794	12.10	6.06
Flow (From)	DA26 Perv	3,292.494	12.15	0.76
Flow (From)	Out27	5,279.968	12.15	1.89
Flow (In)	Bio26	28,433.256	12.10	8.45

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio26 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio26'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA26 Imp
<Catchment to Outflow Node>	DA26 Perv
Out27	UGB27

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA26 Imp	32,995.348	12.10	9.79
Flow (From)	DA26 Perv	9,216.784	12.15	2.52
Flow (From)	Out27	11,466.687	12.10	3.82
Flow (In)	Bio26	53,678.819	12.10	15.72

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio26 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio26'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA26 Imp
<Catchment to Outflow Node>	DA26 Perv
Out27	UGB27

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA26 Imp	63,402.197	12.10	18.32
Flow (From)	DA26 Perv	27,051.973	12.15	7.61
Flow (From)	Out27	26,027.194	12.10	7.97
Flow (In)	Bio26	116,481.364	12.10	32.90

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio28 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
91.00	0.00	0.000	0.095	0.00	0.00	0.00
91.05	0.00	207.698	0.096	0.00	0.00	2.31
91.10	0.00	416.975	0.096	0.00	0.00	4.63
91.15	0.00	627.838	0.097	0.00	0.00	6.98
91.20	0.00	840.293	0.098	0.00	0.00	9.34
91.25	0.00	1,054.345	0.099	0.00	0.00	11.71
91.30	0.00	1,270.001	0.099	0.00	0.00	14.11
91.35	0.00	1,487.267	0.100	0.00	0.00	16.53
91.40	0.00	1,706.148	0.101	0.00	0.00	18.96
91.45	0.00	1,926.650	0.102	0.00	0.00	21.41
91.50	0.00	2,148.780	0.102	0.00	0.00	23.88
91.55	0.03	2,372.544	0.103	0.00	0.03	26.40
91.60	0.09	2,597.947	0.104	0.00	0.09	28.96
91.65	0.17	2,824.995	0.105	0.00	0.17	31.56
91.70	0.27	3,053.695	0.105	0.00	0.27	34.20
91.75	0.38	3,284.053	0.106	0.00	0.38	36.86
91.80	0.49	3,516.073	0.107	0.00	0.49	39.56
91.85	0.62	3,749.764	0.108	0.00	0.62	42.29
91.90	0.76	3,985.129	0.108	0.00	0.76	45.04
91.95	0.91	4,222.176	0.109	0.00	0.91	47.82
92.00	1.06	4,460.911	0.110	0.00	1.06	50.63
92.05	1.22	4,701.282	0.111	0.00	1.22	53.46
92.10	1.39	4,943.240	0.111	0.00	1.39	56.32
92.15	1.57	5,186.790	0.112	0.00	1.57	59.20
92.20	1.76	5,431.937	0.113	0.00	1.76	62.11
92.25	1.95	5,678.686	0.114	0.00	1.95	65.05
92.30	2.15	5,927.042	0.114	0.00	2.15	68.00
92.35	2.35	6,177.011	0.115	0.00	2.35	70.98
92.40	2.56	6,428.598	0.116	0.00	2.56	73.99

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio28 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
92.45	2.77	6,681.808	0.117	0.00	2.77	77.02
92.50	2.99	6,936.646	0.117	0.00	2.99	80.06
92.55	3.21	7,193.118	0.118	0.00	3.21	83.13
92.60	3.43	7,451.228	0.119	0.00	3.43	86.22
92.65	3.66	7,710.982	0.120	0.00	3.66	89.34
92.70	3.89	7,972.386	0.120	0.00	3.89	92.48
92.75	4.13	8,235.444	0.121	0.00	4.13	95.64
92.80	4.37	8,500.161	0.122	0.00	4.37	98.82
92.85	4.62	8,766.544	0.123	0.00	4.62	102.02
92.90	4.87	9,034.596	0.123	0.00	4.87	105.25
92.95	5.12	9,304.323	0.124	0.00	5.12	108.50
93.00	5.38	9,575.731	0.125	0.00	5.38	111.77
93.05	5.64	9,848.879	0.126	0.00	5.64	115.07
93.10	5.90	10,123.824	0.127	0.00	5.90	118.39
93.15	6.17	10,400.573	0.127	0.00	6.17	121.73
93.20	6.44	10,679.133	0.128	0.00	6.44	125.10
93.25	6.72	10,959.508	0.129	0.00	6.72	128.49
93.30	7.00	11,241.705	0.130	0.00	7.00	131.91
93.35	7.28	11,525.730	0.131	0.00	7.28	135.34
93.40	7.57	11,811.589	0.132	0.00	7.57	138.81
93.45	7.86	12,099.287	0.133	0.00	7.86	142.29
93.50	8.15	12,388.830	0.133	0.00	8.15	145.81
93.55	8.45	12,680.225	0.134	0.00	8.45	149.34
93.60	8.75	12,973.476	0.135	0.00	8.75	152.90
93.65	9.05	13,268.591	0.136	0.00	9.05	156.48
93.70	9.38	13,565.575	0.137	0.00	9.38	160.11
93.75	9.67	13,864.434	0.138	0.00	9.67	163.72
93.80	9.98	14,165.174	0.139	0.00	9.98	167.37
93.85	10.30	14,467.800	0.139	0.00	10.30	171.05
93.90	10.62	14,772.319	0.140	0.00	10.62	174.75
93.95	10.94	15,078.737	0.141	0.00	10.94	178.48
94.00	11.26	15,387.058	0.142	0.00	11.26	182.23
94.05	11.59	15,697.286	0.143	0.00	11.59	186.01
94.10	11.92	16,009.422	0.144	0.00	11.92	189.80
94.15	12.26	16,323.470	0.145	0.00	12.26	193.63
94.20	12.59	16,639.439	0.146	0.00	12.59	197.47
94.25	12.93	16,957.332	0.146	0.00	12.93	201.34
94.30	13.27	17,277.156	0.147	0.00	13.27	205.24
94.35	13.61	17,598.917	0.148	0.00	13.61	209.16
94.40	13.96	17,922.621	0.149	0.00	13.96	213.10
94.45	14.30	18,248.273	0.150	0.00	14.30	217.06
94.50	14.65	18,575.879	0.151	0.00	14.65	221.05
94.55	15.00	18,905.446	0.152	0.00	15.00	225.07

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio28
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
94.60	15.36	19,236.979	0.153	0.00	15.36	229.10
94.65	15.71	19,570.484	0.154	0.00	15.71	233.16
94.70	16.07	19,905.966	0.154	0.00	16.07	237.25
94.75	16.42	20,243.432	0.155	0.00	16.42	241.35
94.80	16.78	20,582.887	0.156	0.00	16.78	245.48
94.85	17.14	20,924.338	0.157	0.00	17.14	249.63
94.90	17.50	21,267.790	0.158	0.00	17.50	253.81
94.95	17.86	21,613.249	0.159	0.00	17.86	258.00
95.00	18.21	21,960.720	0.160	0.00	18.21	262.22

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio28 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.65 ft^3/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.70 ft^3/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	92.66 ft
Volume (Peak)	7,755.132 ft^3

Mass Balance (ft^3)	
Volume (Initial)	0.000 ft^3
Volume (Total Inflow)	27,250.000 ft^3
Volume (Total Infiltration)	0.000 ft^3
Volume (Total Outlet Outflow)	25,101.000 ft^3
Volume (Retained)	2,149.000 ft^3
Volume (Unrouted)	0.000 ft^3
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio28 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	13.76 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	7.18 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	93.33 ft
Volume (Peak)	11,422.558 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	49,784.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	47,635.000 ft³
Volume (Retained)	2,149.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio28 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	30.64 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	16.31 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	94.73 ft
Volume (Peak)	20,136.225 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	106,493.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	104,344.000 ft³
Volume (Retained)	2,149.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio28 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio28'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA28 Perv
<Catchment to Outflow Node>	DA28 Imp
Out29	INFIL29

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA28 Perv	2,241.240	12.15	0.56
Flow (From)	DA28 Imp	11,605.445	12.10	3.63
Flow (From)	Out29	13,402.924	12.10	3.56
Flow (In)	Bio28	27,249.609	12.10	7.65

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio28 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio28'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA28 Perv
<Catchment to Outflow Node>	DA28 Imp
Out29	INFIL29

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA28 Perv	6,273.910	12.15	1.82
Flow (From)	DA28 Imp	19,060.493	12.10	5.82
Flow (From)	Out29	24,449.574	12.10	6.31
Flow (In)	Bio28	49,783.977	12.10	13.76

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio28 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio28'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA28 Perv
<Catchment to Outflow Node>	DA28 Imp
Out29	INFIL29

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA28 Perv	18,414.206	12.15	5.41
Flow (From)	DA28 Imp	36,289.478	12.10	10.83
Flow (From)	Out29	51,789.011	12.10	14.77
Flow (In)	Bio28	106,492.694	12.10	30.64

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio35
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	103.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	18.20	105.21	9,145.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.10	1.14	0.00	0.00
Infiltration...	18.20	0.00	0.00	0.00
Pond Outflow...	18.20	0.45	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	30,327.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	7,501.000	Forward
Pond Outflow...	0.000	Reverse	22,215.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	30,327.000 ft³
Volume (Total Out ICPM)	29,716.000 ft³
Volume (Ending)	609.000 ft³
Elevation (Ending)	103.54 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio35
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	103.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	14.20	106.06	14,597.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.75	4.42	0.00	0.00
Infiltration...	14.20	0.00	0.00	0.00
Pond Outflow...	14.20	2.38	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	77,591.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	8,978.000	Forward
Pond Outflow...	0.000	Reverse	67,275.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	77,591.000 ft³
Volume (Total Out ICPM)	76,254.000 ft³
Volume (Ending)	1,332.000 ft³
Elevation (Ending)	103.71 ft
Difference	5.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: Bio35 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
103.40	3,920.4	0.00
103.65	4,272.8	0.05
103.90	4,640.3	0.05
104.15	4,917.6	0.06
104.40	5,131.4	0.06
104.65	5,349.6	0.06
104.90	5,572.4	0.06
105.15	5,850.2	0.07
105.40	6,169.3	0.07
105.65	6,496.8	0.08
105.75	6,630.2	0.08
105.90	6,832.8	0.08
106.15	7,158.5	0.08
106.40	7,478.9	0.09
106.65	7,806.3	0.09
106.90	8,140.7	0.09
107.15	8,466.3	0.10
107.40	8,787.6	0.10
107.65	9,114.9	0.11
107.90	9,448.2	0.11
108.00	9,583.2	0.11

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio35
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	103.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	12.50	107.26	24,082.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.35	22.94	0.00	0.00
Infiltration...	12.50	0.00	0.00	0.00
Pond Outflow...	12.50	18.75	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	197,617.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	9,824.000	Forward
Pond Outflow...	0.000	Reverse	186,201.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	197,617.000 ft³
Volume (Total Out ICPM)	196,025.000 ft³
Volume (Ending)	1,588.000 ft³
Elevation (Ending)	103.77 ft
Difference	5.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio36
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.017	0.00	0.00	0.00
98.25	0.00	196.301	0.019	0.00	0.00	2.18
98.50	0.00	415.808	0.021	0.00	0.00	4.62
98.75	0.00	659.817	0.024	0.00	0.00	7.33
99.00	0.38	929.626	0.026	0.00	0.38	10.70
99.25	1.06	1,224.259	0.028	0.00	1.06	14.66
99.50	1.95	1,542.487	0.030	0.00	1.95	19.09
99.75	3.00	1,885.217	0.033	0.00	3.00	23.95
100.00	4.19	2,253.359	0.035	0.00	4.19	29.23
100.25	5.51	2,648.631	0.038	0.00	5.51	34.94
100.50	6.95	3,072.830	0.040	0.00	6.95	41.09
100.75	8.49	3,526.976	0.043	0.00	8.49	47.67
101.00	10.13	4,012.091	0.046	0.00	10.13	54.70
101.25	11.86	4,532.251	0.050	0.00	11.86	62.22
101.50	13.68	5,091.810	0.053	0.00	13.68	70.26
101.75	15.59	5,692.207	0.057	0.00	15.59	78.84
102.00	17.58	6,334.880	0.061	0.00	17.58	87.96

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio36 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.16 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.26 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	99.57 ft
Volume (Peak)	1,641.055 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,936.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	9,276.000 ft³
Volume (Retained)	660.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio36 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.03 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	4.45 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	100.05 ft
Volume (Peak)	2,328.558 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	18,652.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	17,992.000 ft³
Volume (Retained)	660.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio36 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	13.14 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	9.96 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	100.98 ft
Volume (Peak)	3,962.687 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	40,860.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	40,200.000 ft³
Volume (Retained)	660.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio36 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio36'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA36 Perv
<Catchment to Outflow Node>	DA36 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA36 Perv	3,148.840	12.10	1.09
Flow (From)	DA36 Imp	6,787.136	12.10	2.08
Flow (In)	Bio36	9,935.975	12.10	3.16

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio36 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio36'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA36 Perv
<Catchment to Outflow Node>	DA36 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA36 Perv	7,631.592	12.10	2.72
Flow (From)	DA36 Imp	11,020.098	12.10	3.31
Flow (In)	Bio36	18,651.690	12.10	6.03

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio36 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio36'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA36 Perv
<Catchment to Outflow Node>	DA36 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA36 Perv	20,069.470	12.10	6.99
Flow (From)	DA36 Imp	20,790.455	12.10	6.14
Flow (In)	Bio36	40,859.925	12.10	13.14

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio45
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	96.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	13.55	98.64	29,824.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	13.30	0.00	0.00
Pond Outflow...	13.55	2.93	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	90,825.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	82,761.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	90,825.000 ft³
Volume (Total Out ICPM)	82,761.000 ft³
Volume (Ending)	8,062.000 ft³
Elevation (Ending)	97.13 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio45
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	96.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.50	99.35	41,263.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	26.77	0.00	0.00
Pond Outflow...	12.50	13.57	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	187,265.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	179,110.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	187,265.000 ft³
Volume (Total Out ICPM)	179,110.000 ft³
Volume (Ending)	8,153.000 ft³
Elevation (Ending)	97.13 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio45
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	96.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.25	100.43	60,348.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	65.66	0.00	0.00
Pond Outflow...	12.25	48.49	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	420,660.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	412,422.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	420,660.000 ft³
Volume (Total Out ICPM)	412,422.000 ft³
Volume (Ending)	8,236.000 ft³
Elevation (Ending)	97.14 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio51
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
102.00	0.00	0.000	0.060	0.00	0.00	0.00
102.10	0.00	265.424	0.062	0.00	0.00	2.95
102.20	0.00	539.060	0.064	0.00	0.00	5.99
102.30	0.00	821.032	0.066	0.00	0.00	9.12
102.40	0.00	1,111.466	0.068	0.00	0.00	12.35
102.50	0.00	1,410.488	0.070	0.00	0.00	15.67
102.60	0.00	1,718.221	0.072	0.00	0.00	19.09
102.70	0.00	2,034.791	0.074	0.00	0.00	22.61
102.80	0.00	2,360.323	0.076	0.00	0.00	26.23
102.90	0.00	2,694.943	0.078	0.00	0.00	29.94
103.00	0.00	3,038.775	0.080	0.00	0.00	33.76
103.10	0.14	3,390.190	0.081	0.00	0.14	37.81
103.20	0.40	3,747.506	0.083	0.00	0.40	42.04
103.30	0.74	4,110.773	0.084	0.00	0.74	46.41
103.40	1.14	4,480.041	0.085	0.00	1.14	50.92
103.50	1.59	4,855.357	0.087	0.00	1.59	55.54
103.60	2.09	5,236.772	0.088	0.00	2.09	60.28
103.70	2.64	5,624.335	0.090	0.00	2.64	65.13
103.80	3.22	6,018.094	0.091	0.00	3.22	70.09
103.90	3.84	6,418.099	0.093	0.00	3.84	75.15
104.00	4.50	6,824.400	0.094	0.00	4.50	80.33
104.10	5.19	7,237.221	0.096	0.00	5.19	85.61
104.20	5.92	7,656.792	0.097	0.00	5.92	90.99
104.30	6.67	8,083.169	0.099	0.00	6.67	96.48
104.40	7.45	8,516.406	0.100	0.00	7.45	102.08
104.50	8.27	8,956.558	0.102	0.00	8.27	107.78
104.60	9.11	9,403.680	0.103	0.00	9.11	113.59
104.70	9.97	9,857.826	0.105	0.00	9.97	119.51
104.80	10.87	10,319.051	0.107	0.00	10.87	125.52

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: Bio51 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.90	11.79	10,787.410	0.108	0.00	11.79	131.65
105.00	12.73	11,262.957	0.110	0.00	12.73	137.87
105.10	13.69	11,748.284	0.113	0.00	13.69	144.23
105.20	14.68	12,246.049	0.116	0.00	14.68	150.75
105.30	15.70	12,756.410	0.119	0.00	15.70	157.43
105.40	16.73	13,279.525	0.122	0.00	16.73	164.28
105.50	17.79	13,815.549	0.125	0.00	17.79	171.29
105.60	18.87	14,364.642	0.128	0.00	18.87	178.47
105.70	19.96	14,926.961	0.131	0.00	19.96	185.82
105.80	21.08	15,502.662	0.134	0.00	21.08	193.34
105.90	22.22	16,091.903	0.137	0.00	22.22	201.02
106.00	23.38	16,694.842	0.140	0.00	23.38	208.88
106.10	24.56	17,308.973	0.142	0.00	24.56	216.88
106.20	25.76	17,931.725	0.144	0.00	25.76	225.00
106.30	26.98	18,563.160	0.146	0.00	26.98	233.23
106.40	28.21	19,203.337	0.148	0.00	28.21	241.58
106.50	29.47	19,852.316	0.150	0.00	29.47	250.05

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: Bio51 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.62 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.20 ft³/s	Time to Peak (Flow, Outlet)	13.10 hours

Elevation (Water Surface, Peak)	103.12 ft
Volume (Peak)	3,472.889 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,190.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,151.000 ft³
Volume (Retained)	3,039.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio51 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.28 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.56 ft³/s	Time to Peak (Flow, Outlet)	12.30 hours

Elevation (Water Surface, Peak)	103.49 ft
Volume (Peak)	4,827.549 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	12,497.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	9,458.000 ft³
Volume (Retained)	3,039.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio51 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.62 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	5.16 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	104.10 ft
Volume (Peak)	7,218.595 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	29,432.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	26,393.000 ft³
Volume (Retained)	3,039.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio51 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio51'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA51 Imp
<Catchment to Outflow Node>	DA51 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA51 Imp	3,932.046	12.10	1.21
Flow (From)	DA51 Perv	2,258.132	12.15	0.53
Flow (In)	Bio51	6,190.178	12.10	1.62

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio51 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio51'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA51 Imp
<Catchment to Outflow Node>	DA51 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA51 Imp	6,458.148	12.10	1.94
Flow (From)	DA51 Perv	6,038.638	12.15	1.61
Flow (In)	Bio51	12,496.786	12.10	3.28

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio51 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio51'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA51 Imp
<Catchment to Outflow Node>	DA51 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA51 Imp	12,296.009	12.10	3.62
Flow (From)	DA51 Perv	17,135.591	12.15	4.67
Flow (In)	Bio51	29,431.601	12.10	7.62

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio52
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.10	0.00	0.000	0.029	0.00	0.00	0.00
100.35	0.00	331.360	0.032	0.02	0.02	3.70
100.60	0.00	694.809	0.035	0.02	0.02	7.74
100.83	0.00	1,058.797	0.038	0.02	0.02	11.78
100.85	0.01	1,091.829	0.038	0.02	0.03	12.16
101.10	0.42	1,524.037	0.041	0.02	0.44	17.38
101.35	1.12	1,994.195	0.045	0.02	1.15	23.31
101.60	2.03	2,504.218	0.049	0.02	2.05	29.88
101.85	3.09	3,055.727	0.053	0.03	3.12	37.07
102.10	4.29	3,649.884	0.056	0.03	4.32	44.88
102.35	5.62	4,283.924	0.060	0.03	5.65	53.25
102.60	7.06	4,958.063	0.064	0.03	7.10	62.19
102.85	8.61	5,673.532	0.068	0.03	8.65	71.69
103.10	10.26	6,431.400	0.072	0.04	10.30	81.76
103.35	12.00	7,231.389	0.075	0.04	12.04	92.39
103.60	13.83	8,074.265	0.079	0.04	13.87	103.58
103.85	15.74	8,961.150	0.083	0.04	15.79	115.36
104.10	17.74	9,894.413	0.088	0.04	17.78	127.72
104.35	19.81	10,887.042	0.094	0.05	19.86	140.83
104.60	21.96	11,943.806	0.100	0.05	22.01	154.72
104.85	24.18	13,066.714	0.106	0.05	24.23	169.42
105.00	25.55	13,773.042	0.110	0.06	25.60	178.64

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio52 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.42 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.02 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	2.13 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	101.62 ft
Volume (Peak)	2,556.633 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,553.000 ft³
Volume (Total Infiltration)	2,371.000 ft³
Volume (Total Outlet Outflow)	9,140.000 ft³
Volume (Retained)	40.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio52 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.43 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	4.26 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	102.09 ft
Volume (Peak)	3,632.353 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	21,599.000 ft³
Volume (Total Infiltration)	2,533.000 ft³
Volume (Total Outlet Outflow)	19,023.000 ft³
Volume (Retained)	41.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio52 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	14.12 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	9.78 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	103.03 ft
Volume (Peak)	6,205.866 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	47,670.000 ft³
Volume (Total Infiltration)	2,725.000 ft³
Volume (Total Outlet Outflow)	44,901.000 ft³
Volume (Retained)	43.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio52 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio52'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA52 Perv
<Catchment to Outflow Node>	DA52 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA52 Perv	2,268.505	12.15	0.59
Flow (From)	DA52 Imp	9,284.831	12.10	2.90
Flow (In)	Bio52	11,553.336	12.10	3.42

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio52 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio52'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA52 Perv
<Catchment to Outflow Node>	DA52 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA52 Perv	6,350.223	12.15	1.86
Flow (From)	DA52 Imp	15,248.760	12.10	4.65
Flow (In)	Bio52	21,598.982	12.10	6.43

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio52 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio52'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA52 Perv
<Catchment to Outflow Node>	DA52 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA52 Perv	18,638.431	12.15	5.49
Flow (From)	DA52 Imp	29,031.833	12.10	8.66
Flow (In)	Bio52	47,670.264	12.10	14.12

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio53
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.50	0.00	0.000	0.014	0.00	0.00	0.00
104.75	0.00	181.786	0.020	0.00	0.00	2.02
105.00	0.00	428.912	0.026	0.00	0.00	4.77
105.25	0.00	729.406	0.029	0.00	0.00	8.10
105.45	0.00	995.673	0.032	0.00	0.00	11.06
105.50	0.03	1,065.970	0.033	0.00	0.03	11.88
105.75	0.49	1,440.649	0.036	0.00	0.49	16.50
106.00	1.22	1,855.488	0.040	0.00	1.22	21.84
106.25	2.15	2,316.021	0.045	0.00	2.15	27.88
106.50	3.23	2,828.254	0.049	0.00	3.23	34.65
106.75	4.45	3,394.937	0.055	0.00	4.45	42.17
107.00	5.79	4,018.820	0.060	0.00	5.79	50.44
107.25	7.24	4,691.690	0.064	0.00	7.24	59.37
107.50	8.81	5,404.260	0.067	0.00	8.81	68.85
107.75	10.46	6,157.668	0.071	0.00	10.46	78.88
108.00	12.22	6,953.051	0.075	0.00	12.22	89.47
108.25	14.06	7,786.908	0.078	0.00	14.06	100.58
108.50	15.98	8,655.451	0.081	0.00	15.98	112.15
108.75	17.98	9,559.387	0.085	0.00	17.98	124.20
109.00	20.07	10,499.421	0.088	0.00	20.07	136.73

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio53 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.51 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.91 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	105.89 ft
Volume (Peak)	1,672.475 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	5,021.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	4,026.000 ft³
Volume (Retained)	996.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio53 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.87 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.89 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	106.18 ft
Volume (Peak)	2,183.825 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	9,506.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	8,511.000 ft³
Volume (Retained)	996.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Bio53 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.33 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	4.38 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	106.74 ft
Volume (Peak)	3,362.983 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	21,170.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	20,175.000 ft³
Volume (Retained)	996.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio53 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio53'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA53 Perv
<Catchment to Outflow Node>	DA53 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA53 Perv	1,023.621	12.15	0.27
Flow (From)	DA53 Imp	3,997.620	12.10	1.27
Flow (In)	Bio53	5,021.241	12.10	1.51

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio53 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio53'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA53 Perv
<Catchment to Outflow Node>	DA53 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA53 Perv	2,865.376	12.15	0.84
Flow (From)	DA53 Imp	6,640.893	12.10	2.05
Flow (In)	Bio53	9,506.269	12.10	2.87

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Bio53 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Bio53'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA53 Perv
<Catchment to Outflow Node>	DA53 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA53 Perv	8,410.091	12.10	2.49
Flow (From)	DA53 Imp	12,760.257	12.10	3.84
Flow (In)	Bio53	21,170.348	12.10	6.33

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio58
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	106.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.60	108.08	13,023.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	7.59	0.00	0.00
Pond Outflow...	12.60	1.35	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	26,462.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	21,046.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	26,462.000 ft³
Volume (Total Out ICPM)	21,046.000 ft³
Volume (Ending)	5,415.000 ft³
Elevation (Ending)	107.15 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio58
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	106.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.40	108.90	20,803.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	13.65	0.00	0.00
Pond Outflow...	12.40	3.71	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	48,890.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	43,469.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	48,890.000 ft³
Volume (Total Out ICPM)	43,469.000 ft³
Volume (Ending)	5,420.000 ft³
Elevation (Ending)	107.15 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Bio58
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	106.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.25	109.98	32,641.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	28.34	0.00	0.00
Pond Outflow...	12.25	13.25	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	104,885.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	99,459.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	104,885.000 ft³
Volume (Total Out ICPM)	99,459.000 ft³
Volume (Ending)	5,427.000 ft³
Elevation (Ending)	107.15 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: EX. BASIN 6 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
89.00	0.00	0.000	1.300	0.00	0.00	0.00
89.25	0.00	14,319.122	1.330	0.00	0.00	159.10
89.50	0.00	28,964.943	1.360	0.00	0.00	321.83
89.75	0.00	43,937.518	1.390	0.00	0.00	488.19
90.00	0.00	59,236.793	1.420	0.00	0.00	658.19
90.25	0.08	74,889.639	1.455	0.00	0.08	832.19
90.50	0.14	90,923.636	1.490	0.00	0.14	1,010.41
90.75	0.19	107,312.011	1.520	0.00	0.19	1,192.54
91.00	0.22	124,027.087	1.550	0.00	0.22	1,378.30
91.25	0.25	141,100.242	1.586	0.00	0.25	1,568.03
91.35	0.26	148,038.528	1.600	0.00	0.26	1,645.13
91.50	0.74	158,558.201	1.620	0.00	0.74	1,762.50
91.75	2.33	176,362.360	1.650	0.00	2.33	1,961.91
92.00	4.52	194,493.220	1.680	0.00	4.52	2,165.55
92.25	7.17	212,977.699	1.715	0.00	7.17	2,373.59
92.50	10.23	231,843.327	1.750	0.00	10.23	2,586.27
92.75	13.63	251,090.157	1.785	0.00	13.63	2,803.53
93.00	17.36	270,718.136	1.820	0.00	17.36	3,025.34
93.25	21.37	290,727.312	1.855	0.00	21.37	3,251.67
93.50	25.65	311,117.638	1.890	0.00	25.65	3,482.52
93.75	30.19	331,916.034	1.930	0.00	30.19	3,718.15
94.00	34.98	353,150.029	1.970	0.00	34.98	3,958.87
94.25	39.99	374,792.795	2.005	0.00	39.99	4,204.35
94.50	45.22	396,816.711	2.040	0.00	45.22	4,454.29
94.75	50.66	419,221.814	2.075	0.00	50.66	4,708.68
95.00	56.31	442,008.068	2.110	0.00	56.31	4,967.51

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: EX. BASIN 6 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	38.18 ft³/s	Time to Peak (Flow, In)	12.20 hours
Flow (Peak Outlet)	1.04 ft³/s	Time to Peak (Flow, Outlet)	20.75 hours

Elevation (Water Surface, Peak)	91.55 ft
Volume (Peak)	161,930.863 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	197,379.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	61,385.000 ft³
Volume (Retained)	135,910.000 ft³
Volume (Unrouted)	-84.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: EX. BASIN 6 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	66.25 ft³/s	Time to Peak (Flow, In)	12.20 hours
Flow (Peak Outlet)	7.36 ft³/s	Time to Peak (Flow, Outlet)	13.65 hours

Elevation (Water Surface, Peak)	92.27 ft
Volume (Peak)	214,107.994 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	359,615.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	219,529.000 ft³
Volume (Retained)	140,030.000 ft³
Volume (Unrouted)	-56.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: EX. BASIN 6 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	141.92 ft³/s	Time to Peak (Flow, In)	12.20 hours
Flow (Peak Outlet)	38.16 ft³/s	Time to Peak (Flow, Outlet)	12.75 hours

Elevation (Water Surface, Peak)	94.16 ft
Volume (Peak)	366,836.701 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	759,770.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	618,467.000 ft³
Volume (Retained)	141,257.000 ft³
Volume (Unrouted)	-46.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: EX. BASIN 6 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'EX. BASIN 6'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-6 Imp (Plainsboro)
Out25	Bio25
<Catchment to Outflow Node>	Future Imp Road-Basin 6 (S Brunswick)
<Catchment to Outflow Node>	PDA-6 PER (Plainsboro)
Out17	UGB17
<Catchment to Outflow Node>	Ex DA-6 Perv (S Brunswick)

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	PDA-6 Imp (Plainsboro)	169,773.789	12.20	35.11
Flow (From)	Out25	6,917.475	24.00	0.10
Flow (From)	Future Imp Road-Basin 6 (S Brunswick)	3,991.888	12.10	1.22
Flow (From)	PDA-6 PER (Plainsboro)	4,882.346	12.20	1.05
Flow (From)	Out17	3,621.538	14.75	0.13
Flow (From)	Ex DA-6 Perv (S Brunswick)	8,192.351	12.20	1.59
Flow (In)	EX. BASIN 6	197,379.387	12.20	38.18

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: EX. BASIN 6 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'EX. BASIN 6'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-6 Imp (Plainsboro)
Out25	Bio25
<Catchment to Outflow Node>	Future Imp Road-Basin 6 (S Brunswick)
<Catchment to Outflow Node>	PDA-6 PER (Plainsboro)
Out17	UGB17
<Catchment to Outflow Node>	Ex DA-6 Perv (S Brunswick)

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	PDA-6 Imp (Plainsboro)	275,672.122	12.20	56.03
Flow (From)	Out25	29,155.254	14.20	0.81
Flow (From)	Future Imp Road-Basin 6 (S Brunswick)	6,481.615	12.10	1.95
Flow (From)	PDA-6 PER (Plainsboro)	12,278.019	12.20	2.90
Flow (From)	Out17	11,240.429	12.60	0.74
Flow (From)	Ex DA-6 Perv (S Brunswick)	24,787.316	12.15	6.24
Flow (In)	EX. BASIN 6	359,614.754	12.20	66.25

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: EX. BASIN 6 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'EX. BASIN 6'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-6 Imp (Plainsboro)
Out25	Bio25
<Catchment to Outflow Node>	Future Imp Road-Basin 6 (S Brunswick)
<Catchment to Outflow Node>	PDA-6 PER (Plainsboro)
Out17	UGB17
<Catchment to Outflow Node>	Ex DA-6 Perv (S Brunswick)

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-6 Imp (Plainsboro)	520,096.237	12.20	104.11
Flow (From)	Out25	88,050.143	12.45	7.71
Flow (From)	Future Imp Road-Basin 6 (S Brunswick)	12,228.272	12.10	3.61
Flow (From)	PDA-6 PER (Plainsboro)	33,241.459	12.20	7.91
Flow (From)	Out17	29,294.368	12.25	3.43
Flow (From)	Ex DA-6 Perv (S Brunswick)	76,859.145	12.15	20.62
Flow (In)	EX. BASIN 6	759,769.624	12.20	141.92

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: INFIL29
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
93.00	0.00	0.000	0.008	0.00	0.00	0.00
93.10	0.00	36.912	0.009	0.00	0.00	0.41
93.20	0.00	78.110	0.010	0.00	0.00	0.87
93.30	0.00	123.830	0.011	0.00	0.00	1.38
93.40	0.00	174.305	0.012	0.00	0.00	1.94
93.50	0.00	229.773	0.013	0.00	0.00	2.55
93.60	0.00	290.467	0.015	0.00	0.00	3.23
93.70	0.00	356.624	0.016	0.00	0.00	3.96
93.80	0.00	428.479	0.017	0.00	0.00	4.76
93.90	0.00	506.268	0.019	0.00	0.00	5.63
94.00	0.00	590.225	0.020	0.00	0.00	6.56
94.10	0.00	679.673	0.021	0.00	0.00	7.55
94.20	0.00	773.860	0.022	0.00	0.00	8.60
94.30	0.00	872.906	0.023	0.00	0.00	9.70
94.40	0.14	976.936	0.024	0.00	0.14	11.00
94.50	0.40	1,086.070	0.026	0.00	0.40	12.47
94.60	0.74	1,200.432	0.027	0.00	0.74	14.08
94.70	1.14	1,320.143	0.028	0.00	1.14	15.81
94.80	1.59	1,445.325	0.029	0.00	1.59	17.65
94.90	2.09	1,576.102	0.031	0.00	2.09	19.60
95.00	2.64	1,712.595	0.032	0.00	2.64	21.66
95.10	3.22	1,854.779	0.033	0.00	3.22	23.83
95.20	3.84	2,002.620	0.035	0.00	3.84	26.09
95.30	4.50	2,156.228	0.036	0.00	4.50	28.46
95.40	5.19	2,315.713	0.037	0.00	5.19	30.92
95.50	5.92	2,481.187	0.039	0.00	5.92	33.48
95.60	6.67	2,652.759	0.040	0.00	6.67	36.15
95.70	7.45	2,830.540	0.042	0.00	7.45	38.90
95.80	8.27	3,014.640	0.043	0.00	8.27	41.76

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: INFIL29 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
95.90	9.11	3,205.170	0.044	0.00	9.11	44.72
96.00	10.48	3,402.239	0.046	0.00	10.48	48.28
96.10	12.28	3,605.979	0.048	0.00	12.28	52.35
96.20	14.39	3,816.521	0.049	0.00	14.39	56.79
96.30	16.74	4,033.976	0.051	0.00	16.74	61.56
96.40	18.63	4,258.457	0.052	0.00	18.63	65.95
96.50	20.09	4,490.076	0.054	0.00	20.09	69.98

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: INFIL29 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.44 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.56 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	95.15 ft
Volume (Peak)	1,934.238 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	14,276.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	13,403.000 ft³
Volume (Retained)	873.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: INFIL29 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.78 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	6.31 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	95.55 ft
Volume (Peak)	2,570.542 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	25,322.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	24,450.000 ft³
Volume (Retained)	873.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: INFIL29 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	15.93 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	14.77 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	96.22 ft
Volume (Peak)	3,851.102 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	52,662.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	51,789.000 ft³
Volume (Retained)	873.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: INFIL29 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'INFIL29'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA29 Perv
<Catchment to Outflow Node>	DA29 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA29 Perv	1,410.970	12.15	0.37
Flow (From)	DA29 Imp	12,864.862	12.10	4.09
Flow (In)	INFIL29	14,275.832	12.10	4.44

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: INFIL29 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'INFIL29'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA29 Perv
<Catchment to Outflow Node>	DA29 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA29 Perv	3,949.952	12.10	1.18
Flow (From)	DA29 Imp	21,372.529	12.10	6.60
Flow (In)	INFIL29	25,322.481	12.10	7.78

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: INFIL29 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'INFIL29'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA29 Perv
<Catchment to Outflow Node>	DA29 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA29 Perv	11,593.817	12.10	3.60
Flow (From)	DA29 Imp	41,068.099	12.10	12.34
Flow (In)	INFIL29	52,661.915	12.10	15.93

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Infil30
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	91.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	14.10	93.48	64,458.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	18.60	0.00	0.00
Pond Outflow...	14.10	5.57	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	188,476.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	157,981.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	188,476.000 ft³
Volume (Total Out ICPM)	157,981.000 ft³
Volume (Ending)	30,480.000 ft³
Elevation (Ending)	92.45 ft
Difference	14.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Infil30
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	91.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.75	94.36	95,518.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.20	42.80	0.00	0.00
Pond Outflow...	12.75	25.42	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	382,042.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	350,591.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	382,042.000 ft³
Volume (Total Out ICPM)	350,591.000 ft³
Volume (Ending)	31,436.000 ft³
Elevation (Ending)	92.48 ft
Difference	14.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: Infil30
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	91.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.40	95.96	155,898.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.15	129.18	0.00	0.00
Pond Outflow...	12.40	90.89	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	855,791.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	823,581.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	855,791.000 ft³
Volume (Total Out ICPM)	823,581.000 ft³
Volume (Ending)	32,196.000 ft³
Elevation (Ending)	92.50 ft
Difference	14.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Infil8
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
109.50	0.00	0.000	0.100	0.00	0.00	0.00
109.60	0.00	439.866	0.102	0.03	0.03	4.92
109.70	0.00	888.320	0.104	0.03	0.03	9.90
109.76	0.00	1,161.548	0.105	0.03	0.03	12.94
109.80	0.00	1,345.444	0.106	0.03	0.04	14.99
109.90	0.06	1,811.321	0.108	0.03	0.09	20.22
110.00	0.17	2,286.035	0.110	0.03	0.20	25.60
110.10	0.33	2,769.382	0.112	0.03	0.36	31.14
110.20	0.54	3,261.149	0.114	0.03	0.57	36.81
110.30	0.78	3,761.410	0.116	0.04	0.81	42.61
110.40	1.05	4,270.238	0.118	0.04	1.09	48.54
110.50	1.34	4,787.705	0.120	0.04	1.38	54.58
110.60	1.71	5,313.884	0.122	0.04	1.74	60.79
110.70	1.90	5,848.848	0.124	0.04	1.94	66.92
110.75	1.99	6,119.647	0.125	0.04	2.03	70.02
110.80	2.12	6,392.669	0.126	0.04	2.16	73.19
110.90	2.49	6,945.420	0.128	0.04	2.53	79.70
111.00	2.94	7,507.175	0.130	0.04	2.98	86.40
111.10	3.45	8,079.672	0.133	0.04	3.49	93.27
111.20	4.01	8,664.696	0.136	0.04	4.06	100.33
111.30	4.62	9,262.381	0.139	0.04	4.66	107.58
111.40	5.26	9,872.863	0.142	0.04	5.30	115.00
111.48	5.80	10,370.553	0.144	0.04	5.85	121.08
111.50	6.00	10,496.277	0.145	0.04	6.05	122.67
111.60	7.53	11,132.759	0.148	0.04	7.57	131.27
111.70	9.56	11,782.445	0.151	0.05	9.61	140.52
111.80	11.97	12,445.470	0.154	0.05	12.01	150.30
111.90	14.68	13,121.969	0.157	0.05	14.73	160.53

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Infil8
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
112.00	17.66	13,812.079	0.160	0.05	17.71	171.18

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Infil8 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.80 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.50 hours
Flow (Peak Outlet)	0.26 ft³/s	Time to Peak (Flow, Outlet)	12.50 hours

Elevation (Water Surface, Peak)	110.06 ft
Volume (Peak)	2,557.347 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	5,783.000 ft³
Volume (Total Infiltration)	3,216.000 ft³
Volume (Total Outlet Outflow)	2,560.000 ft³
Volume (Retained)	6.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Infil8 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.22 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.25 hours
Flow (Peak Outlet)	0.89 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	110.34 ft
Volume (Peak)	3,973.419 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,236.000 ft³
Volume (Total Infiltration)	3,635.000 ft³
Volume (Total Outlet Outflow)	6,593.000 ft³
Volume (Retained)	9.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: Infil8 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
109.50	4,356.0	0.00
109.60	4,441.5	0.03
109.70	4,527.7	0.03
109.76	4,579.9	0.03
109.80	4,614.9	0.03
109.90	4,702.8	0.03
110.00	4,791.6	0.03
110.10	4,875.4	0.03
110.20	4,960.0	0.03
110.30	5,045.3	0.04
110.40	5,131.4	0.04
110.50	5,218.1	0.04
110.60	5,305.6	0.04
110.70	5,393.8	0.04
110.75	5,438.2	0.04
110.80	5,482.7	0.04
110.90	5,572.4	0.04
111.00	5,662.8	0.04
111.10	5,787.4	0.04
111.20	5,913.3	0.04
111.30	6,040.6	0.04
111.40	6,169.3	0.04
111.48	6,273.1	0.04
111.50	6,299.3	0.04
111.60	6,430.6	0.04
111.70	6,563.3	0.05
111.80	6,697.4	0.05
111.90	6,832.8	0.05
112.00	6,969.6	0.05

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: Infil8 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.76 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	2.39 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	110.87 ft
Volume (Peak)	6,795.411 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	21,420.000 ft³
Volume (Total Infiltration)	4,093.000 ft³
Volume (Total Outlet Outflow)	17,314.000 ft³
Volume (Retained)	13.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Infil8 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'Infil8'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA8 Perv
<Catchment to Outflow Node>	PDA8 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA8 Perv	725.822	12.10	0.25
Flow (From)	PDA8 Imp	5,057.187	12.10	1.55
Flow (In)	Infil8	5,783.009	12.10	1.80

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Infil8 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'Infil8'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA8 Perv
<Catchment to Outflow Node>	PDA8 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA8 Perv	2,025.058	12.10	0.76
Flow (From)	PDA8 Imp	8,211.175	12.10	2.46
Flow (In)	Infil8	10,236.233	12.10	3.22

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: Infil8 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'Infil8'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA8 Perv
<Catchment to Outflow Node>	PDA8 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA8 Perv	5,928.606	12.10	2.18
Flow (From)	PDA8 Imp	15,491.114	12.10	4.58
Flow (In)	Infil8	21,419.720	12.10	6.76

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB10
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
106.00	0.00	0.000	0.000	0.00	0.00	0.00
106.25	0.00	308.473	0.000	0.00	0.00	3.43
106.50	0.00	623.315	0.000	0.00	0.00	6.93
106.75	0.00	1,276.719	0.000	0.00	0.00	14.19
107.00	0.00	1,927.904	0.000	0.00	0.00	21.42
107.25	0.56	2,571.755	0.000	0.00	0.56	29.14
107.50	1.59	3,206.879	0.000	0.00	1.59	37.22
107.75	2.92	3,827.883	0.000	0.00	2.92	45.45
108.00	4.50	4,432.649	0.000	0.00	4.50	53.75
108.25	6.29	5,012.490	0.000	0.00	6.29	61.98
108.50	8.27	5,561.117	0.000	0.00	8.27	70.06
108.75	10.42	6,052.483	0.000	0.00	10.42	77.67
109.00	12.73	6,466.727	0.000	0.00	12.73	84.58
109.25	15.19	6,858.120	0.000	0.00	15.19	91.39
109.50	17.79	7,256.458	0.000	0.00	17.79	98.42

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB10 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.43 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.23 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	107.62 ft
Volume (Peak)	3,505.380 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,176.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	9,248.000 ft³
Volume (Retained)	1,928.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB10 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.80 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	4.03 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	107.93 ft
Volume (Peak)	4,253.764 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	18,927.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	16,999.000 ft³
Volume (Retained)	1,928.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB10 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	11.48 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	9.02 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	108.59 ft
Volume (Peak)	5,741.881 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	37,658.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	35,730.000 ft³
Volume (Retained)	1,928.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB10 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB10'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA10 Imp
<Catchment to Outflow Node>	DA10 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA10 Imp	10,512.509	12.10	3.22
Flow (From)	DA10 Perv	663.455	12.10	0.21
Flow (In)	UGB10	11,175.964	12.10	3.43

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB10 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB10'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA10 Imp
<Catchment to Outflow Node>	DA10 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA10 Imp	17,069.454	12.10	5.13
Flow (From)	DA10 Perv	1,857.870	12.10	0.67
Flow (In)	UGB10	18,927.325	12.10	5.80

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB10 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB10'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA10 Imp
<Catchment to Outflow Node>	DA10 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA10 Imp	32,203.708	12.10	9.52
Flow (From)	DA10 Perv	5,454.399	12.10	1.96
Flow (In)	UGB10	37,658.107	12.10	11.48

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB11 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
84.08	0.00	0.000	0.030	0.00	0.00	0.00
84.33	0.00	131.027	0.031	0.03	0.03	1.49
84.58	0.00	266.376	0.032	0.03	0.03	2.99
84.83	0.00	524.762	0.033	0.03	0.03	5.86
85.01	0.00	707.306	0.033	0.03	0.03	7.89
85.08	0.17	777.248	0.034	0.03	0.20	8.84
85.25	1.06	942.372	0.034	0.03	1.09	11.56
85.33	1.90	1,017.967	0.035	0.04	1.94	13.25
85.58	6.15	1,241.878	0.036	0.04	6.18	19.98
85.83	11.10	1,427.142	0.037	0.04	11.13	26.99
86.08	12.05	1,593.003	0.038	0.04	12.09	29.79
86.33	20.95	1,761.461	0.039	0.04	20.99	40.56
86.41	24.00	1,818.570	0.040	0.04	24.04	44.24

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB11 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.56 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	4.35 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	85.47 ft
Volume (Peak)	1,149.662 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	37,786.000 ft³
Volume (Total Infiltration)	3,949.000 ft³
Volume (Total Outlet Outflow)	33,836.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB11 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.26 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	9.02 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	85.73 ft
Volume (Peak)	1,353.875 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	71,363.000 ft³
Volume (Total Infiltration)	4,327.000 ft³
Volume (Total Outlet Outflow)	67,034.000 ft³
Volume (Retained)	2.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB11 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	22.65 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	22.00 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	86.36 ft
Volume (Peak)	1,780.964 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	155,475.000 ft³
Volume (Total Infiltration)	4,688.000 ft³
Volume (Total Outlet Outflow)	150,786.000 ft³
Volume (Retained)	2.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB11 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB11'

Upstream Link	Upstream Node
Out15	UGB15
<Catchment to Outflow Node>	DA11 Perv
<Catchment to Outflow Node>	DA11 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out15	29,669.744	12.30	2.61
Flow (From)	DA11 Perv	497.477	12.10	0.16
Flow (From)	DA11 Imp	7,618.525	12.10	2.40
Flow (In)	UGB11	37,785.746	12.10	4.56

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB11 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB11'

Upstream Link	Upstream Node
Out15	UGB15
<Catchment to Outflow Node>	DA11 Perv
<Catchment to Outflow Node>	DA11 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out15	57,313.032	12.25	6.07
Flow (From)	DA11 Perv	1,393.139	12.10	0.50
Flow (From)	DA11 Imp	12,657.119	12.10	3.88
Flow (In)	UGB11	71,363.290	12.10	9.26

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB11 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB11'

Upstream Link	Upstream Node
Out15	UGB15
<Catchment to Outflow Node>	DA11 Perv
<Catchment to Outflow Node>	DA11 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out15	127,063.633	12.20	17.57
Flow (From)	DA11 Perv	4,090.184	12.10	1.46
Flow (From)	DA11 Imp	24,321.572	12.10	7.25
Flow (In)	UGB11	155,475.389	12.10	22.65

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB13
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	87.73	822.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	2.34	0.00	0.00
Pond Outflow...	12.10	1.85	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	8,140.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	7,727.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	8,140.000 ft³
Volume (Total Out ICPM)	7,727.000 ft³
Volume (Ending)	413.000 ft³
Elevation (Ending)	87.00 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB13
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	88.05	1,002.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	3.67	0.00	0.00
Pond Outflow...	12.10	3.01	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	14,213.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	13,800.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	14,213.000 ft³
Volume (Total Out ICPM)	13,800.000 ft³
Volume (Ending)	413.000 ft³
Elevation (Ending)	87.00 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB13
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.10	88.85	1,419.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	8.43	0.00	0.00
Pond Outflow...	12.10	7.02	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	28,666.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	28,253.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	28,666.000 ft³
Volume (Total Out ICPM)	28,253.000 ft³
Volume (Ending)	413.000 ft³
Elevation (Ending)	87.00 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB14
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	87.98	822.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	1.37	0.00	0.00
Pond Outflow...	12.10	0.97	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	4,316.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	3,914.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	4,316.000 ft³
Volume (Total Out ICPM)	3,914.000 ft³
Volume (Ending)	401.000 ft³
Elevation (Ending)	87.23 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB14
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	88.49	1,108.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	2.30	0.00	0.00
Pond Outflow...	12.15	1.49	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	7,390.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	6,989.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	7,390.000 ft³
Volume (Total Out ICPM)	6,989.000 ft³
Volume (Ending)	401.000 ft³
Elevation (Ending)	87.23 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB14
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	88.94	1,342.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	4.51	0.00	0.00
Pond Outflow...	12.10	4.02	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	14,750.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	14,348.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	14,750.000 ft³
Volume (Total Out ICPM)	14,348.000 ft³
Volume (Ending)	401.000 ft³
Elevation (Ending)	87.23 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB15
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	92.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.30	93.26	5,859.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	5.23	0.00	0.00
Pond Outflow...	12.30	2.61	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	31,847.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	29,670.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	31,847.000 ft³
Volume (Total Out ICPM)	29,670.000 ft³
Volume (Ending)	2,177.000 ft³
Elevation (Ending)	92.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB15
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	92.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.25	93.73	8,519.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	10.37	0.00	0.00
Pond Outflow...	12.25	6.07	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	59,491.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	57,313.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	59,491.000 ft³
Volume (Total Out ICPM)	57,313.000 ft³
Volume (Ending)	2,178.000 ft³
Elevation (Ending)	92.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB15
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	92.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.20	94.87	13,904.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	25.00	0.00	0.00
Pond Outflow...	12.20	17.57	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	129,242.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	127,064.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	129,242.000 ft³
Volume (Total Out ICPM)	127,064.000 ft³
Volume (Ending)	2,178.000 ft³
Elevation (Ending)	92.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB16
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.35	95.43	9,663.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	6.57	0.00	0.00
Pond Outflow...	12.35	1.60	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	21,490.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	18,402.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	21,490.000 ft³
Volume (Total Out ICPM)	18,402.000 ft³
Volume (Ending)	3,088.000 ft³
Elevation (Ending)	94.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB16
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.25	96.01	14,163.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	11.61	0.00	0.00
Pond Outflow...	12.25	3.64	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	38,080.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	34,992.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	38,080.000 ft³
Volume (Total Out ICPM)	34,992.000 ft³
Volume (Ending)	3,088.000 ft³
Elevation (Ending)	94.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB16
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	12.20	97.49	22,445.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.10	24.05	0.00	0.00
Pond Outflow...	12.20	10.82	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	79,450.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	76,361.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	79,450.000 ft³
Volume (Total Out ICPM)	76,361.000 ft³
Volume (Ending)	3,089.000 ft³
Elevation (Ending)	94.63 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB17
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
110.50	0.00	0.000	0.000	0.00	0.00	0.00
110.75	0.00	1,168.548	0.000	0.00	0.00	12.98
111.00	0.00	2,350.871	0.000	0.00	0.00	26.12
111.25	0.00	4,850.926	0.000	0.00	0.00	53.90
111.50	0.00	7,330.736	0.000	0.00	0.00	81.45
111.75	0.38	9,769.092	0.000	0.00	0.38	108.92
112.00	1.06	12,161.358	0.000	0.00	1.06	136.19
112.25	1.95	14,485.207	0.000	0.00	1.95	162.90
112.50	3.00	16,733.176	0.000	0.00	3.00	188.92
112.75	4.19	18,869.975	0.000	0.00	4.19	213.86
113.00	5.51	20,871.780	0.000	0.00	5.51	237.42
113.25	6.95	22,635.077	0.000	0.00	6.95	258.45
113.50	8.49	24,082.744	0.000	0.00	8.49	276.07
113.75	10.13	25,426.780	0.000	0.00	10.13	292.64
114.00	11.86	26,785.167	0.000	0.00	11.86	309.47

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB17 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.48 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.13 ft³/s	Time to Peak (Flow, Outlet)	14.75 hours

Elevation (Water Surface, Peak)	111.58 ft
Volume (Peak)	8,152.605 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,952.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,622.000 ft³
Volume (Retained)	7,331.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB17 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.77 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.74 ft³/s	Time to Peak (Flow, Outlet)	12.60 hours

Elevation (Water Surface, Peak)	111.88 ft
Volume (Peak)	11,038.256 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	18,571.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	11,240.000 ft³
Volume (Retained)	7,331.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB17 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	11.13 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.43 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	112.59 ft
Volume (Peak)	17,516.860 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	36,625.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	29,294.000 ft³
Volume (Retained)	7,331.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB17 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB17'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA17 Imp
<Catchment to Outflow Node>	DA17 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA17 Imp	10,620.369	12.10	3.39
Flow (From)	DA17 Perv	331.906	12.10	0.10
Flow (In)	UGB17	10,952.275	12.10	3.48

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB17 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB17'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA17 Imp
<Catchment to Outflow Node>	DA17 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA17 Imp	17,641.957	12.10	5.46
Flow (From)	DA17 Perv	929.209	12.10	0.31
Flow (In)	UGB17	18,571.166	12.10	5.77

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB17 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB17'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA17 Imp
<Catchment to Outflow Node>	DA17 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA17 Imp	33,897.575	12.10	10.20
Flow (From)	DA17 Perv	2,727.529	12.10	0.93
Flow (In)	UGB17	36,625.103	12.10	11.13

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB18
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.20	96.58	2,223.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.15	5.55	0.00	0.00
Pond Outflow...	12.20	5.14	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	34,166.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	33,199.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	34,166.000 ft³
Volume (Total Out ICPM)	33,199.000 ft³
Volume (Ending)	967.000 ft³
Elevation (Ending)	95.24 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB18
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.20	97.12	2,628.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.15	14.42	0.00	0.00
Pond Outflow...	12.20	13.62	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	64,239.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	63,272.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	64,239.000 ft³
Volume (Total Out ICPM)	63,272.000 ft³
Volume (Ending)	967.000 ft³
Elevation (Ending)	95.24 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB18
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	97.72	3,070.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.15	35.05	0.00	0.00
Pond Outflow...	12.15	27.89	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	138,960.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	136,248.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	138,960.000 ft³
Volume (Total Out ICPM)	136,248.000 ft³
Volume (Ending)	967.000 ft³
Elevation (Ending)	95.24 ft
Difference	1,744.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	1.3 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB19
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.30	96.64	1,772.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.20	3.97	0.00	0.00
Infiltration...	12.30	0.00	0.00	0.00
Pond Outflow...	12.30	3.66	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	26,193.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	3,100.000	Forward
Pond Outflow...	0.000	Reverse	23,083.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	26,193.000 ft³
Volume (Total Out ICPM)	26,184.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.50 ft
Difference	9.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB19
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	12.25	97.20	2,254.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.15	11.07	0.00	0.00
Infiltration...	12.25	0.00	0.00	0.00
Pond Outflow...	12.20	9.57	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	48,291.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	3,425.000	Forward
Pond Outflow...	0.000	Reverse	44,852.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	48,291.000 ft³
Volume (Total Out ICPM)	48,277.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.50 ft
Difference	13.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: UGB19 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
94.50	1,139.2	0.00
94.60	1,156.9	0.03
94.70	1,174.6	0.03
94.80	1,192.4	0.03
94.90	1,210.3	0.03
95.00	1,228.3	0.03
95.06	1,239.1	0.03
95.10	1,246.3	0.03
95.20	1,264.5	0.03
95.30	1,282.7	0.03
95.40	1,301.0	0.03
95.50	1,319.4	0.03
95.60	1,337.8	0.03
95.70	1,356.3	0.03
95.80	1,375.0	0.03
95.90	1,393.7	0.03
96.00	1,412.4	0.03
96.10	1,431.3	0.03
96.20	1,450.2	0.03
96.30	1,469.2	0.03
96.40	1,488.3	0.03
96.50	1,507.5	0.03
96.60	1,526.8	0.04
96.70	1,546.1	0.04
96.80	1,565.5	0.04
96.90	1,585.0	0.04
97.00	1,604.6	0.04
97.10	1,624.3	0.04
97.20	1,644.0	0.04
97.30	1,663.8	0.04
97.40	1,683.7	0.04
97.50	1,703.7	0.04
97.60	1,723.7	0.04
97.70	1,743.9	0.04
97.72	1,747.9	0.04
97.80	1,764.1	0.04
97.90	1,784.4	0.04
98.00	1,804.8	0.04
98.10	1,825.2	0.04
98.20	1,845.7	0.04
98.22	1,849.9	0.04

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB19
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.20	97.97	2,807.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.15	26.07	0.00	0.00
Infiltration...	12.20	0.00	0.00	0.00
Pond Outflow...	12.15	24.77	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	102,880.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	3,766.000	Forward
Pond Outflow...	0.000	Reverse	99,093.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	102,880.000 ft³
Volume (Total Out ICPM)	102,859.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.50 ft
Difference	21.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB2
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	85.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	87.10	4,240.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	5.98	0.00	0.00
Pond Outflow...	12.15	4.50	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	21,271.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	19,065.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	21,271.000 ft³
Volume (Total Out ICPM)	19,065.000 ft³
Volume (Ending)	2,206.000 ft³
Elevation (Ending)	86.25 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB2
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	85.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	87.37	4,740.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	10.78	0.00	0.00
Pond Outflow...	12.15	8.89	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	39,006.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	36,800.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	39,006.000 ft³
Volume (Total Out ICPM)	36,800.000 ft³
Volume (Ending)	2,206.000 ft³
Elevation (Ending)	86.25 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB2
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	85.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.05	87.58	5,152.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	24.03	0.00	0.00
Pond Outflow...	12.05	13.43	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	83,523.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	77,919.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	83,523.000 ft³
Volume (Total Out ICPM)	77,919.000 ft³
Volume (Ending)	2,206.000 ft³
Elevation (Ending)	86.25 ft
Difference	3,398.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	4.1 %

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB20
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	97.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
97.10	0.00	0.000	0.000	0.00	0.00	0.00
97.20	0.00	217.838	0.000	0.00	0.00	2.42
97.30	0.00	437.599	0.000	0.00	0.00	4.86
97.40	0.00	659.286	0.000	0.00	0.00	7.33
97.50	0.00	882.902	0.000	0.00	0.00	9.81
97.60	0.00	1,108.451	0.000	0.00	0.00	12.32
97.70	0.00	1,569.421	0.000	0.00	0.00	17.44
97.72	0.00	1,661.726	0.000	0.00	0.00	18.46
97.80	0.02	2,030.947	0.000	0.00	0.02	22.59
97.90	0.10	2,491.779	0.000	0.00	0.10	27.78
98.00	0.23	2,951.919	0.000	0.00	0.23	33.03
98.10	0.41	3,410.741	0.000	0.00	0.41	38.30
98.20	0.63	3,867.371	0.000	0.00	0.63	43.60
98.30	0.88	4,321.560	0.000	0.00	0.88	48.90
98.40	1.16	4,773.688	0.000	0.00	1.16	54.21
98.50	1.47	5,223.256	0.000	0.00	1.47	59.51
98.60	1.79	5,669.513	0.000	0.00	1.79	64.78
98.70	1.97	6,112.213	0.000	0.00	1.97	69.88
98.80	2.14	6,550.101	0.000	0.00	2.14	74.92
98.90	2.67	6,983.809	0.000	0.00	2.67	80.27
99.00	3.51	7,412.837	0.000	0.00	3.51	85.88
99.10	4.55	7,836.185	0.000	0.00	4.55	91.62
99.20	5.74	8,253.102	0.000	0.00	5.74	97.44
99.30	7.07	8,662.210	0.000	0.00	7.07	103.32
99.40	8.53	9,061.752	0.000	0.00	8.53	109.21
99.50	10.09	9,452.738	0.000	0.00	10.09	115.12
99.60	11.76	9,833.287	0.000	0.00	11.76	121.02
99.70	13.53	10,198.503	0.000	0.00	13.53	126.84
99.80	15.39	10,545.501	0.000	0.00	15.39	132.56

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB20
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.90	17.33	10,863.483	0.000	0.00	17.33	138.04
100.00	19.36	11,157.978	0.000	0.00	19.36	143.34
100.10	21.47	11,440.796	0.000	0.00	21.47	148.58
100.20	23.65	11,717.717	0.000	0.00	23.65	153.85
100.30	25.91	11,996.657	0.000	0.00	25.91	159.20
100.40	28.24	12,277.619	0.000	0.00	28.24	164.65
100.50	30.63	12,560.607	0.000	0.00	30.63	170.20
100.60	33.10	12,845.623	0.000	0.00	33.10	175.83

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB20 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	97.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.57 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.30 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	98.97 ft
Volume (Peak)	7,303.652 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	23,213.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	21,545.000 ft³
Volume (Retained)	1,668.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB20 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	97.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	11.96 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	9.06 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	99.43 ft
Volume (Peak)	9,194.190 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	41,923.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	40,254.000 ft³
Volume (Retained)	1,669.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB20 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	97.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	25.47 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	22.08 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	100.13 ft
Volume (Peak)	11,518.164 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	88,320.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	86,651.000 ft³
Volume (Retained)	1,669.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB20 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB20'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA20 Imp
Out49	UGB49
Out21	UGB21
Out48	UGB48
<Catchment to Outflow Node>	DA20 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA20 Imp	8,896.651	12.10	2.78
Flow (From)	Out49	4,025.870	12.10	1.18
Flow (From)	Out21	6,533.969	12.15	1.79
Flow (From)	Out48	2,649.642	12.15	0.74
Flow (From)	DA20 Perv	1,106.491	12.10	0.31
Flow (In)	UGB20	23,212.622	12.10	6.57

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB20 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB20'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA20 Imp
Out49	UGB49
Out21	UGB21
Out48	UGB48
<Catchment to Outflow Node>	DA20 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA20 Imp	14,611.454	12.10	4.45
Flow (From)	Out49	7,406.676	12.10	2.21
Flow (From)	Out21	11,974.314	12.15	3.24
Flow (From)	Out48	4,832.411	12.15	1.32
Flow (From)	DA20 Perv	3,097.663	12.10	1.02
Flow (In)	UGB20	41,922.517	12.10	11.96

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB20 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB20'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA20 Imp
Out49	UGB49
Out21	UGB21
Out48	UGB48
<Catchment to Outflow Node>	DA20 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA20 Imp	27,818.721	12.10	8.29
Flow (From)	Out49	15,846.824	12.10	4.77
Flow (From)	Out21	25,365.265	12.15	6.80
Flow (From)	Out48	10,197.210	12.10	2.79
Flow (From)	DA20 Perv	9,092.419	12.10	3.05
Flow (In)	UGB20	88,320.439	12.10	25.47

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB21
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.000	0.00	0.00	0.00
98.10	0.00	28.416	0.000	0.00	0.00	0.32
98.20	0.00	57.319	0.000	0.00	0.00	0.64
98.30	0.00	86.712	0.000	0.00	0.00	0.96
98.40	0.00	116.599	0.000	0.00	0.00	1.30
98.50	0.00	146.982	0.000	0.00	0.00	1.63
98.60	0.00	206.454	0.000	0.00	0.00	2.29
98.70	0.00	266.261	0.000	0.00	0.00	2.96
98.80	0.00	326.251	0.000	0.00	0.00	3.63
98.90	0.00	386.427	0.000	0.00	0.00	4.29
99.00	0.00	446.716	0.000	0.00	0.00	4.96
99.10	0.00	507.013	0.000	0.00	0.00	5.63
99.20	0.00	567.290	0.000	0.00	0.00	6.30
99.25	0.00	597.444	0.000	0.00	0.00	6.64
99.30	0.03	627.598	0.000	0.00	0.03	7.00
99.40	0.13	687.878	0.000	0.00	0.13	7.77
99.50	0.28	748.040	0.000	0.00	0.28	8.59
99.60	0.47	808.057	0.000	0.00	0.47	9.44
99.70	0.68	867.779	0.000	0.00	0.68	10.32
99.80	0.92	927.285	0.000	0.00	0.92	11.22
99.90	1.18	986.518	0.000	0.00	1.18	12.14
100.00	1.46	1,045.357	0.000	0.00	1.46	13.08
100.10	1.76	1,103.713	0.000	0.00	1.76	14.03
100.20	2.08	1,161.421	0.000	0.00	2.08	14.99
100.30	2.42	1,218.268	0.000	0.00	2.42	15.96
100.40	2.77	1,274.380	0.000	0.00	2.77	16.93
100.50	3.14	1,329.531	0.000	0.00	3.14	17.92
100.60	3.53	1,383.122	0.000	0.00	3.53	18.90
100.70	3.93	1,434.805	0.000	0.00	3.93	19.87

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB21
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.80	4.34	1,483.260	0.000	0.00	4.34	20.82
100.90	4.77	1,529.165	0.000	0.00	4.77	21.76
101.00	5.21	1,573.971	0.000	0.00	5.21	22.70
101.10	5.66	1,618.388	0.000	0.00	5.66	23.64
101.20	6.13	1,663.388	0.000	0.00	6.13	24.61
101.30	6.60	1,708.974	0.000	0.00	6.60	25.59
101.40	7.09	1,755.149	0.000	0.00	7.09	26.59
101.50	7.59	1,801.917	0.000	0.00	7.59	27.62

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB21 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.09 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.79 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	100.11 ft
Volume (Peak)	1,108.672 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,131.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	6,534.000 ft³
Volume (Retained)	597.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB21 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.66 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.24 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	100.53 ft
Volume (Peak)	1,342.946 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	12,572.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	11,974.000 ft³
Volume (Retained)	597.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB21 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.46 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	6.80 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	101.34 ft
Volume (Peak)	1,727.574 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	25,963.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	25,365.000 ft³
Volume (Retained)	597.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB21 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB21'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA21 Perv
<Catchment to Outflow Node>	DA21 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA21 Perv	636.268	12.15	0.17
Flow (From)	DA21 Imp	6,495.143	12.10	1.94
Flow (In)	UGB21	7,131.411	12.10	2.09

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB21 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB21'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA21 Perv
<Catchment to Outflow Node>	DA21 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA21 Perv	1,781.207	12.10	0.52
Flow (From)	DA21 Imp	10,790.550	12.10	3.14
Flow (In)	UGB21	12,571.756	12.10	3.66

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB21 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB21'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA21 Perv
<Catchment to Outflow Node>	DA21 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA21 Perv	5,228.167	12.10	1.59
Flow (From)	DA21 Imp	20,734.543	12.10	5.87
Flow (In)	UGB21	25,962.710	12.10	7.46

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB22 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
107.00	0.00	0.000	0.000	0.00	0.00	0.00
107.25	0.00	1,028.256	0.000	0.00	0.00	11.43
107.50	0.00	2,068.919	0.000	0.00	0.00	22.99
107.75	0.00	4,267.923	0.000	0.00	0.00	47.42
108.00	0.00	6,449.450	0.000	0.00	0.00	71.66
108.25	0.56	8,594.895	0.000	0.00	0.56	96.06
108.50	1.59	10,700.163	0.000	0.00	1.59	120.48
108.75	2.92	12,745.666	0.000	0.00	2.92	144.54
109.00	4.50	14,724.823	0.000	0.00	4.50	168.11
109.25	6.29	16,606.658	0.000	0.00	6.29	190.81
109.50	8.27	18,370.211	0.000	0.00	8.27	212.38
109.75	10.42	19,924.550	0.000	0.00	10.42	231.80
110.00	12.73	21,201.878	0.000	0.00	12.73	248.30
110.25	15.19	22,388.534	0.000	0.00	15.19	263.95
110.50	17.79	23,588.173	0.000	0.00	17.79	279.88

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB22 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.69 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.28 ft³/s	Time to Peak (Flow, Outlet)	13.30 hours

Elevation (Water Surface, Peak)	108.12 ft
Volume (Peak)	7,516.131 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,783.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,334.000 ft³
Volume (Retained)	6,449.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB22 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.49 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.55 ft³/s	Time to Peak (Flow, Outlet)	12.35 hours

Elevation (Water Surface, Peak)	108.49 ft
Volume (Peak)	10,622.761 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	21,002.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	14,553.000 ft³
Volume (Retained)	6,449.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB22 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	13.31 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	6.03 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	109.21 ft
Volume (Peak)	16,342.337 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	43,810.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	37,361.000 ft³
Volume (Retained)	6,449.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB22 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB22'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA22 Imp
<Catchment to Outflow Node>	DA22 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA22 Imp	10,372.358	12.10	3.31
Flow (From)	DA22 Perv	1,410.878	12.15	0.38
Flow (In)	UGB22	11,783.236	12.10	3.69

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB22 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB22'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA22 Imp
<Catchment to Outflow Node>	DA22 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA22 Imp	17,228.746	12.10	5.34
Flow (From)	DA22 Perv	3,773.264	12.10	1.15
Flow (In)	UGB22	21,002.010	12.10	6.49

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB22 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB22'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA22 Imp
<Catchment to Outflow Node>	DA22 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA22 Imp	33,102.220	12.10	9.97
Flow (From)	DA22 Perv	10,707.967	12.10	3.34
Flow (In)	UGB22	43,810.187	12.10	13.31

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB27
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.00	0.00	0.000	0.051	0.00	0.00	0.00
99.25	0.00	226.411	0.053	0.03	0.03	2.54
99.50	0.00	459.077	0.054	0.03	0.03	5.13
99.75	0.00	936.146	0.056	0.03	0.03	10.43
100.00	0.00	1,413.479	0.057	0.03	0.03	15.73
100.25	0.00	1,886.689	0.059	0.03	0.03	20.99
100.50	0.00	2,356.093	0.060	0.03	0.03	26.21
100.72	0.00	2,760.461	0.062	0.03	0.03	30.70
100.75	0.02	2,816.353	0.062	0.03	0.05	31.34
101.00	0.44	3,266.814	0.063	0.03	0.48	36.77
101.25	1.16	3,699.744	0.065	0.03	1.19	42.30
101.50	2.07	4,115.283	0.067	0.03	2.10	47.83
101.75	3.14	4,490.485	0.068	0.03	3.17	53.06
102.00	4.34	4,817.997	0.070	0.04	4.38	57.91
102.25	5.68	5,127.723	0.071	0.04	5.71	62.69
102.50	7.12	5,442.513	0.073	0.04	7.16	67.63
102.72	8.49	5,725.529	0.075	0.04	8.52	72.14

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB27 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.13 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	1.89 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	101.45 ft
Volume (Peak)	4,037.951 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,247.000 ft³
Volume (Total Infiltration)	4,697.000 ft³
Volume (Total Outlet Outflow)	5,280.000 ft³
Volume (Retained)	270.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB27 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.99 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	3.82 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	101.89 ft
Volume (Peak)	4,682.779 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	16,637.000 ft³
Volume (Total Infiltration)	4,872.000 ft³
Volume (Total Outlet Outflow)	11,467.000 ft³
Volume (Retained)	298.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB27 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.27 ft³/s	Time to Peak (Flow, In)	12.05 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	12.10 hours
Flow (Peak Outlet)	7.97 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	102.64 ft
Volume (Peak)	5,617.200 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	31,387.000 ft³
Volume (Total Infiltration)	5,044.000 ft³
Volume (Total Outlet Outflow)	26,027.000 ft³
Volume (Retained)	315.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB27 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB27'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA27 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA27 Imp	10,246.881	12.10	3.13
Flow (In)	UGB27	10,246.881	12.10	3.13

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB27 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB27'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA27 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA27 Imp	16,637.114	12.10	4.99
Flow (In)	UGB27	16,637.114	12.10	4.99

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB27 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB27'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA27 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA27 Imp	31,387.080	12.05	9.27
Flow (In)	UGB27	31,387.080	12.05	9.27

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB3 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
85.50	0.00	0.000	0.000	0.00	0.00	0.00
85.60	0.05	63.256	0.022	0.01	0.06	0.77
85.70	0.16	177.824	0.031	0.02	0.17	2.15
85.80	0.30	324.664	0.038	0.02	0.32	3.92
85.90	0.50	496.718	0.044	0.02	0.52	6.04
86.00	0.71	689.770	0.050	0.03	0.74	8.40
86.10	0.90	900.879	0.055	0.03	0.93	10.94
86.20	1.15	1,127.810	0.059	0.03	1.18	13.71
86.30	1.41	1,368.771	0.064	0.03	1.44	16.65
86.40	1.70	1,622.270	0.068	0.03	1.73	19.76
86.50	2.00	1,887.027	0.072	0.04	2.03	23.00
86.60	2.32	2,161.918	0.076	0.04	2.35	26.38
86.70	2.65	2,445.942	0.079	0.04	2.69	29.87
86.80	3.00	2,738.191	0.083	0.04	3.04	33.46
86.90	3.36	3,037.832	0.086	0.04	3.40	37.16
87.00	3.74	3,344.091	0.090	0.05	3.78	40.94
87.10	4.13	3,656.246	0.093	0.05	4.17	44.80
87.20	4.53	3,973.612	0.096	0.05	4.58	48.73
87.30	4.94	4,295.541	0.100	0.05	4.99	52.72
87.40	5.37	4,621.409	0.103	0.05	5.42	56.77
87.50	5.81	4,950.615	0.106	0.05	5.86	60.87
87.60	6.26	5,282.579	0.109	0.06	6.31	65.01
87.70	6.72	5,616.732	0.112	0.06	6.78	69.19
87.80	7.19	5,952.518	0.115	0.06	7.25	73.39
87.90	7.67	6,289.387	0.119	0.06	7.73	77.62
88.00	8.17	6,626.797	0.122	0.06	8.23	81.86
88.10	8.67	6,964.207	0.125	0.06	8.73	86.11
88.20	9.18	7,301.076	0.128	0.06	9.25	90.37

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB3 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
88.30	9.70	7,636.862	0.131	0.07	9.77	94.62
88.40	10.23	7,971.015	0.134	0.07	10.30	98.87
88.50	10.82	8,302.979	0.137	0.07	10.88	103.14
88.60	11.32	8,632.185	0.140	0.07	11.39	107.31
88.70	11.88	8,958.053	0.144	0.07	11.95	111.48
88.80	12.44	9,279.982	0.147	0.07	12.52	115.63
88.90	13.02	9,597.348	0.150	0.08	13.09	119.73
89.00	13.60	9,909.503	0.154	0.08	13.68	123.78
89.10	14.19	10,215.762	0.157	0.08	14.27	127.77
89.20	14.78	10,515.403	0.160	0.08	14.86	131.70
89.30	15.39	10,807.652	0.164	0.08	15.47	135.55
89.40	16.00	11,091.676	0.168	0.08	16.08	139.32
89.50	16.61	11,366.567	0.172	0.09	16.70	143.00
89.60	17.24	11,631.324	0.176	0.09	17.32	146.56
89.70	17.87	11,884.823	0.180	0.09	17.96	150.01
89.80	18.50	12,125.784	0.184	0.09	18.59	153.32
89.90	19.14	12,352.715	0.189	0.10	19.23	156.48
90.00	19.78	12,563.824	0.194	0.10	19.88	159.47
90.10	20.42	12,756.876	0.199	0.10	20.52	162.27
90.20	21.07	12,928.930	0.205	0.10	21.17	164.82
90.30	21.71	13,075.770	0.212	0.11	21.81	167.10
90.40	22.36	13,190.338	0.221	0.11	22.47	169.03
90.50	22.98	13,253.594	0.243	0.12	23.11	170.37

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: UGB3 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
85.50	0.0	0.00
85.60	957.8	0.01
85.70	1,359.2	0.02
85.80	1,670.4	0.02
85.90	1,935.6	0.02
86.00	2,171.8	0.03
86.10	2,387.8	0.03
86.20	2,588.6	0.03
86.30	2,777.7	0.03
86.40	2,957.5	0.03
86.50	3,129.6	0.04
86.60	3,295.4	0.04
86.70	3,455.8	0.04
86.80	3,611.7	0.04
86.90	3,763.8	0.04
87.00	3,912.6	0.05
87.10	4,058.5	0.05
87.20	4,202.1	0.05
87.30	4,343.6	0.05
87.40	4,483.5	0.05
87.50	4,621.9	0.05
87.60	4,759.1	0.06
87.70	4,895.5	0.06
87.80	5,031.1	0.06
87.90	5,166.4	0.06
88.00	5,301.4	0.06
88.10	5,436.5	0.06
88.20	5,571.7	0.06
88.30	5,707.4	0.07
88.40	5,843.8	0.07
88.50	5,981.0	0.07
88.60	6,119.4	0.07
88.70	6,259.2	0.07
88.80	6,400.8	0.07
88.90	6,544.3	0.08
89.00	6,690.3	0.08
89.10	6,839.1	0.08
89.20	6,991.1	0.08
89.30	7,147.1	0.08
89.40	7,307.5	0.08
89.50	7,473.3	0.09
89.60	7,645.4	0.09

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: UGB3 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
89.70	7,825.1	0.09
89.80	8,014.3	0.09
89.90	8,215.1	0.10
90.00	8,431.1	0.10
90.10	8,667.3	0.10
90.20	8,932.5	0.10
90.30	9,243.7	0.11
90.40	9,645.1	0.11
90.50	10,602.9	0.12

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB3 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.51 ft³/s	Time to Peak (Flow, In)	17.40 hours
Infiltration (Peak)	0.02 ft³/s	Time to Peak (Infiltration)	17.65 hours
Flow (Peak Outlet)	0.48 ft³/s	Time to Peak (Flow, Outlet)	17.65 hours

Elevation (Water Surface, Peak)	85.89 ft
Volume (Peak)	481.667 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	25,366.000 ft³
Volume (Total Infiltration)	1,446.000 ft³
Volume (Total Outlet Outflow)	23,920.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB3 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.65 ft³/s	Time to Peak (Flow, In)	14.10 hours
Infiltration (Peak)	0.04 ft³/s	Time to Peak (Infiltration)	14.35 hours
Flow (Peak Outlet)	2.58 ft³/s	Time to Peak (Flow, Outlet)	14.35 hours

Elevation (Water Surface, Peak)	86.68 ft
Volume (Peak)	2,383.223 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	76,734.000 ft³
Volume (Total Infiltration)	2,425.000 ft³
Volume (Total Outlet Outflow)	74,309.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB3 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	22.18 ft³/s	Time to Peak (Flow, In)	12.45 hours
Flow (Peak Outlet)	21.25 ft³/s	Time to Peak (Flow, Outlet)	12.55 hours

Elevation (Water Surface, Peak)	90.23 ft
Volume (Peak)	11,119.285 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	212,594.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	212,574.000 ft³
Volume (Retained)	20.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB3 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB3'

Upstream Link	Upstream Node
Out35	Bio35
Out51	Bio51

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out35	22,214.991	18.20	0.45
Flow (From)	Out51	3,151.402	13.10	0.20
Flow (In)	UGB3	25,366.393	17.40	0.51

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB3 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB3'

Upstream Link	Upstream Node
Out35	Bio35
Out51	Bio51

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out35	67,275.499	14.20	2.38
Flow (From)	Out51	9,458.010	12.30	1.56
Flow (In)	UGB3	76,733.509	14.10	2.65

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB3 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB3'

Upstream Link	Upstream Node
Out35	Bio35
Out51	Bio51

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out35	186,201.396	12.50	18.75
Flow (From)	Out51	26,392.826	12.20	5.16
Flow (In)	UGB3	212,594.222	12.45	22.18

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB31 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	92.60 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
92.60	0.00	0.000	0.000	0.00	0.00	0.00
92.85	0.00	348.931	0.000	0.00	0.00	3.88
93.10	0.00	704.872	0.000	0.00	0.00	7.83
93.18	0.00	938.636	0.000	0.00	0.00	10.43
93.35	0.09	1,435.601	0.000	0.00	0.09	16.04
93.60	0.49	2,163.821	0.000	0.00	0.49	24.53
93.85	1.14	2,883.861	0.000	0.00	1.14	33.18
94.10	1.86	3,594.178	0.000	0.00	1.86	41.80
94.35	2.28	4,288.791	0.000	0.00	2.28	49.93
94.60	2.63	4,965.354	0.000	0.00	2.63	57.80
94.85	2.94	5,614.238	0.000	0.00	2.94	65.32
95.10	3.22	6,228.483	0.000	0.00	3.22	72.42
95.35	3.48	6,779.237	0.000	0.00	3.48	78.80
95.60	3.72	7,244.515	0.000	0.00	3.72	84.21
95.85	3.94	7,684.387	0.000	0.00	3.94	89.32
96.10	4.15	8,131.847	0.000	0.00	4.15	94.51

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB31 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	92.60 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.35 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.67 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	94.03 ft
Volume (Peak)	3,406.800 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,070.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	10,132.000 ft³
Volume (Retained)	939.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB31 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA31 Imp
<Catchment to Outflow Node>	DA31 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA31 Imp	7,478.035	12.10	2.32
Flow (From)	DA31 Perv	3,592.378	12.10	1.03
Flow (In)	UGB31	11,070.412	12.10	3.35

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB31 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA31 Imp
<Catchment to Outflow Node>	DA31 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA31 Imp	12,282.166	12.10	3.73
Flow (From)	DA31 Perv	5,833.176	12.10	1.64
Flow (In)	UGB31	18,115.342	12.10	5.36

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB31 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA31 Imp
<Catchment to Outflow Node>	DA31 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA31 Imp	23,384.607	12.10	6.94
Flow (From)	DA31 Perv	11,005.159	12.10	3.04
Flow (In)	UGB31	34,389.766	12.10	9.98

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB32
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
109.75	0.00	0.000	0.000	0.00	0.00	0.00
110.00	0.00	1,028.256	0.000	0.00	0.00	11.43
110.25	0.00	2,068.919	0.000	0.00	0.00	22.99
110.50	0.00	4,267.923	0.000	0.00	0.00	47.42
110.75	0.56	6,449.450	0.000	0.00	0.56	72.22
111.00	1.59	8,594.895	0.000	0.00	1.59	97.09
111.25	2.92	10,700.163	0.000	0.00	2.92	121.81
111.50	4.50	12,745.666	0.000	0.00	4.50	146.12
111.75	6.29	14,724.823	0.000	0.00	6.29	169.90
112.00	8.27	16,606.658	0.000	0.00	8.27	192.79
112.25	10.42	18,370.211	0.000	0.00	10.42	214.53
112.50	12.73	19,924.550	0.000	0.00	12.73	234.11
112.75	15.19	21,201.878	0.000	0.00	15.19	250.76
113.00	17.79	22,388.534	0.000	0.00	17.79	266.55
113.25	20.52	23,588.173	0.000	0.00	20.52	282.61

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB32 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.41 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.78 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	111.39 ft
Volume (Peak)	11,825.124 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	30,013.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	25,745.000 ft³
Volume (Retained)	4,268.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB32 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	15.38 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	7.30 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	111.88 ft
Volume (Peak)	15,696.484 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	49,995.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	45,727.000 ft³
Volume (Retained)	4,268.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB32 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	29.29 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	18.02 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	113.02 ft
Volume (Peak)	22,489.297 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	96,941.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	92,673.000 ft³
Volume (Retained)	4,268.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB32 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB32'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA32 Perv
<Catchment to Outflow Node>	DA32 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA32 Perv	610.849	12.10	0.21
Flow (From)	DA32 Imp	29,401.938	12.10	9.20
Flow (In)	UGB32	30,012.787	12.10	9.41

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB32 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB32'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA32 Perv
<Catchment to Outflow Node>	DA32 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA32 Perv	1,707.762	12.10	0.64
Flow (From)	DA32 Imp	48,287.380	12.10	14.75
Flow (In)	UGB32	49,995.142	12.10	15.38

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB32 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB32'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA32 Perv
<Catchment to Outflow Node>	DA32 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA32 Perv	5,007.454	12.10	1.84
Flow (From)	DA32 Imp	91,933.109	12.10	27.46
Flow (In)	UGB32	96,940.563	12.10	29.29

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB33
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
105.82	0.00	0.000	0.000	0.00	0.00	0.00
106.07	0.00	226.411	0.000	0.00	0.00	2.52
106.32	0.00	459.077	0.000	0.00	0.00	5.10
106.40	0.00	611.279	0.000	0.00	0.00	6.79
106.57	0.32	935.435	0.000	0.00	0.32	10.71
106.82	1.22	1,411.941	0.000	0.00	1.22	16.91
107.07	2.47	1,885.100	0.000	0.00	2.47	23.41
107.32	3.97	2,353.786	0.000	0.00	3.97	30.12
107.57	5.69	2,814.308	0.000	0.00	5.69	36.97
107.82	7.61	3,265.020	0.000	0.00	7.61	43.89
108.07	9.71	3,699.879	0.000	0.00	9.71	50.82
108.32	11.97	4,114.257	0.000	0.00	11.97	57.69
108.57	14.38	4,489.716	0.000	0.00	14.38	64.27
108.82	16.94	4,811.931	0.000	0.00	16.94	70.41
109.07	19.63	5,119.834	0.000	0.00	19.63	76.52
109.32	22.45	5,434.568	0.000	0.00	22.45	82.84

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB33
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
105.82	0.00	0.000	0.000	0.00	0.00	0.00
106.07	0.00	226.411	0.000	0.00	0.00	2.52
106.32	0.00	459.077	0.000	0.00	0.00	5.10
106.40	0.00	611.279	0.000	0.00	0.00	6.79
106.57	0.32	935.435	0.000	0.00	0.32	10.71
106.82	1.22	1,411.941	0.000	0.00	1.22	16.91
107.07	2.47	1,885.100	0.000	0.00	2.47	23.41
107.32	3.97	2,353.786	0.000	0.00	3.97	30.12
107.57	5.69	2,814.308	0.000	0.00	5.69	36.97
107.82	7.61	3,265.020	0.000	0.00	7.61	43.89
108.07	9.71	3,699.879	0.000	0.00	9.71	50.82
108.32	11.97	4,114.257	0.000	0.00	11.97	57.69
108.57	14.38	4,489.716	0.000	0.00	14.38	64.27
108.82	16.94	4,811.931	0.000	0.00	16.94	70.41
109.07	19.63	5,119.834	0.000	0.00	19.63	76.52
109.32	22.45	5,434.568	0.000	0.00	22.45	82.84

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB33
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
105.82	0.00	0.000	0.000	0.00	0.00	0.00
106.07	0.00	226.411	0.000	0.00	0.00	2.52
106.32	0.00	459.077	0.000	0.00	0.00	5.10
106.40	0.00	611.279	0.000	0.00	0.00	6.79
106.57	0.32	935.435	0.000	0.00	0.32	10.71
106.82	1.22	1,411.941	0.000	0.00	1.22	16.91
107.07	2.47	1,885.100	0.000	0.00	2.47	23.41
107.32	3.97	2,353.786	0.000	0.00	3.97	30.12
107.57	5.69	2,814.308	0.000	0.00	5.69	36.97
107.82	7.61	3,265.020	0.000	0.00	7.61	43.89
108.07	9.71	3,699.879	0.000	0.00	9.71	50.82
108.32	11.97	4,114.257	0.000	0.00	11.97	57.69
108.57	14.38	4,489.716	0.000	0.00	14.38	64.27
108.82	16.94	4,811.931	0.000	0.00	16.94	70.41
109.07	19.63	5,119.834	0.000	0.00	19.63	76.52
109.32	22.45	5,434.568	0.000	0.00	22.45	82.84

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB33 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.22 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	4.56 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	107.41 ft
Volume (Peak)	2,513.566 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	34,457.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	33,846.000 ft³
Volume (Retained)	611.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB33 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.96 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	8.98 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	107.98 ft
Volume (Peak)	3,550.635 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	61,250.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	60,639.000 ft³
Volume (Retained)	611.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB33 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	23.45 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	22.31 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	109.31 ft
Volume (Peak)	5,418.787 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	124,701.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	124,090.000 ft³
Volume (Retained)	611.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB33 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB33'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA33 Perv
Out34	UGB34
Out32	UGB32
<Catchment to Outflow Node>	DA33 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA33 Perv	249.233	12.10	0.08
Flow (From)	Out34	4,078.889	12.25	0.47
Flow (From)	Out32	25,744.863	12.15	3.78
Flow (From)	DA33 Imp	4,384.315	12.10	1.37
Flow (In)	UGB33	34,457.301	12.10	5.22

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB33 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB33'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA33 Perv
Out34	UGB34
Out32	UGB32
<Catchment to Outflow Node>	DA33 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA33 Perv	697.459	12.10	0.26
Flow (From)	Out34	7,624.944	12.20	1.03
Flow (From)	Out32	45,727.218	12.15	7.30
Flow (From)	DA33 Imp	7,200.569	12.10	2.19
Flow (In)	UGB33	61,250.190	12.10	9.96

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB33 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB33'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA33 Perv
Out34	UGB34
Out32	UGB32
<Catchment to Outflow Node>	DA33 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA33 Perv	2,046.580	12.10	0.75
Flow (From)	Out34	16,272.798	12.20	1.88
Flow (From)	Out32	92,672.639	12.15	18.02
Flow (From)	DA33 Imp	13,709.113	12.10	4.09
Flow (In)	UGB33	124,701.130	12.10	23.45

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB34
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
109.50	0.00	0.000	0.000	0.00	0.00	0.00
109.75	0.00	391.888	0.000	0.00	0.00	4.35
110.00	0.00	793.495	0.000	0.00	0.00	8.82
110.25	0.16	1,583.242	0.000	0.00	0.16	17.75
110.50	0.58	2,349.867	0.000	0.00	0.58	26.69
110.75	1.08	3,074.183	0.000	0.00	1.08	35.24
111.00	1.37	3,740.357	0.000	0.00	1.37	42.93
111.25	1.61	4,278.202	0.000	0.00	1.61	49.14
111.50	1.81	4,749.415	0.000	0.00	1.81	54.59
111.75	2.00	5,223.702	0.000	0.00	2.00	60.04
111.83	2.06	5,383.854	0.000	0.00	2.06	61.88

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB34 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.51 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.47 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	110.43 ft
Volume (Peak)	2,151.849 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,872.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	4,079.000 ft³
Volume (Retained)	793.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB34 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.60 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.03 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	110.72 ft
Volume (Peak)	2,997.719 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	8,418.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,625.000 ft³
Volume (Retained)	793.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB34 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.21 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.88 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	111.58 ft
Volume (Peak)	4,908.439 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	17,066.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	16,273.000 ft³
Volume (Retained)	793.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB34 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB34'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA34 Perv
<Catchment to Outflow Node>	DA34 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA34 Perv	359.548	12.10	0.10
Flow (From)	DA34 Imp	4,512.837	12.10	1.41
Flow (In)	UGB34	4,872.385	12.10	1.51

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB34 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB34'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA34 Perv
<Catchment to Outflow Node>	DA34 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA34 Perv	1,006.612	12.10	0.34
Flow (From)	DA34 Imp	7,411.827	12.10	2.26
Flow (In)	UGB34	8,418.439	12.10	2.60

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB34 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB34'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA34 Perv
<Catchment to Outflow Node>	DA34 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA34 Perv	2,954.768	12.10	1.01
Flow (From)	DA34 Imp	14,111.523	12.10	4.20
Flow (In)	UGB34	17,066.291	12.10	5.21

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB37 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.50	0.00	0.000	0.000	0.00	0.00	0.00
103.75	0.00	226.411	0.000	0.00	0.00	2.52
104.00	0.00	459.077	0.000	0.00	0.00	5.10
104.25	0.00	935.435	0.000	0.00	0.00	10.39
104.50	0.00	1,411.941	0.000	0.00	0.00	15.69
104.75	0.38	1,885.100	0.000	0.00	0.38	21.32
105.00	1.06	2,353.786	0.000	0.00	1.06	27.21
105.25	1.95	2,814.308	0.000	0.00	1.95	33.22
105.50	3.00	3,265.020	0.000	0.00	3.00	39.28
105.75	4.19	3,699.879	0.000	0.00	4.19	45.30
106.00	5.51	4,114.257	0.000	0.00	5.51	51.23
106.25	6.95	4,489.716	0.000	0.00	6.95	56.83
106.50	8.49	4,811.931	0.000	0.00	8.49	61.95
106.75	10.13	5,119.834	0.000	0.00	10.13	67.01
107.00	11.86	5,434.568	0.000	0.00	11.86	72.24

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB37 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.55 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.79 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	104.90 ft
Volume (Peak)	2,170.239 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	5,011.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,599.000 ft³
Volume (Retained)	1,412.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB37 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.72 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.73 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	105.19 ft
Volume (Peak)	2,703.816 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	8,806.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,394.000 ft³
Volume (Retained)	1,412.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB37 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.60 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.96 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	105.70 ft
Volume (Peak)	3,618.554 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	18,203.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	16,791.000 ft³
Volume (Retained)	1,412.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB37 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB37'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA37 Imp
<Catchment to Outflow Node>	DA37 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA37 Imp	4,513.186	12.10	1.41
Flow (From)	DA37 Perv	497.882	12.10	0.14
Flow (In)	UGB37	5,011.068	12.10	1.55

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB37 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB37'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA37 Imp
<Catchment to Outflow Node>	DA37 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA37 Imp	7,412.165	12.10	2.26
Flow (From)	DA37 Perv	1,393.855	12.10	0.46
Flow (In)	UGB37	8,806.021	12.10	2.72

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB37 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB37'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA37 Imp
<Catchment to Outflow Node>	DA37 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA37 Imp	14,111.913	12.10	4.21
Flow (From)	DA37 Perv	4,091.364	12.10	1.38
Flow (In)	UGB37	18,203.277	12.10	5.60

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB4
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
85.10	0.00	0.000	0.098	0.00	0.00	0.00
85.35	0.00	430.166	0.100	0.05	0.05	4.83
85.60	0.00	867.457	0.101	0.05	0.05	9.69
85.85	0.00	1,771.832	0.103	0.05	0.05	19.74
86.10	0.00	2,671.659	0.105	0.05	0.05	29.74
86.35	0.38	3,557.990	0.106	0.05	0.43	39.96
86.60	1.06	4,431.816	0.108	0.05	1.12	50.36
86.85	1.95	5,282.337	0.110	0.06	2.00	60.70
87.10	3.00	6,108.681	0.112	0.06	3.06	70.93
87.35	4.19	6,895.409	0.114	0.06	4.25	80.87
87.60	5.51	7,643.188	0.115	0.06	5.57	90.49
87.85	6.95	8,307.167	0.117	0.06	7.00	99.31
88.10	8.49	8,873.528	0.119	0.06	8.55	107.14
88.35	10.13	9,399.634	0.121	0.06	10.19	114.63
88.60	11.86	9,929.935	0.123	0.06	11.92	122.25
88.82	13.46	10,403.360	0.124	0.06	13.52	129.11

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: UGB4 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
85.10	4,263.2	0.00
85.35	4,337.2	0.05
85.60	4,411.7	0.05
85.85	4,486.6	0.05
86.10	4,562.1	0.05
86.35	4,638.1	0.05
86.60	4,714.5	0.05
86.85	4,791.5	0.06
87.10	4,869.0	0.06
87.35	4,946.9	0.06
87.60	5,025.4	0.06
87.85	5,104.3	0.06
88.10	5,183.8	0.06
88.35	5,263.8	0.06
88.60	5,344.2	0.06
88.82	5,415.5	0.06

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB4 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.42 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.05 ft³/s	Time to Peak (Infiltration)	12.25 hours
Flow (Peak Outlet)	1.10 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	86.61 ft
Volume (Peak)	4,473.044 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,160.000 ft³
Volume (Total Infiltration)	5,927.000 ft³
Volume (Total Outlet Outflow)	5,230.000 ft³
Volume (Retained)	2.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB4 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.73 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.06 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	3.01 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	87.10 ft
Volume (Peak)	6,112.814 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	19,013.000 ft³
Volume (Total Infiltration)	6,441.000 ft³
Volume (Total Outlet Outflow)	12,570.000 ft³
Volume (Retained)	3.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB4 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	11.15 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.06 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	7.30 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	87.91 ft
Volume (Peak)	8,447.742 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	37,711.000 ft³
Volume (Total Infiltration)	6,927.000 ft³
Volume (Total Outlet Outflow)	30,780.000 ft³
Volume (Retained)	4.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB4 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB4'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA4 Imp
<Catchment to Outflow Node>	DA4 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA4 Imp	10,741.463	12.10	3.28
Flow (From)	DA4 Perv	418.744	12.10	0.15
Flow (In)	UGB4	11,160.207	12.10	3.42

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB4 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB4'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA4 Imp
<Catchment to Outflow Node>	DA4 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA4 Imp	17,845.143	12.10	5.29
Flow (From)	DA4 Perv	1,168.303	12.10	0.44
Flow (In)	UGB4	19,013.445	12.10	5.73

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB4 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB4'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA4 Imp
<Catchment to Outflow Node>	DA4 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA4 Imp	34,290.370	12.10	9.90
Flow (From)	DA4 Perv	3,420.350	12.10	1.26
Flow (In)	UGB4	37,710.720	12.10	11.15

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB41
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.00	0.00	0.000	0.000	0.00	0.00	0.00
104.50	0.00	96.313	0.000	0.00	0.00	1.07
104.79	0.00	195.491	0.000	0.00	0.00	2.17
105.00	0.12	267.349	0.000	0.00	0.12	3.09
105.50	1.03	432.981	0.000	0.00	1.03	5.84
106.00	1.57	574.893	0.000	0.00	1.57	7.96
106.33	1.85	671.552	0.000	0.00	1.85	9.31

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB41 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.70 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.63 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	105.28 ft
Volume (Peak)	361.049 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	2,180.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	1,985.000 ft³
Volume (Retained)	195.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB41 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.15 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.03 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	105.50 ft
Volume (Peak)	433.790 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	3,684.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,489.000 ft³
Volume (Retained)	195.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB41 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.21 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.79 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	106.26 ft
Volume (Peak)	649.772 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,235.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,040.000 ft³
Volume (Retained)	195.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB41 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB41'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA41 Perv
<Catchment to Outflow Node>	DA41 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA41 Perv	55.832	12.10	0.02
Flow (From)	DA41 Imp	2,124.376	12.10	0.68
Flow (In)	UGB41	2,180.208	12.10	0.70

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB41 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB41'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA41 Perv
<Catchment to Outflow Node>	DA41 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA41 Perv	155.774	12.10	0.06
Flow (From)	DA41 Imp	3,528.541	12.10	1.09
Flow (In)	UGB41	3,684.314	12.10	1.15

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB41 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB41'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA41 Perv
<Catchment to Outflow Node>	DA41 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA41 Perv	456.047	12.10	0.17
Flow (From)	DA41 Imp	6,779.409	12.10	2.04
Flow (In)	UGB41	7,235.456	12.10	2.21

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB42
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
95.00	0.00	0.000	0.000	0.00	0.00	0.00
95.25	0.00	196.849	0.000	0.00	0.00	2.19
95.50	0.00	399.269	0.000	0.00	0.00	4.44
95.75	0.00	813.059	0.000	0.00	0.00	9.03
96.00	0.00	1,227.140	0.000	0.00	0.00	13.63
96.25	0.28	1,638.504	0.000	0.00	0.28	18.49
96.50	0.80	2,046.168	0.000	0.00	0.80	23.53
96.75	1.46	2,446.954	0.000	0.00	1.46	28.65
97.00	2.25	2,839.426	0.000	0.00	2.25	33.80
97.25	3.14	3,218.371	0.000	0.00	3.14	38.90
97.50	4.13	3,579.767	0.000	0.00	4.13	43.91
97.75	5.21	3,907.659	0.000	0.00	5.21	48.63
98.00	6.36	4,189.620	0.000	0.00	6.36	52.92
98.25	7.59	4,459.417	0.000	0.00	7.59	57.14
98.50	8.89	4,735.361	0.000	0.00	8.89	61.51

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB42 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.34 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.39 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	96.72 ft
Volume (Peak)	2,403.253 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,170.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,943.000 ft³
Volume (Retained)	1,227.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB42 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.12 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.75 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	97.14 ft
Volume (Peak)	3,053.991 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	12,856.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	11,629.000 ft³
Volume (Retained)	1,227.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB42 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.40 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	6.49 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	98.02 ft
Volume (Peak)	4,216.350 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	26,833.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	25,606.000 ft³
Volume (Retained)	1,227.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB42 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB42'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA42 Imp
<Catchment to Outflow Node>	DA42 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA42 Imp	6,561.673	12.10	2.17
Flow (From)	DA42 Perv	608.456	12.10	0.18
Flow (In)	UGB42	7,170.130	12.10	2.34

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB42 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB42'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA42 Imp
<Catchment to Outflow Node>	DA42 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA42 Imp	11,152.911	12.10	3.55
Flow (From)	DA42 Perv	1,703.473	12.10	0.57
Flow (In)	UGB42	12,856.384	12.10	4.12

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB42 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB42'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA42 Imp
<Catchment to Outflow Node>	DA42 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA42 Imp	21,832.429	12.10	6.70
Flow (From)	DA42 Perv	5,000.316	12.10	1.71
Flow (In)	UGB42	26,832.746	12.10	8.40

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB43
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.048	0.00	0.00	0.00
98.25	0.00	211.630	0.049	0.02	0.02	2.38
98.50	0.00	429.173	0.051	0.03	0.03	4.79
98.75	0.00	874.247	0.052	0.03	0.03	9.74
99.00	0.00	1,319.541	0.054	0.03	0.03	14.69
99.25	0.38	1,761.802	0.055	0.03	0.40	19.98
99.50	1.06	2,199.977	0.056	0.03	1.09	25.53
99.75	1.95	2,630.631	0.058	0.03	1.98	31.21
100.00	3.00	3,052.223	0.059	0.03	3.03	36.94
100.25	4.19	3,459.125	0.061	0.03	4.22	42.66
100.50	5.51	3,847.012	0.062	0.03	5.54	48.29
100.75	6.95	4,198.688	0.064	0.03	6.98	53.63
101.00	8.49	4,500.775	0.066	0.03	8.52	58.53
101.25	10.13	4,789.626	0.067	0.03	10.16	63.38
101.50	11.86	5,084.964	0.069	0.03	11.89	68.39

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB43 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.73 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	13.90 hours
Flow (Peak Outlet)	0.04 ft³/s	Time to Peak (Flow, Outlet)	13.90 hours

Elevation (Water Surface, Peak)	99.03 ft
Volume (Peak)	1,364.156 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	2,602.000 ft³
Volume (Total Infiltration)	2,419.000 ft³
Volume (Total Outlet Outflow)	182.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB43 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.69 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.35 hours
Flow (Peak Outlet)	0.66 ft³/s	Time to Peak (Flow, Outlet)	12.35 hours

Elevation (Water Surface, Peak)	99.35 ft
Volume (Peak)	1,945.798 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,076.000 ft³
Volume (Total Infiltration)	2,867.000 ft³
Volume (Total Outlet Outflow)	3,209.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB43 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.68 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	3.39 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	100.08 ft
Volume (Peak)	3,186.509 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	15,228.000 ft³
Volume (Total Infiltration)	3,255.000 ft³
Volume (Total Outlet Outflow)	11,971.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB43 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB43'

Upstream Link	Upstream Node
Out44	UGB44
<Catchment to Outflow Node>	DA43 Imp
<Catchment to Outflow Node>	DA43 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out44	208.560	13.05	0.04
Flow (From)	DA43 Imp	1,729.993	12.10	0.53
Flow (From)	DA43 Perv	663.259	12.10	0.20
Flow (In)	UGB43	2,601.812	12.10	0.73

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB43 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB43'

Upstream Link	Upstream Node
Out44	UGB44
<Catchment to Outflow Node>	DA43 Imp
<Catchment to Outflow Node>	DA43 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out44	1,660.348	12.20	0.45
Flow (From)	DA43 Imp	2,808.863	12.10	0.84
Flow (From)	DA43 Perv	1,607.151	12.10	0.52
Flow (In)	UGB43	6,076.362	12.10	1.69

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB43 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB43'

Upstream Link	Upstream Node
Out44	UGB44
<Catchment to Outflow Node>	DA43 Imp
<Catchment to Outflow Node>	DA43 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out44	5,703.254	12.15	1.79
Flow (From)	DA43 Imp	5,299.117	12.05	1.56
Flow (From)	DA43 Perv	4,225.757	12.10	1.36
Flow (In)	UGB43	15,228.129	12.10	4.68

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB44 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.00	0.00	0.000	0.048	0.00	0.00	0.00
101.25	0.00	211.630	0.049	0.02	0.02	2.38
101.50	0.00	429.173	0.051	0.03	0.03	4.79
101.75	0.00	874.247	0.052	0.03	0.03	9.74
102.00	0.00	1,319.541	0.054	0.03	0.03	14.69
102.25	0.38	1,761.802	0.055	0.03	0.40	19.98
102.50	1.06	2,199.977	0.056	0.03	1.09	25.53
102.75	1.95	2,630.631	0.058	0.03	1.98	31.21
103.00	3.00	3,052.223	0.059	0.03	3.03	36.94
103.25	4.19	3,459.125	0.061	0.03	4.22	42.66
103.50	5.51	3,847.012	0.062	0.03	5.54	48.29
103.75	6.95	4,198.688	0.064	0.03	6.98	53.63
104.00	8.49	4,500.775	0.066	0.03	8.52	58.53
104.25	10.13	4,789.626	0.067	0.03	10.16	63.38
104.50	11.86	5,084.964	0.069	0.03	11.89	68.39

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB44 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.86 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	13.05 hours
Flow (Peak Outlet)	0.04 ft³/s	Time to Peak (Flow, Outlet)	13.05 hours

Elevation (Water Surface, Peak)	102.03 ft
Volume (Peak)	1,371.344 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	2,626.000 ft³
Volume (Total Infiltration)	2,417.000 ft³
Volume (Total Outlet Outflow)	209.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB44 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.43 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	0.45 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	102.28 ft
Volume (Peak)	1,808.538 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,504.000 ft³
Volume (Total Infiltration)	2,843.000 ft³
Volume (Total Outlet Outflow)	1,660.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB44 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.77 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.15 hours
Flow (Peak Outlet)	1.79 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	102.70 ft
Volume (Peak)	2,553.861 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	8,966.000 ft³
Volume (Total Infiltration)	3,261.000 ft³
Volume (Total Outlet Outflow)	5,703.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB44 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB44'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA44 Imp
<Catchment to Outflow Node>	DA44 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA44 Imp	2,542.032	12.10	0.83
Flow (From)	DA44 Perv	83.696	12.10	0.03
Flow (In)	UGB44	2,625.728	12.10	0.86

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB44 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB44'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA44 Imp
<Catchment to Outflow Node>	DA44 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA44 Imp	4,270.839	12.10	1.34
Flow (From)	DA44 Perv	233.581	12.10	0.09
Flow (In)	UGB44	4,504.420	12.10	1.43

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB44 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB44'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA44 Imp
<Catchment to Outflow Node>	DA44 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA44 Imp	8,281.892	12.10	2.52
Flow (From)	DA44 Perv	683.983	12.10	0.25
Flow (In)	UGB44	8,965.874	12.10	2.77

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB46
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.00	0.00	0.000	0.000	0.00	0.00	0.00
103.10	0.00	23.061	0.000	0.00	0.00	0.26
103.20	0.00	46.629	0.000	0.00	0.00	0.52
103.30	0.00	70.705	0.000	0.00	0.00	0.79
103.40	0.00	95.294	0.000	0.00	0.00	1.06
103.50	0.00	120.399	0.000	0.00	0.00	1.34
103.60	0.00	168.682	0.000	0.00	0.00	1.87
103.70	0.00	216.200	0.000	0.00	0.00	2.40
103.80	0.00	265.672	0.000	0.00	0.00	2.95
103.90	0.00	313.554	0.000	0.00	0.00	3.48
104.00	0.00	363.214	0.000	0.00	0.00	4.04
104.10	0.00	412.677	0.000	0.00	0.00	4.59
104.20	0.00	461.250	0.000	0.00	0.00	5.12
104.30	0.00	511.526	0.000	0.00	0.00	5.68
104.34	0.00	531.017	0.000	0.00	0.00	5.90
104.40	0.01	560.254	0.000	0.00	0.01	6.24
104.50	0.08	610.426	0.000	0.00	0.08	6.86
104.60	0.20	660.285	0.000	0.00	0.20	7.54
104.70	0.37	709.062	0.000	0.00	0.37	8.25
104.80	0.58	759.475	0.000	0.00	0.58	9.02
104.90	0.83	808.215	0.000	0.00	0.83	9.81
105.00	1.11	857.650	0.000	0.00	1.11	10.64
105.10	1.41	906.656	0.000	0.00	1.41	11.48
105.20	1.75	954.579	0.000	0.00	1.75	12.35
105.30	1.93	1,003.340	0.000	0.00	1.93	13.08
105.40	2.11	1,050.792	0.000	0.00	2.11	13.78
105.50	2.26	1,098.110	0.000	0.00	2.26	14.46
105.60	2.41	1,144.016	0.000	0.00	2.41	15.12
105.70	2.55	1,188.407	0.000	0.00	2.55	15.75

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB46 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
105.80	2.68	1,231.485	0.000	0.00	2.68	16.36
105.90	2.81	1,272.904	0.000	0.00	2.81	16.95
106.00	2.93	1,312.627	0.000	0.00	2.93	17.51
106.10	3.04	1,352.458	0.000	0.00	3.04	18.07
106.20	3.15	1,392.890	0.000	0.00	3.15	18.63
106.30	3.26	1,433.768	0.000	0.00	3.26	19.19
106.40	3.37	1,475.215	0.000	0.00	3.37	19.76
106.50	3.47	1,517.273	0.000	0.00	3.47	20.32
106.60	3.56	1,559.945	0.000	0.00	3.56	20.90
106.70	3.66	1,603.236	0.000	0.00	3.66	21.47
106.72	3.68	1,611.968	0.000	0.00	3.68	21.59

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 100 years
Label: UGB46 Storm Event: 100yr Projected NOAA D
Scenario: 100YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.00	0.00	0.000	0.000	0.00	0.00	0.00
103.10	0.00	23.061	0.000	0.00	0.00	0.26
103.20	0.00	46.629	0.000	0.00	0.00	0.52
103.30	0.00	70.705	0.000	0.00	0.00	0.79
103.40	0.00	95.294	0.000	0.00	0.00	1.06
103.50	0.00	120.399	0.000	0.00	0.00	1.34
103.60	0.00	168.682	0.000	0.00	0.00	1.87
103.70	0.00	216.200	0.000	0.00	0.00	2.40
103.80	0.00	265.672	0.000	0.00	0.00	2.95
103.90	0.00	313.554	0.000	0.00	0.00	3.48
104.00	0.00	363.214	0.000	0.00	0.00	4.04
104.10	0.00	412.677	0.000	0.00	0.00	4.59
104.20	0.00	461.250	0.000	0.00	0.00	5.12
104.30	0.00	511.526	0.000	0.00	0.00	5.68
104.34	0.00	531.017	0.000	0.00	0.00	5.90
104.40	0.01	560.254	0.000	0.00	0.01	6.24
104.50	0.08	610.426	0.000	0.00	0.08	6.86
104.60	0.20	660.285	0.000	0.00	0.20	7.54
104.70	0.37	709.062	0.000	0.00	0.37	8.25
104.80	0.58	759.475	0.000	0.00	0.58	9.02
104.90	0.83	808.215	0.000	0.00	0.83	9.81
105.00	1.11	857.650	0.000	0.00	1.11	10.64
105.10	1.41	906.656	0.000	0.00	1.41	11.48
105.20	1.75	954.579	0.000	0.00	1.75	12.35
105.30	1.93	1,003.340	0.000	0.00	1.93	13.08
105.40	2.11	1,050.792	0.000	0.00	2.11	13.78
105.50	2.26	1,098.110	0.000	0.00	2.26	14.46
105.60	2.41	1,144.016	0.000	0.00	2.41	15.12
105.70	2.55	1,188.407	0.000	0.00	2.55	15.75

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 100 years
Label: UGB46 Storm Event: 100yr Projected NOAA D
Scenario: 100YR Projected

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
105.80	2.68	1,231.485	0.000	0.00	2.68	16.36
105.90	2.81	1,272.904	0.000	0.00	2.81	16.95
106.00	2.93	1,312.627	0.000	0.00	2.93	17.51
106.10	3.04	1,352.458	0.000	0.00	3.04	18.07
106.20	3.15	1,392.890	0.000	0.00	3.15	18.63
106.30	3.26	1,433.768	0.000	0.00	3.26	19.19
106.40	3.37	1,475.215	0.000	0.00	3.37	19.76
106.50	3.47	1,517.273	0.000	0.00	3.47	20.32
106.60	3.56	1,559.945	0.000	0.00	3.56	20.90
106.70	3.66	1,603.236	0.000	0.00	3.66	21.47
106.72	3.68	1,611.968	0.000	0.00	3.68	21.59

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB46 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.34 ft^3/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.18 ft^3/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	105.02 ft
Volume (Peak)	869.143 ft^3

Mass Balance (ft^3)	
Volume (Initial)	0.000 ft^3
Volume (Total Inflow)	4,357.000 ft^3
Volume (Total Infiltration)	0.000 ft^3
Volume (Total Outlet Outflow)	3,826.000 ft^3
Volume (Retained)	531.000 ft^3
Volume (Unrouted)	0.000 ft^3
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB46 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.31 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.98 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	105.33 ft
Volume (Peak)	1,016.023 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,572.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,041.000 ft³
Volume (Retained)	531.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB46 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.65 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.47 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	106.51 ft
Volume (Peak)	1,520.901 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	15,455.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	14,924.000 ft³
Volume (Retained)	531.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB46 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB46'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA46 Imp
<Catchment to Outflow Node>	DA46 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA46 Imp	3,997.652	12.10	1.25
Flow (From)	DA46 Perv	359.607	12.15	0.09
Flow (In)	UGB46	4,357.260	12.10	1.34

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB46 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB46'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA46 Imp
<Catchment to Outflow Node>	DA46 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA46 Imp	6,565.427	12.10	2.00
Flow (From)	DA46 Perv	1,006.703	12.10	0.30
Flow (In)	UGB46	7,572.131	12.10	2.31

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB46 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB46'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA46 Imp
<Catchment to Outflow Node>	DA46 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA46 Imp	12,499.745	12.10	3.73
Flow (From)	DA46 Perv	2,954.867	12.10	0.92
Flow (In)	UGB46	15,454.612	12.10	4.65

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB47
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
108.00	0.00	0.000	0.000	0.00	0.00	0.00
108.10	0.00	83.867	0.000	0.00	0.00	0.93
108.20	0.00	168.714	0.000	0.00	0.00	1.87
108.30	0.00	254.546	0.000	0.00	0.00	2.83
108.40	0.00	341.364	0.000	0.00	0.00	3.79
108.50	0.00	429.173	0.000	0.00	0.00	4.77
108.60	0.00	608.617	0.000	0.00	0.00	6.76
108.70	0.00	783.908	0.000	0.00	0.00	8.71
108.80	0.00	965.914	0.000	0.00	0.00	10.73
108.83	0.00	1,018.274	0.000	0.00	0.00	11.31
108.90	0.01	1,140.450	0.000	0.00	0.01	12.69
109.00	0.09	1,320.976	0.000	0.00	0.09	14.77
109.10	0.22	1,499.588	0.000	0.00	0.22	16.88
109.20	0.39	1,673.497	0.000	0.00	0.39	18.98
109.30	0.61	1,853.074	0.000	0.00	0.61	21.20
109.40	0.86	2,025.297	0.000	0.00	0.86	23.36
109.50	1.14	2,202.130	0.000	0.00	1.14	25.61
109.60	1.44	2,376.534	0.000	0.00	1.44	27.84
109.70	1.77	2,545.420	0.000	0.00	1.77	30.05
109.80	1.95	2,719.658	0.000	0.00	1.95	32.17
109.90	2.12	2,885.993	0.000	0.00	2.12	34.19
110.00	2.28	3,053.897	0.000	0.00	2.28	36.21
110.10	2.42	3,218.856	0.000	0.00	2.42	38.19
110.20	2.56	3,378.248	0.000	0.00	2.56	40.10
110.30	2.69	3,539.750	0.000	0.00	2.69	42.02
110.40	2.82	3,694.761	0.000	0.00	2.82	43.87
110.50	2.94	3,847.969	0.000	0.00	2.94	45.69
110.60	3.05	3,994.260	0.000	0.00	3.05	47.43
110.70	3.16	4,133.205	0.000	0.00	3.16	49.09

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB47 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
110.80	3.27	4,265.605	0.000	0.00	3.27	50.67
110.90	3.38	4,390.068	0.000	0.00	3.38	52.15
111.00	3.48	4,506.437	0.000	0.00	3.48	53.55
111.10	3.57	4,621.913	0.000	0.00	3.57	54.93
111.20	3.67	4,738.465	0.000	0.00	3.67	56.32
111.30	3.76	4,855.459	0.000	0.00	3.76	57.71
111.40	3.85	4,973.377	0.000	0.00	3.85	59.11
111.50	3.94	5,092.380	0.000	0.00	3.94	60.52
111.60	4.03	5,212.474	0.000	0.00	4.03	61.94
111.70	4.11	5,333.659	0.000	0.00	4.11	63.37
111.72	4.13	5,358.028	0.000	0.00	4.13	63.66

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB47 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.23 ft^3/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.36 ft^3/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	109.57 ft
Volume (Peak)	2,330.127 ft^3

Mass Balance (ft^3)	
Volume (Initial)	0.000 ft^3
Volume (Total Inflow)	7,664.000 ft^3
Volume (Total Infiltration)	0.000 ft^3
Volume (Total Outlet Outflow)	6,646.000 ft^3
Volume (Retained)	1,018.000 ft^3
Volume (Unrouted)	0.000 ft^3
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB47 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.84 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.24 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	109.98 ft
Volume (Peak)	3,017.980 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	13,548.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	12,530.000 ft³
Volume (Retained)	1,018.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB47 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.79 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	4.01 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	111.58 ft
Volume (Peak)	5,185.314 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	28,191.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	27,173.000 ft³
Volume (Retained)	1,018.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB47 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB47'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA47 Imp
<Catchment to Outflow Node>	DA47- Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA47 Imp	6,833.615	12.10	2.10
Flow (From)	DA47- Perv	830.293	12.20	0.18
Flow (In)	UGB47	7,663.908	12.10	2.23

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB47 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB47'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA47 Imp
<Catchment to Outflow Node>	DA47- Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA47 Imp	11,223.750	12.10	3.36
Flow (From)	DA47- Perv	2,324.228	12.15	0.60
Flow (In)	UGB47	13,547.979	12.10	3.84

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB47 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB47'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA47 Imp
<Catchment to Outflow Node>	DA47- Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA47 Imp	21,369.439	12.10	6.26
Flow (From)	DA47- Perv	6,821.626	12.15	1.83
Flow (In)	UGB47	28,191.065	12.10	7.79

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB48
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.90	0.00	0.000	0.000	0.00	0.00	0.00
101.15	0.00	49.217	0.000	0.00	0.00	0.55
101.40	0.00	100.702	0.000	0.00	0.00	1.12
101.65	0.00	202.067	0.000	0.00	0.00	2.25
101.70	0.00	222.466	0.000	0.00	0.00	2.47
101.90	0.15	304.555	0.000	0.00	0.15	3.53
102.15	0.72	407.599	0.000	0.00	0.72	5.25
102.40	1.64	510.918	0.000	0.00	1.64	7.32
102.65	2.85	613.914	0.000	0.00	2.85	9.67
102.90	4.22	716.193	0.000	0.00	4.22	12.18
103.15	5.36	816.695	0.000	0.00	5.36	14.44
103.40	6.12	914.423	0.000	0.00	6.12	16.28
103.65	6.80	1,005.843	0.000	0.00	6.80	17.97
103.90	7.41	1,088.014	0.000	0.00	7.41	19.50
104.15	7.98	1,168.881	0.000	0.00	7.98	20.97
104.40	8.51	1,252.592	0.000	0.00	8.51	22.43

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB48 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.87 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.74 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	102.16 ft
Volume (Peak)	409.765 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	2,872.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	2,650.000 ft³
Volume (Retained)	222.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB48 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.51 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.32 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	102.31 ft
Volume (Peak)	474.953 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	5,055.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	4,832.000 ft³
Volume (Retained)	222.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB48 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.08 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.79 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	102.64 ft
Volume (Peak)	608.911 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,420.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	10,197.000 ft³
Volume (Retained)	222.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB48 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB48'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA48 Imp
<Catchment to Outflow Node>	DA48 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA48 Imp	2,623.136	12.10	0.80
Flow (From)	DA48 Perv	248.973	12.10	0.07
Flow (In)	UGB48	2,872.108	12.10	0.87

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB48 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB48'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA48 Imp
<Catchment to Outflow Node>	DA48 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA48 Imp	4,357.894	12.10	1.29
Flow (From)	DA48 Perv	696.983	12.10	0.22
Flow (In)	UGB48	5,054.877	12.10	1.51

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB48 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB48'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA48 Imp
<Catchment to Outflow Node>	DA48 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA48 Imp	8,373.904	12.10	2.42
Flow (From)	DA48 Perv	2,045.771	12.10	0.66
Flow (In)	UGB48	10,419.675	12.10	3.08

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB49 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
102.70	0.00	0.000	0.000	0.00	0.00	0.00
102.95	0.00	61.036	0.000	0.00	0.00	0.68
103.20	0.00	124.663	0.000	0.00	0.00	1.39
103.45	0.00	246.416	0.000	0.00	0.00	2.74
103.64	0.00	339.816	0.000	0.00	0.00	3.78
103.70	0.01	369.409	0.000	0.00	0.01	4.12
103.95	0.35	492.966	0.000	0.00	0.35	5.83
104.20	1.09	616.758	0.000	0.00	1.09	7.94
104.45	2.14	740.069	0.000	0.00	2.14	10.37
104.70	3.43	862.444	0.000	0.00	3.43	13.01
104.95	4.89	982.624	0.000	0.00	4.89	15.81
105.20	5.71	1,099.451	0.000	0.00	5.71	17.93
105.45	6.43	1,208.781	0.000	0.00	6.43	19.86
105.70	7.08	1,307.186	0.000	0.00	7.08	21.60
105.95	7.67	1,403.916	0.000	0.00	7.67	23.27
106.20	8.22	1,503.813	0.000	0.00	8.22	24.93

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB49 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.35 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.18 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	104.22 ft
Volume (Peak)	628.314 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,366.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	4,026.000 ft³
Volume (Retained)	340.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB49 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.40 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.21 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	104.46 ft
Volume (Peak)	746.132 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,746.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,407.000 ft³
Volume (Retained)	340.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB49 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.00 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	4.77 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	104.93 ft
Volume (Peak)	973.164 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	16,187.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	15,847.000 ft³
Volume (Retained)	340.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB49 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB49'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA49 Imp
<Catchment to Outflow Node>	DA49 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA49 Imp	3,867.869	12.10	1.20
Flow (From)	DA49 Perv	497.816	12.10	0.15
Flow (In)	UGB49	4,365.685	12.10	1.35

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB49 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB49'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA49 Imp
<Catchment to Outflow Node>	DA49 Perv

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA49 Imp	6,352.687	12.10	1.93
Flow (From)	DA49 Perv	1,393.804	12.10	0.47
Flow (In)	UGB49	7,746.491	12.10	2.40

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB49 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB49'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA49 Imp
<Catchment to Outflow Node>	DA49 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA49 Imp	12,095.166	12.10	3.59
Flow (From)	DA49 Perv	4,091.472	12.10	1.41
Flow (In)	UGB49	16,186.637	12.10	5.00

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB5
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	12.20	96.92	2,271.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.10	3.72	0.00	0.00
Infiltration...	12.20	0.00	0.00	0.00
Pond Outflow...	12.20	2.18	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	16,505.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,687.000	Forward
Pond Outflow...	0.000	Reverse	14,817.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	16,505.000 ft³
Volume (Total Out ICPM)	16,504.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB5
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
12.15	97.37	2,555.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.10	7.31	0.00	0.00
Infiltration...	12.15	0.00	0.00	0.00
Pond Outflow...	12.15	6.39	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	29,434.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,813.000	Forward
Pond Outflow...	0.000	Reverse	27,620.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	29,434.000 ft³
Volume (Total Out ICPM)	29,433.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: UGB5 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
94.00	1,062.7	0.00
94.25	1,099.1	0.01
94.50	1,136.1	0.01
94.75	1,173.5	0.01
95.00	1,211.4	0.01
95.25	1,249.8	0.01
95.50	1,288.7	0.01
95.75	1,328.2	0.02
96.00	1,368.1	0.02
96.25	1,408.5	0.02
96.50	1,449.4	0.02
96.75	1,490.8	0.02
96.90	1,515.9	0.02
97.00	1,532.8	0.02
97.25	1,575.2	0.02
97.50	1,618.1	0.02

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB5
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	12.05	97.47	2,621.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	11.95	8.22	0.00	0.00
Infiltration...	12.05	0.00	0.00	0.00
Pond Outflow...	12.05	7.70	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	56,505.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,945.000	Forward
Pond Outflow...	0.000	Reverse	54,559.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	56,505.000 ft³
Volume (Total Out ICPM)	56,504.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB50
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.00	0.00	0.000	0.000	0.00	0.00	0.00
101.10	0.00	23.061	0.000	0.00	0.00	0.26
101.20	0.00	46.629	0.000	0.00	0.00	0.52
101.30	0.00	70.705	0.000	0.00	0.00	0.79
101.40	0.00	95.294	0.000	0.00	0.00	1.06
101.50	0.00	120.399	0.000	0.00	0.00	1.34
101.60	0.00	168.682	0.000	0.00	0.00	1.87
101.70	0.00	216.200	0.000	0.00	0.00	2.40
101.80	0.00	265.672	0.000	0.00	0.00	2.95
101.90	0.00	313.554	0.000	0.00	0.00	3.48
102.00	0.00	363.214	0.000	0.00	0.00	4.04
102.10	0.00	412.677	0.000	0.00	0.00	4.59
102.20	0.00	461.250	0.000	0.00	0.00	5.12
102.30	0.00	511.526	0.000	0.00	0.00	5.68
102.40	0.00	560.254	0.000	0.00	0.00	6.23
102.50	0.00	610.426	0.000	0.00	0.00	6.78
102.60	0.00	660.285	0.000	0.00	0.00	7.34
102.70	0.00	709.062	0.000	0.00	0.00	7.88
102.80	0.00	759.475	0.000	0.00	0.00	8.44
102.90	0.03	808.215	0.000	0.00	0.03	9.01
103.00	0.13	857.650	0.000	0.00	0.13	9.66
103.10	0.29	906.656	0.000	0.00	0.29	10.37
103.20	0.50	954.579	0.000	0.00	0.50	11.11
103.30	0.76	1,003.340	0.000	0.00	0.76	11.91
103.40	1.07	1,050.792	0.000	0.00	1.07	12.75
103.50	1.41	1,098.110	0.000	0.00	1.41	13.61
103.60	1.78	1,144.016	0.000	0.00	1.78	14.49
103.70	2.17	1,188.407	0.000	0.00	2.17	15.38
103.80	2.67	1,231.485	0.000	0.00	2.67	16.36

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB50 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.90	2.93	1,272.904	0.000	0.00	2.93	17.07
104.00	3.16	1,312.627	0.000	0.00	3.16	17.75
104.10	3.38	1,352.458	0.000	0.00	3.38	18.41
104.20	3.59	1,392.890	0.000	0.00	3.59	19.06
104.30	3.78	1,433.768	0.000	0.00	3.78	19.71
104.40	3.96	1,475.215	0.000	0.00	3.96	20.36
104.50	4.14	1,517.273	0.000	0.00	4.14	21.00
104.60	4.31	1,559.945	0.000	0.00	4.31	21.64
104.70	4.47	1,603.236	0.000	0.00	4.47	22.29
104.72	4.50	1,611.968	0.000	0.00	4.50	22.42

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB50 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.52 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.39 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	103.49 ft
Volume (Peak)	1,095.174 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,974.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	4,214.000 ft³
Volume (Retained)	759.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB50 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.57 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.46 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	103.76 ft
Volume (Peak)	1,213.025 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	8,553.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	7,794.000 ft³
Volume (Retained)	759.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB50 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.10 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	4.32 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	104.60 ft
Volume (Peak)	1,561.628 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	17,243.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	16,483.000 ft³
Volume (Retained)	759.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB50 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB50'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA50 Imp
<Catchment to Outflow Node>	DA50 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA50 Imp	4,641.760	12.10	1.45
Flow (From)	DA50 Perv	332.040	12.15	0.08
Flow (In)	UGB50	4,973.800	12.10	1.52

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB50 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB50'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA50 Imp
<Catchment to Outflow Node>	DA50 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA50 Imp	7,623.546	12.10	2.32
Flow (From)	DA50 Perv	929.458	12.15	0.27
Flow (In)	UGB50	8,553.004	12.10	2.57

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB50 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB50'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA50 Imp
<Catchment to Outflow Node>	DA50 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA50 Imp	14,514.584	12.10	4.33
Flow (From)	DA50 Perv	2,727.973	12.15	0.80
Flow (In)	UGB50	17,242.556	12.10	5.10

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB54
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.00	0.00	0.000	0.000	0.00	0.00	0.00
99.10	0.00	53.273	0.000	0.00	0.00	0.59
99.20	0.00	107.190	0.000	0.00	0.00	1.19
99.30	0.00	161.753	0.000	0.00	0.00	1.80
99.40	0.00	216.966	0.000	0.00	0.00	2.41
99.50	0.00	272.832	0.000	0.00	0.00	3.03
99.60	0.00	354.104	0.000	0.00	0.00	3.93
99.63	0.00	378.469	0.000	0.00	0.00	4.21
99.70	0.02	435.319	0.000	0.00	0.02	4.85
99.80	0.10	516.417	0.000	0.00	0.10	5.83
99.90	0.24	597.237	0.000	0.00	0.24	6.87
100.00	0.43	677.619	0.000	0.00	0.43	7.96
100.10	0.68	757.238	0.000	0.00	0.68	9.09
100.20	0.97	836.261	0.000	0.00	0.97	10.26
100.30	1.31	914.260	0.000	0.00	1.31	11.46
100.40	1.67	990.994	0.000	0.00	1.67	12.68
100.50	2.05	1,066.095	0.000	0.00	2.05	13.90
100.60	2.45	1,138.009	0.000	0.00	2.45	15.10
100.70	2.85	1,205.899	0.000	0.00	2.85	16.25
100.80	3.09	1,272.391	0.000	0.00	3.09	17.23
100.90	3.32	1,338.064	0.000	0.00	3.32	18.18
101.00	3.53	1,404.109	0.000	0.00	3.53	19.13
101.10	3.72	1,470.859	0.000	0.00	3.72	20.07
101.20	3.91	1,538.316	0.000	0.00	3.91	21.00
101.30	4.09	1,606.484	0.000	0.00	4.09	21.94
101.33	4.15	1,629.366	0.000	0.00	4.15	22.25

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB54 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.32 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.03 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	100.22 ft
Volume (Peak)	849.992 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,149.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3,771.000 ft³
Volume (Retained)	378.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB54 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.25 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.90 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	100.46 ft
Volume (Peak)	1,036.219 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,208.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	6,829.000 ft³
Volume (Retained)	378.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB54 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.50 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.63 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	101.05 ft
Volume (Peak)	1,439.777 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	14,634.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	14,256.000 ft³
Volume (Retained)	378.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB54 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB54'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA54 Perv
<Catchment to Outflow Node>	DA54 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA54 Perv	276.546	12.10	0.08
Flow (From)	DA54 Imp	3,872.547	12.10	1.23
Flow (In)	UGB54	4,149.093	12.10	1.32

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB54 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB54'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA54 Perv
<Catchment to Outflow Node>	DA54 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA54 Perv	774.281	12.10	0.26
Flow (From)	DA54 Imp	6,433.265	12.10	1.99
Flow (In)	UGB54	7,207.546	12.10	2.25

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB54 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB54'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA54 Perv
<Catchment to Outflow Node>	DA54 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA54 Perv	2,272.884	12.10	0.78
Flow (From)	DA54 Imp	12,361.473	12.10	3.72
Flow (In)	UGB54	14,634.358	12.10	4.50

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB55
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
106.00	0.00	0.000	0.000	0.00	0.00	0.00
106.25	0.00	1,399.733	0.000	0.00	0.00	15.55
106.50	0.00	2,811.077	0.000	0.00	0.00	31.23
106.75	0.00	5,814.153	0.000	0.00	0.00	64.60
106.79	0.00	6,292.683	0.000	0.00	0.00	69.92
107.00	0.29	8,787.585	0.000	0.00	0.29	97.93
107.25	0.94	11,705.228	0.000	0.00	0.94	130.99
107.50	1.79	14,561.879	0.000	0.00	1.79	163.59
107.75	3.57	17,330.037	0.000	0.00	3.57	196.13
108.00	6.11	20,001.073	0.000	0.00	6.11	228.35
108.25	9.19	22,531.773	0.000	0.00	9.19	259.54
108.50	12.71	24,893.676	0.000	0.00	12.71	289.30
108.75	16.62	26,960.872	0.000	0.00	16.62	316.18
109.00	20.88	28,640.299	0.000	0.00	20.88	339.10
109.25	25.47	30,188.484	0.000	0.00	25.47	360.89
109.50	30.35	31,748.856	0.000	0.00	30.35	383.12

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB55
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
106.00	0.00	0.000	0.000	0.00	0.00	0.00
106.25	0.00	1,399.733	0.000	0.00	0.00	15.55
106.50	0.00	2,811.077	0.000	0.00	0.00	31.23
106.75	0.00	5,814.153	0.000	0.00	0.00	64.60
106.79	0.00	6,292.683	0.000	0.00	0.00	69.92
107.00	0.29	8,787.585	0.000	0.00	0.29	97.93
107.25	0.94	11,705.228	0.000	0.00	0.94	130.99
107.50	1.79	14,561.879	0.000	0.00	1.79	163.59
107.75	3.57	17,330.037	0.000	0.00	3.57	196.13
108.00	6.11	20,001.073	0.000	0.00	6.11	228.35
108.25	9.19	22,531.773	0.000	0.00	9.19	259.54
108.50	12.71	24,893.676	0.000	0.00	12.71	289.30
108.75	16.62	26,960.872	0.000	0.00	16.62	316.18
109.00	20.88	28,640.299	0.000	0.00	20.88	339.10
109.25	25.47	30,188.484	0.000	0.00	25.47	360.89
109.50	30.35	31,748.856	0.000	0.00	30.35	383.12

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 100 years
Label: UGB55 Storm Event: 100yr Projected NOAA D
Scenario: 100YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
106.00	0.00	0.000	0.000	0.00	0.00	0.00
106.25	0.00	1,399.733	0.000	0.00	0.00	15.55
106.50	0.00	2,811.077	0.000	0.00	0.00	31.23
106.75	0.00	5,814.153	0.000	0.00	0.00	64.60
106.79	0.00	6,292.683	0.000	0.00	0.00	69.92
107.00	0.29	8,787.585	0.000	0.00	0.29	97.93
107.25	0.94	11,705.228	0.000	0.00	0.94	130.99
107.50	1.79	14,561.879	0.000	0.00	1.79	163.59
107.75	3.57	17,330.037	0.000	0.00	3.57	196.13
108.00	6.11	20,001.073	0.000	0.00	6.11	228.35
108.25	9.19	22,531.773	0.000	0.00	9.19	259.54
108.50	12.71	24,893.676	0.000	0.00	12.71	289.30
108.75	16.62	26,960.872	0.000	0.00	16.62	316.18
109.00	20.88	28,640.299	0.000	0.00	20.88	339.10
109.25	25.47	30,188.484	0.000	0.00	25.47	360.89
109.50	30.35	31,748.856	0.000	0.00	30.35	383.12

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB55 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.92 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.91 ft³/s	Time to Peak (Flow, Outlet)	12.35 hours

Elevation (Water Surface, Peak)	107.52 ft
Volume (Peak)	14,738.870 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	28,568.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	22,275.000 ft³
Volume (Retained)	6,293.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB55 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	14.80 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	6.21 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	108.01 ft
Volume (Peak)	20,081.646 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	48,245.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	41,953.000 ft³
Volume (Retained)	6,293.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB55 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	28.59 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	17.85 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	108.82 ft
Volume (Peak)	27,479.705 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	94,889.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	88,596.000 ft³
Volume (Retained)	6,293.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB55 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB55'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA55 Perv
<Catchment to Outflow Node>	DA55 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA55 Perv	1,612.640	12.10	0.50
Flow (From)	DA55 Imp	26,955.536	12.10	8.42
Flow (In)	UGB55	28,568.176	12.10	8.92

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB55 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB55'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA55 Perv
<Catchment to Outflow Node>	DA55 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA55 Perv	3,979.678	12.10	1.31
Flow (From)	DA55 Imp	44,265.764	12.10	13.49
Flow (In)	UGB55	48,245.442	12.10	14.80

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB55 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB55'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA55 Perv
<Catchment to Outflow Node>	DA55 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA55 Perv	10,616.506	12.10	3.48
Flow (From)	DA55 Imp	84,272.462	12.10	25.11
Flow (In)	UGB55	94,888.969	12.10	28.59

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB56
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
110.00	0.00	0.000	0.000	0.00	0.00	0.00
110.25	0.00	2,158.429	0.000	0.00	0.00	23.98
110.50	0.00	4,331.090	0.000	0.00	0.00	48.12
110.75	0.00	8,970.777	0.000	0.00	0.00	99.68
111.00	0.00	13,560.593	0.000	0.00	0.00	150.67
111.25	0.38	18,059.601	0.000	0.00	0.38	201.04
111.50	1.06	22,460.020	0.000	0.00	1.06	250.62
111.75	1.95	26,718.800	0.000	0.00	1.95	298.82
112.00	3.00	30,822.844	0.000	0.00	3.00	345.48
112.25	4.19	34,704.704	0.000	0.00	4.19	389.80
112.50	5.51	38,320.503	0.000	0.00	5.51	431.29
112.75	7.70	41,474.399	0.000	0.00	7.70	468.52
113.00	10.61	44,022.227	0.000	0.00	10.61	499.74
113.25	14.02	46,361.873	0.000	0.00	14.02	529.15
113.50	17.86	48,716.328	0.000	0.00	17.86	559.15

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB56 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.41 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.37 ft³/s	Time to Peak (Flow, Outlet)	14.30 hours

Elevation (Water Surface, Peak)	111.24 ft
Volume (Peak)	17,961.623 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	25,943.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	12,381.000 ft³
Volume (Retained)	13,561.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB56 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	14.03 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.77 ft³/s	Time to Peak (Flow, Outlet)	12.65 hours

Elevation (Water Surface, Peak)	111.70 ft
Volume (Peak)	25,879.709 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	44,459.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	30,896.000 ft³
Volume (Retained)	13,563.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB56 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	27.15 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	8.15 ft³/s	Time to Peak (Flow, Outlet)	12.25 hours

Elevation (Water Surface, Peak)	112.79 ft
Volume (Peak)	41,911.957 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	88,380.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	74,816.000 ft³
Volume (Retained)	13,564.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB56 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB56'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA56 Perv
<Catchment to Outflow Node>	DA56 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA56 Perv	774.035	12.10	0.24
Flow (From)	DA56 Imp	25,168.839	12.10	8.17
Flow (In)	UGB56	25,942.875	12.10	8.41

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB56 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB56'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA56 Perv
<Catchment to Outflow Node>	DA56 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA56 Perv	2,167.492	12.10	0.76
Flow (From)	DA56 Imp	42,291.098	12.10	13.27
Flow (In)	UGB56	44,458.589	12.10	14.03

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB56 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB56'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA56 Perv
<Catchment to Outflow Node>	DA56 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA56 Perv	6,363.341	12.10	2.24
Flow (From)	DA56 Imp	82,016.325	12.10	24.91
Flow (In)	UGB56	88,379.666	12.10	27.15

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB57 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
111.10	0.00	0.000	0.000	0.00	0.00	0.00
111.35	0.00	1,184.722	0.000	0.00	0.00	13.16
111.60	0.00	2,381.965	0.000	0.00	0.00	26.47
111.85	0.00	4,919.270	0.000	0.00	0.00	54.66
112.10	0.00	7,434.456	0.000	0.00	0.00	82.61
112.35	0.00	9,905.804	0.000	0.00	0.00	110.06
112.50	0.00	11,367.155	0.000	0.00	0.00	126.30
112.60	0.07	12,328.717	0.000	0.00	0.07	137.06
112.85	0.47	14,680.337	0.000	0.00	0.47	163.58
113.10	1.05	16,953.187	0.000	0.00	1.05	189.41
113.35	1.76	19,111.212	0.000	0.00	1.76	214.11
113.60	2.60	21,130.277	0.000	0.00	2.60	237.38
113.85	3.53	22,904.861	0.000	0.00	3.53	258.03
114.10	4.55	24,356.565	0.000	0.00	4.55	275.18
114.35	5.66	25,701.115	0.000	0.00	5.66	291.23
114.60	6.85	27,058.762	0.000	0.00	6.85	307.50

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB57 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.41 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	112.43 ft
Volume (Peak)	10,720.020 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,718.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	10,720.000 ft³
Volume (Unrouted)	2.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB57 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.60 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.23 ft³/s	Time to Peak (Flow, Outlet)	14.40 hours

Elevation (Water Surface, Peak)	112.70 ft
Volume (Peak)	13,279.775 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	18,055.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	6,686.000 ft³
Volume (Retained)	11,369.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB57 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	10.70 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.10 ft³/s	Time to Peak (Flow, Outlet)	12.35 hours

Elevation (Water Surface, Peak)	113.45 ft
Volume (Peak)	19,941.441 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	35,317.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	23,947.000 ft³
Volume (Retained)	11,369.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB57 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB57'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA57 Perv
<Catchment to Outflow Node>	DA57 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA57 Perv	221.283	12.10	0.06
Flow (From)	DA57 Imp	10,496.914	12.10	3.35
Flow (In)	UGB57	10,718.197	12.10	3.41

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB57 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB57'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA57 Perv
<Catchment to Outflow Node>	DA57 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA57 Perv	619.523	12.10	0.21
Flow (From)	DA57 Imp	17,435.141	12.10	5.39
Flow (In)	UGB57	18,054.665	12.10	5.60

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB57 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB57'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA57 Perv
<Catchment to Outflow Node>	DA57 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA57 Perv	1,818.526	12.10	0.62
Flow (From)	DA57 Imp	33,498.258	12.10	10.08
Flow (In)	UGB57	35,316.784	12.10	10.70

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB59
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	104.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	14.90	105.39	23,206.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	6.73	0.00	0.00
Pond Outflow...	14.90	0.92	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	43,481.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	26,485.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	43,481.000 ft³
Volume (Total Out ICPM)	26,485.000 ft³
Volume (Ending)	16,996.000 ft³
Elevation (Ending)	105.00 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB59
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	104.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	14.20	106.14	35,103.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	13.65	0.00	0.00
Pond Outflow...	12.75	4.03	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	86,097.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	69,071.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	86,097.000 ft³
Volume (Total Out ICPM)	69,071.000 ft³
Volume (Ending)	17,026.000 ft³
Elevation (Ending)	105.00 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB59
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	104.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.50	107.45	51,737.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	33.80	0.00	0.00
Pond Outflow...	12.35	21.20	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	192,935.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	175,885.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	192,935.000 ft³
Volume (Total Out ICPM)	175,885.000 ft³
Volume (Ending)	17,049.000 ft³
Elevation (Ending)	105.01 ft
Difference	1.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB6
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.25	97.00	2,323.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	3.69	0.00	0.00
Infiltration...	12.25	0.00	0.00	0.00
Pond Outflow...	12.15	2.12	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	12,606.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,749.000	Forward
Pond Outflow...	0.000	Reverse	11,397.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	12,606.000 ft³
Volume (Total Out ICPM)	13,145.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	-540.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	4.1 %

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB6
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	12.15	97.50	2,638.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.10	6.55	0.00	0.00
Infiltration...	12.15	0.00	0.00	0.00
Pond Outflow...	12.15	4.77	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	22,554.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,860.000	Forward
Pond Outflow...	0.000	Reverse	20,540.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	22,554.000 ft³
Volume (Total Out ICPM)	22,399.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	154.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.7 %

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: UGB6 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
94.00	1,062.7	0.00
94.25	1,099.1	0.01
94.50	1,136.1	0.01
94.75	1,173.5	0.01
95.00	1,211.4	0.01
95.25	1,249.8	0.01
95.50	1,288.7	0.01
95.75	1,328.2	0.02
96.00	1,368.1	0.02
96.25	1,408.5	0.02
96.50	1,449.4	0.02
96.75	1,490.8	0.02
97.00	1,532.8	0.02
97.25	1,575.2	0.02
97.45	1,609.5	0.02
97.50	1,618.1	0.02

Basin Routings Projected Rainfall

Subsection: Interconnected Pond Routing Summary
Label: UGB6
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.05	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	12.00	97.50	2,638.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.10	13.59	0.00	0.00
Infiltration...	12.00	0.00	0.00	0.00
Pond Outflow...	12.25	5.25	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	46,849.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	1,976.000	Forward
Pond Outflow...	0.000	Reverse	38,396.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	46,849.000 ft³
Volume (Total Out ICPM)	40,372.000 ft³
Volume (Ending)	1.000 ft³
Elevation (Ending)	94.00 ft
Difference	6,476.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	13.8 %

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB60
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
111.10	0.00	0.000	0.000	0.00	0.00	0.00
111.35	0.00	1,184.722	0.000	0.00	0.00	13.16
111.60	0.00	2,381.965	0.000	0.00	0.00	26.47
111.85	0.00	4,919.270	0.000	0.00	0.00	54.66
112.10	0.00	7,434.456	0.000	0.00	0.00	82.61
112.35	0.38	9,905.804	0.000	0.00	0.38	110.44
112.60	1.06	12,328.717	0.000	0.00	1.06	138.05
112.85	1.95	14,680.337	0.000	0.00	1.95	165.06
113.10	3.00	16,953.187	0.000	0.00	3.00	191.37
113.35	4.19	19,111.212	0.000	0.00	4.19	216.54
113.60	5.51	21,130.277	0.000	0.00	5.51	240.29
113.85	6.95	22,904.861	0.000	0.00	6.95	261.44
114.10	8.49	24,356.565	0.000	0.00	8.49	279.11
114.35	10.13	25,701.115	0.000	0.00	10.13	295.69
114.60	11.86	27,058.762	0.000	0.00	11.86	312.51

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB60 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.43 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.54 ft³/s	Time to Peak (Flow, Outlet)	12.95 hours

Elevation (Water Surface, Peak)	112.41 ft
Volume (Peak)	10,479.423 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	17,131.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	9,697.000 ft³
Volume (Retained)	7,434.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB60 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.03 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.14 ft³/s	Time to Peak (Flow, Outlet)	12.30 hours

Elevation (Water Surface, Peak)	112.90 ft
Volume (Peak)	15,105.665 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	29,179.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	21,745.000 ft³
Volume (Retained)	7,434.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB60 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	17.52 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	6.93 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	113.85 ft
Volume (Peak)	22,889.193 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	57,869.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	50,434.000 ft³
Volume (Retained)	7,434.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB60 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB60'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA60 Imp
<Catchment to Outflow Node>	DA60 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA60 Imp	16,495.151	12.10	5.26
Flow (From)	DA60 Perv	636.271	12.10	0.17
Flow (In)	UGB60	17,131.422	12.10	5.43

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB60 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB60'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA60 Imp
<Catchment to Outflow Node>	DA60 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA60 Imp	27,398.079	12.10	8.48
Flow (From)	DA60 Perv	1,781.261	12.10	0.56
Flow (In)	UGB60	29,179.340	12.10	9.03

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB60 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB60'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA60 Imp
<Catchment to Outflow Node>	DA60 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA60 Imp	52,640.120	12.10	15.84
Flow (From)	DA60 Perv	5,228.416	12.10	1.68
Flow (In)	UGB60	57,868.536	12.10	17.52

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB61
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
107.75	0.00	0.000	0.000	0.00	0.00	0.00
108.00	0.00	270.754	0.000	0.00	0.00	3.01
108.25	0.00	548.789	0.000	0.00	0.00	6.10
108.50	0.16	1,119.000	0.000	0.00	0.16	12.59
108.75	0.58	1,689.143	0.000	0.00	0.58	19.34
109.00	1.08	2,254.994	0.000	0.00	1.08	26.14
109.25	1.37	2,815.214	0.000	0.00	1.37	32.65
109.50	1.61	3,365.340	0.000	0.00	1.61	39.00
109.75	1.81	3,903.410	0.000	0.00	1.81	45.19
110.00	2.00	4,422.140	0.000	0.00	2.00	51.13
110.25	2.17	4,915.992	0.000	0.00	2.17	56.79
110.50	2.33	5,362.802	0.000	0.00	2.33	61.91
110.75	2.47	5,745.397	0.000	0.00	2.47	66.31
111.00	2.61	6,110.460	0.000	0.00	2.61	70.51
111.25	2.74	6,483.378	0.000	0.00	2.74	74.78

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB61 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.15 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.02 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	108.97 ft
Volume (Peak)	2,178.572 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	7,085.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	6,536.000 ft³
Volume (Retained)	549.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB61 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.50 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.47 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	109.35 ft
Volume (Peak)	3,035.335 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,699.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	11,150.000 ft³
Volume (Retained)	549.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB61 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.65 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.30 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	110.46 ft
Volume (Peak)	5,297.480 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	22,559.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	22,010.000 ft³
Volume (Retained)	549.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB61 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB61'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA61 Imp
<Catchment to Outflow Node>	DA61 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA61 Imp	6,918.854	12.10	2.11
Flow (From)	DA61 Perv	166.014	12.15	0.04
Flow (In)	UGB61	7,084.868	12.10	2.15

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB61 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB61'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA61 Imp
<Catchment to Outflow Node>	DA61 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA61 Imp	11,234.255	12.10	3.37
Flow (From)	DA61 Perv	464.718	12.15	0.14
Flow (In)	UGB61	11,698.973	12.10	3.50

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB61 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB61'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA61 Imp
<Catchment to Outflow Node>	DA61 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA61 Imp	21,194.767	12.10	6.26
Flow (From)	DA61 Perv	1,363.966	12.15	0.40
Flow (In)	UGB61	22,558.733	12.10	6.65

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB62 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
108.00	0.00	0.000	0.000	0.00	0.00	0.00
108.25	0.00	1,424.862	0.000	0.00	0.00	15.83
108.50	0.00	2,863.043	0.000	0.00	0.00	31.81
108.66	0.00	4,820.718	0.000	0.00	0.00	53.56
108.75	0.02	5,918.493	0.000	0.00	0.02	65.78
109.00	0.29	8,945.385	0.000	0.00	0.29	99.68
109.25	0.77	11,917.312	0.000	0.00	0.77	133.18
109.50	1.20	14,828.862	0.000	0.00	1.20	165.96
109.75	1.46	17,652.250	0.000	0.00	1.46	197.60
110.00	1.69	20,378.588	0.000	0.00	1.69	228.11
110.05	1.73	20,906.095	0.000	0.00	1.73	234.02
110.25	2.15	22,964.141	0.000	0.00	2.15	257.31
110.50	2.97	25,379.894	0.000	0.00	2.97	284.97
110.75	3.98	27,498.172	0.000	0.00	3.98	309.52
111.00	5.16	29,224.392	0.000	0.00	5.16	329.87
111.25	6.47	30,819.054	0.000	0.00	6.47	348.90
111.50	7.90	32,427.611	0.000	0.00	7.90	368.20

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary Return Event: 2 years
Label: UGB62 (IN) Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.75 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.68 ft³/s	Time to Peak (Flow, Outlet)	12.70 hours

Elevation (Water Surface, Peak)	109.20 ft
Volume (Peak)	11,385.199 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	18,961.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	13,881.000 ft³
Volume (Retained)	5,079.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB62 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	9.30 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.40 ft³/s	Time to Peak (Flow, Outlet)	12.55 hours

Elevation (Water Surface, Peak)	109.69 ft
Volume (Peak)	17,031.908 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	31,177.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	26,069.000 ft³
Volume (Retained)	5,107.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB62 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	17.55 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	3.93 ft³/s	Time to Peak (Flow, Outlet)	12.35 hours

Elevation (Water Surface, Peak)	110.74 ft
Volume (Peak)	27,407.118 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	59,793.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	54,648.000 ft³
Volume (Retained)	5,144.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB62 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB62'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA62 Imp
<Catchment to Outflow Node>	DA62 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA62 Imp	18,628.522	12.10	5.69
Flow (From)	DA62 Perv	332.014	12.15	0.08
Flow (In)	UGB62	18,960.535	12.10	5.75

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB62 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB62'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA62 Imp
<Catchment to Outflow Node>	DA62 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA62 Imp	30,247.352	12.10	9.07
Flow (From)	DA62 Perv	929.387	12.15	0.26
Flow (In)	UGB62	31,176.738	12.10	9.30

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB62 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB62'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA62 Imp
<Catchment to Outflow Node>	DA62 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA62 Imp	57,065.131	12.10	16.84
Flow (From)	DA62 Perv	2,727.776	12.15	0.79
Flow (In)	UGB62	59,792.907	12.10	17.55

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB63
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.00	0.00	0.000	0.000	0.00	0.00	0.00
104.25	0.00	695.845	0.000	0.00	0.00	7.73
104.50	0.00	1,399.883	0.000	0.00	0.00	15.55
104.75	0.00	2,886.608	0.000	0.00	0.00	32.07
105.00	0.00	4,361.358	0.000	0.00	0.00	48.46
105.25	0.31	5,811.564	0.000	0.00	0.31	64.88
105.50	0.88	7,234.485	0.000	0.00	0.88	81.26
105.75	1.62	8,616.889	0.000	0.00	1.62	97.36
106.00	2.49	9,954.353	0.000	0.00	2.49	113.09
106.25	4.14	11,225.949	0.000	0.00	4.14	128.87
106.50	6.43	12,417.535	0.000	0.00	6.43	144.40
106.75	9.17	13,467.664	0.000	0.00	9.17	158.82
107.00	12.29	14,330.534	0.000	0.00	12.29	171.52
107.25	15.74	15,132.099	0.000	0.00	15.74	183.88
107.50	19.49	15,942.433	0.000	0.00	19.49	196.63

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB63 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	4.06 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	0.93 ft³/s	Time to Peak (Flow, Outlet)	12.30 hours

Elevation (Water Surface, Peak)	105.52 ft
Volume (Peak)	7,325.750 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	13,306.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	8,945.000 ft³
Volume (Retained)	4,361.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB63 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.48 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.42 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	105.98 ft
Volume (Peak)	9,845.707 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	21,606.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	17,244.000 ft³
Volume (Retained)	4,361.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB63 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	12.03 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	7.63 ft³/s	Time to Peak (Flow, Outlet)	12.15 hours

Elevation (Water Surface, Peak)	106.61 ft
Volume (Peak)	12,897.937 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	40,762.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	36,400.000 ft³
Volume (Retained)	4,361.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB63 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB63'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA63 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA63 Imp	13,306.436	12.10	4.06
Flow (In)	UGB63	13,306.436	12.10	4.06

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB63 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB63'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA63 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA63 Imp	21,605.768	12.10	6.48
Flow (In)	UGB63	21,605.768	12.10	6.48

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB63 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB63'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA63 Imp

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	DA63 Imp	40,761.825	12.10	12.03
Flow (In)	UGB63	40,761.825	12.10	12.03

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB7 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.00	0.00	0.000	0.053	0.00	0.00	0.00
99.10	0.00	92.173	0.053	0.03	0.03	1.05
99.20	0.00	185.130	0.054	0.03	0.03	2.08
99.30	0.00	278.874	0.054	0.03	0.03	3.13
99.40	0.00	373.409	0.054	0.03	0.03	4.18
99.50	0.00	468.737	0.055	0.03	0.03	5.24
99.60	0.00	663.597	0.055	0.03	0.03	7.40
99.65	0.00	758.622	0.056	0.03	0.03	8.46
99.70	0.01	853.647	0.056	0.03	0.04	9.52
99.80	0.06	1,050.725	0.056	0.03	0.09	11.76
99.90	0.16	1,239.381	0.057	0.03	0.19	13.96
100.00	0.30	1,434.275	0.057	0.03	0.33	16.27
100.10	0.48	1,626.796	0.058	0.03	0.51	18.58
100.20	0.68	1,813.909	0.058	0.03	0.71	20.87
100.30	0.90	2,006.907	0.059	0.03	0.93	23.23
100.40	1.08	2,191.607	0.059	0.03	1.11	25.47
100.50	1.21	2,381.042	0.060	0.03	1.24	27.69
100.60	1.32	2,567.541	0.060	0.03	1.35	29.88
100.70	1.42	2,747.742	0.061	0.03	1.45	31.98
100.80	1.52	2,933.483	0.061	0.03	1.55	34.14
100.90	1.61	3,110.327	0.062	0.03	1.64	36.20
101.00	1.69	3,288.591	0.062	0.03	1.73	38.27
101.10	1.78	3,463.357	0.062	0.03	1.81	40.29
101.20	1.85	3,631.768	0.063	0.03	1.88	42.24
101.30	1.93	3,802.188	0.063	0.03	1.96	44.21
101.40	2.00	3,965.247	0.064	0.03	2.03	46.09
101.50	2.07	4,126.051	0.064	0.03	2.10	47.95
101.60	2.14	4,279.029	0.065	0.03	2.17	49.71

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 2 years
Label: UGB7 Storm Event: 2yr Projected NOAA D
Scenario: 2YR Projected

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.70	2.20	4,423.714	0.065	0.03	2.23	51.39
101.80	2.26	4,560.978	0.066	0.03	2.30	52.98
101.82	2.28	4,586.643	0.066	0.03	2.31	53.27
101.90	2.39	4,689.304	0.066	0.03	2.43	54.53
102.00	2.61	4,808.521	0.067	0.03	2.65	56.08
102.10	2.89	4,926.472	0.067	0.03	2.92	57.66
102.20	3.20	5,045.304	0.068	0.03	3.24	59.30
102.30	3.55	5,164.323	0.068	0.03	3.59	60.97
102.40	3.94	5,284.055	0.069	0.03	3.97	62.68
102.50	4.35	5,404.677	0.069	0.04	4.38	64.43
102.60	4.78	5,526.191	0.070	0.04	4.82	66.22
102.70	5.25	5,648.601	0.071	0.04	5.28	68.04
102.72	5.34	5,673.191	0.071	0.04	5.38	68.41

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB7 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.74 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	0.74 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	100.23 ft
Volume (Peak)	1,862.918 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	5,738.000 ft³
Volume (Total Infiltration)	2,660.000 ft³
Volume (Total Outlet Outflow)	3,078.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB7 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.03 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	1.39 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	100.66 ft
Volume (Peak)	2,684.534 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	10,096.000 ft³
Volume (Total Infiltration)	2,973.000 ft³
Volume (Total Outlet Outflow)	7,123.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Infiltration Calculations
Label: UGB7 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
99.00	2,294.6	0.00
99.10	2,314.1	0.03
99.20	2,333.8	0.03
99.30	2,353.5	0.03
99.40	2,373.3	0.03
99.50	2,393.1	0.03
99.60	2,413.1	0.03
99.65	2,423.1	0.03
99.70	2,433.1	0.03
99.80	2,453.3	0.03
99.90	2,473.5	0.03
100.00	2,493.7	0.03
100.10	2,514.1	0.03
100.20	2,534.5	0.03
100.30	2,555.0	0.03
100.40	2,575.6	0.03
100.50	2,596.3	0.03
100.60	2,617.1	0.03
100.70	2,637.9	0.03
100.80	2,658.8	0.03
100.90	2,679.8	0.03
101.00	2,700.9	0.03
101.10	2,722.1	0.03
101.20	2,743.3	0.03
101.30	2,764.6	0.03
101.40	2,786.0	0.03
101.50	2,807.5	0.03
101.60	2,829.1	0.03
101.70	2,850.7	0.03
101.80	2,872.4	0.03
101.82	2,876.8	0.03
101.90	2,894.2	0.03
102.00	2,916.1	0.03
102.10	2,938.1	0.03
102.20	2,960.1	0.03
102.30	2,982.2	0.03
102.40	3,004.4	0.03
102.50	3,026.7	0.04
102.60	3,049.0	0.04
102.70	3,071.5	0.04
102.72	3,076.0	0.04

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB7 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.22 ft³/s	Time to Peak (Flow, In)	12.10 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	12.20 hours
Flow (Peak Outlet)	2.58 ft³/s	Time to Peak (Flow, Outlet)	12.20 hours

Elevation (Water Surface, Peak)	101.98 ft
Volume (Peak)	4,788.241 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	20,900.000 ft³
Volume (Total Infiltration)	3,232.000 ft³
Volume (Total Outlet Outflow)	17,667.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB7 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB7'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA7 Imp
<Catchment to Outflow Node>	DA7 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA7 Imp	5,156.948	12.10	1.60
Flow (From)	DA7 Perv	580.957	12.15	0.15
Flow (In)	UGB7	5,737.906	12.10	1.74

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB7 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB7'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA7 Imp
<Catchment to Outflow Node>	DA7 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA7 Imp	8,469.968	12.10	2.56
Flow (From)	DA7 Perv	1,626.330	12.15	0.47
Flow (In)	UGB7	10,096.298	12.10	3.03

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB7 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB7'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA7 Imp
<Catchment to Outflow Node>	DA7 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA7 Imp	16,126.425	12.10	4.77
Flow (From)	DA7 Perv	4,773.507	12.10	1.45
Flow (In)	UGB7	20,899.932	12.10	6.22

Basin Routings Projected Rainfall

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB9
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.30	0.00	0.000	0.000	0.00	0.00	0.00
100.55	0.00	137.724	0.000	0.00	0.00	1.53
100.80	0.00	279.653	0.000	0.00	0.00	3.11
101.05	0.00	568.306	0.000	0.00	0.00	6.31
101.30	0.00	857.538	0.000	0.00	0.00	9.53
101.55	0.56	1,145.313	0.000	0.00	0.56	13.29
101.80	1.59	1,430.932	0.000	0.00	1.59	17.49
102.05	2.92	1,712.245	0.000	0.00	2.92	21.95
102.30	4.50	1,988.238	0.000	0.00	4.50	26.59
102.55	6.29	2,255.355	0.000	0.00	6.29	31.35
102.80	8.27	2,510.788	0.000	0.00	8.27	36.16
103.05	10.42	2,743.545	0.000	0.00	10.42	40.90
103.30	12.73	2,944.999	0.000	0.00	12.73	45.45
103.55	15.19	3,138.583	0.000	0.00	15.19	50.06
103.80	17.79	3,336.947	0.000	0.00	17.79	54.87

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB9 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.06 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	1.65 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	101.81 ft
Volume (Peak)	1,442.682 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,537.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	5,679.000 ft³
Volume (Retained)	858.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB9 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.51 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	2.99 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	102.06 ft
Volume (Peak)	1,724.296 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	11,331.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	10,474.000 ft³
Volume (Retained)	858.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Level Pool Pond Routing Summary
Label: UGB9 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	6.98 ft³/s	Time to Peak (Flow, In)	12.10 hours
Flow (Peak Outlet)	6.34 ft³/s	Time to Peak (Flow, Outlet)	12.10 hours

Elevation (Water Surface, Peak)	102.56 ft
Volume (Peak)	2,261.784 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	22,950.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	22,092.000 ft³
Volume (Retained)	858.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB9 (IN)
Scenario: 2YR Projected

Return Event: 2 years
Storm Event: 2yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB9'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA9 Imp
<Catchment to Outflow Node>	DA9 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA9 Imp	6,122.037	12.10	1.95
Flow (From)	DA9 Perv	414.998	12.10	0.11
Flow (In)	UGB9	6,537.035	12.10	2.06

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB9 (IN)
Scenario: 10YR Projected

Return Event: 10 years
Storm Event: 10yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB9'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA9 Imp
<Catchment to Outflow Node>	DA9 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA9 Imp	10,169.437	12.10	3.15
Flow (From)	DA9 Perv	1,161.770	12.10	0.37
Flow (In)	UGB9	11,331.207	12.10	3.51

Basin Routings Projected Rainfall

Subsection: Pond Inflow Summary
Label: UGB9 (IN)
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr Projected NOAA D

Summary for Hydrograph Addition at 'UGB9'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA9 Imp
<Catchment to Outflow Node>	DA9 Perv

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA9 Imp	19,539.623	12.10	5.88
Flow (From)	DA9 Perv	3,409.999	12.10	1.10
Flow (In)	UGB9	22,949.622	12.10	6.98

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
0.000	0.00	0.00
0.050	0.00	0.00
0.100	0.00	0.00
0.150	0.00	0.00
0.200	0.00	0.00
0.250	0.00	0.00
0.300	0.00	0.00
0.350	0.00	0.00
0.400	0.00	0.00
0.450	0.00	0.00
0.500	0.00	0.00
0.550	0.00	0.00
0.600	0.00	0.00
0.650	0.00	0.00
0.700	0.00	0.00
0.750	0.00	0.00
0.800	0.00	0.00
0.850	0.00	0.00
0.900	0.00	0.00
0.950	0.00	0.00
1.000	0.00	0.00
1.050	0.00	0.00
1.100	0.00	0.00
1.150	0.00	0.00
1.200	0.00	0.00
1.250	0.00	0.00
1.300	0.00	0.00
1.350	0.00	0.00
1.400	0.00	0.00
1.450	0.00	0.00
1.500	0.00	0.00
1.550	0.00	0.00
1.600	0.00	0.00
1.650	0.00	0.00
1.700	0.00	0.00
1.750	0.00	0.00
1.800	0.00	0.00
1.850	0.00	0.00
1.900	0.00	0.00
1.950	0.00	0.00
2.000	0.00	0.00
2.050	0.00	0.00
2.100	0.00	0.00
2.150	0.00	0.00
2.200	0.00	0.00
2.250	0.00	0.00
2.300	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
2.350	0.00	0.00
2.400	0.00	0.00
2.450	0.00	0.00
2.500	0.00	0.00
2.550	0.00	0.00
2.600	0.00	0.00
2.650	0.00	0.00
2.700	0.00	0.00
2.750	0.00	0.00
2.800	0.00	0.00
2.850	0.00	0.00
2.900	0.00	0.00
2.950	0.00	0.00
3.000	0.00	0.00
3.050	0.00	0.00
3.100	0.00	0.00
3.150	0.00	0.00
3.200	0.00	0.00
3.250	0.00	0.00
3.300	0.00	0.00
3.350	0.00	0.00
3.400	0.00	0.00
3.450	0.00	0.00
3.500	0.00	0.00
3.550	0.00	0.00
3.600	0.00	0.00
3.650	0.00	0.00
3.700	0.00	0.00
3.750	0.00	0.00
3.800	0.00	0.00
3.850	0.00	0.00
3.900	0.00	0.00
3.950	0.00	0.00
4.000	0.00	0.00
4.050	0.00	0.00
4.100	0.00	0.00
4.150	0.00	0.00
4.200	0.00	0.00
4.250	0.00	0.00
4.300	0.00	0.00
4.350	0.00	0.00
4.400	0.00	0.00
4.450	0.00	0.00
4.500	0.00	0.00
4.550	0.00	0.00
4.600	0.00	0.00
4.650	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
4.700	0.00	0.00
4.750	0.00	0.00
4.800	0.00	0.00
4.850	0.00	0.00
4.900	0.00	0.00
4.950	0.00	0.00
5.000	0.00	0.00
5.050	0.00	0.00
5.100	0.00	0.00
5.150	0.00	0.00
5.200	0.00	0.00
5.250	0.00	0.00
5.300	0.00	0.00
5.350	0.00	0.00
5.400	0.00	0.00
5.450	0.00	0.00
5.500	0.00	0.00
5.550	0.00	0.00
5.600	0.00	0.00
5.650	0.00	0.00
5.700	0.00	0.00
5.750	0.00	0.00
5.800	0.00	0.00
5.850	0.00	0.00
5.900	0.00	0.00
5.950	0.00	0.00
6.000	0.00	0.00
6.050	0.00	0.00
6.100	0.00	0.00
6.150	0.00	0.00
6.200	0.00	0.00
6.250	0.00	0.00
6.300	0.00	0.00
6.350	0.00	0.00
6.400	0.00	0.00
6.450	0.00	0.00
6.500	0.00	0.00
6.550	0.00	0.00
6.600	0.00	0.00
6.650	0.00	0.00
6.700	0.00	0.00
6.750	0.00	0.00
6.800	0.00	0.00
6.850	0.00	0.00
6.900	0.00	0.00
6.950	0.00	0.00
7.000	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
7.050	0.00	0.00
7.100	0.00	0.00
7.150	0.00	0.00
7.200	0.00	0.00
7.250	0.00	0.00
7.300	0.00	0.00
7.350	0.00	0.00
7.400	0.00	0.00
7.450	0.00	0.00
7.500	0.00	0.00
7.550	0.00	0.00
7.600	0.00	0.00
7.650	0.00	0.00
7.700	0.00	0.00
7.750	0.00	0.00
7.800	0.00	0.00
7.850	0.00	0.00
7.900	0.00	0.00
7.950	0.00	0.00
8.000	0.00	0.00
8.050	0.00	0.00
8.100	0.00	0.00
8.150	0.00	0.00
8.200	0.00	0.00
8.250	0.00	0.00
8.300	0.00	0.00
8.350	0.00	0.00
8.400	0.00	0.00
8.450	0.00	0.00
8.500	0.00	0.00
8.550	0.00	0.00
8.600	0.00	0.00
8.650	0.00	0.00
8.700	0.00	0.00
8.750	0.00	0.00
8.800	0.00	0.00
8.850	0.00	0.00
8.900	0.00	0.00
8.950	0.00	0.00
9.000	0.00	0.00
9.050	0.00	0.00
9.100	0.00	0.00
9.150	0.00	0.00
9.200	0.00	0.00
9.250	0.00	0.00
9.300	0.00	0.00
9.350	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
9.400	0.00	0.00
9.450	0.00	0.00
9.500	0.00	0.00
9.550	0.00	0.00
9.600	0.00	0.00
9.650	0.00	0.00
9.700	0.00	0.00
9.750	0.00	0.00
9.800	0.00	0.00
9.850	0.00	0.00
9.900	0.00	0.00
9.950	0.00	0.00
10.000	0.00	0.00
10.050	0.00	0.00
10.100	0.00	0.00
10.150	0.00	0.00
10.200	0.00	0.00
10.250	0.00	0.00
10.300	0.00	0.00
10.350	0.00	0.00
10.400	0.00	0.00
10.450	0.00	0.00
10.500	0.00	0.00
10.550	0.00	0.00
10.600	0.00	0.00
10.650	0.00	0.00
10.700	0.00	0.00
10.750	0.00	0.00
10.800	0.00	0.00
10.850	0.00	0.00
10.900	0.00	0.00
10.950	0.00	0.00
11.000	0.00	0.00
11.050	0.00	0.00
11.100	0.00	0.00
11.150	0.00	0.00
11.200	0.00	0.00
11.250	0.00	0.00
11.300	0.00	0.00
11.350	0.00	0.00
11.400	0.00	0.00
11.450	0.00	0.00
11.500	0.02	0.00
11.550	0.04	0.01
11.600	0.07	0.03
11.650	0.11	0.06
11.700	0.14	0.09

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
11.750	0.21	0.15
11.800	0.29	0.22
11.850	0.41	0.33
11.900	0.58	0.48
11.950	0.91	0.78
12.000	1.42	1.25
12.050	2.24	2.02
12.100	3.42	3.14
12.150	3.24	3.00
12.200	2.14	2.00
12.250	1.70	1.59
12.300	1.42	1.33
12.350	1.24	1.17
12.400	1.07	1.01
12.450	1.02	0.96
12.500	1.00	0.94
12.550	0.92	0.87
12.600	0.80	0.76
12.650	0.76	0.72
12.700	0.73	0.69
12.750	0.70	0.67
12.800	0.68	0.65
12.850	0.66	0.62
12.900	0.63	0.60
12.950	0.61	0.58
13.000	0.58	0.55
13.050	0.56	0.53
13.100	0.53	0.50
13.150	0.51	0.48
13.200	0.49	0.47
13.250	0.48	0.45
13.300	0.46	0.44
13.350	0.45	0.42
13.400	0.43	0.41
13.450	0.41	0.39
13.500	0.40	0.38
13.550	0.38	0.36
13.600	0.36	0.34
13.650	0.35	0.34
13.700	0.35	0.33
13.750	0.34	0.33
13.800	0.34	0.32
13.850	0.34	0.32
13.900	0.33	0.32
13.950	0.33	0.31
14.000	0.32	0.31
14.050	0.32	0.31

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
14.100	0.31	0.30
14.150	0.31	0.30
14.200	0.31	0.29
14.250	0.30	0.29
14.300	0.30	0.28
14.350	0.29	0.28
14.400	0.29	0.28
14.450	0.28	0.27
14.500	0.28	0.27
14.550	0.27	0.26
14.600	0.27	0.26
14.650	0.26	0.25
14.700	0.26	0.25
14.750	0.25	0.24
14.800	0.25	0.24
14.850	0.24	0.23
14.900	0.24	0.23
14.950	0.23	0.22
15.000	0.23	0.22
15.050	0.22	0.21
15.100	0.22	0.21
15.150	0.22	0.21
15.200	0.22	0.21
15.250	0.22	0.21
15.300	0.21	0.20
15.350	0.21	0.20
15.400	0.21	0.20
15.450	0.21	0.20
15.500	0.21	0.20
15.550	0.21	0.20
15.600	0.20	0.20
15.650	0.20	0.20
15.700	0.20	0.19
15.750	0.20	0.19
15.800	0.20	0.19
15.850	0.20	0.19
15.900	0.20	0.19
15.950	0.20	0.19
16.000	0.19	0.19
16.050	0.19	0.19
16.100	0.19	0.18
16.150	0.19	0.18
16.200	0.19	0.18
16.250	0.19	0.18
16.300	0.19	0.18
16.350	0.19	0.18
16.400	0.18	0.18

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
16.450	0.18	0.18
16.500	0.18	0.17
16.550	0.18	0.17
16.600	0.18	0.17
16.650	0.18	0.17
16.700	0.18	0.17
16.750	0.17	0.17
16.800	0.17	0.17
16.850	0.17	0.16
16.900	0.17	0.16
16.950	0.17	0.16
17.000	0.17	0.16
17.050	0.17	0.16
17.100	0.16	0.16
17.150	0.16	0.16
17.200	0.16	0.15
17.250	0.16	0.15
17.300	0.16	0.15
17.350	0.16	0.15
17.400	0.15	0.15
17.450	0.15	0.15
17.500	0.15	0.15
17.550	0.15	0.14
17.600	0.15	0.14
17.650	0.15	0.14
17.700	0.15	0.14
17.750	0.14	0.14
17.800	0.14	0.14
17.850	0.14	0.14
17.900	0.14	0.13
17.950	0.14	0.13
18.000	0.14	0.13
18.050	0.14	0.13
18.100	0.13	0.13
18.150	0.13	0.13
18.200	0.13	0.13
18.250	0.13	0.13
18.300	0.13	0.13
18.350	0.13	0.13
18.400	0.13	0.13
18.450	0.13	0.13
18.500	0.13	0.13
18.550	0.13	0.12
18.600	0.13	0.13
18.650	0.13	0.12
18.700	0.13	0.12
18.750	0.13	0.12

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
18.800	0.13	0.12
18.850	0.13	0.12
18.900	0.13	0.12
18.950	0.13	0.12
19.000	0.13	0.12
19.050	0.13	0.12
19.100	0.13	0.12
19.150	0.13	0.12
19.200	0.13	0.12
19.250	0.13	0.12
19.300	0.13	0.12
19.350	0.12	0.12
19.400	0.12	0.12
19.450	0.12	0.12
19.500	0.12	0.12
19.550	0.12	0.12
19.600	0.12	0.12
19.650	0.12	0.12
19.700	0.12	0.12
19.750	0.12	0.12
19.800	0.12	0.12
19.850	0.12	0.12
19.900	0.12	0.12
19.950	0.12	0.12
20.000	0.12	0.12
20.050	0.12	0.12
20.100	0.12	0.12
20.150	0.12	0.12
20.200	0.12	0.11
20.250	0.12	0.11
20.300	0.12	0.11
20.350	0.12	0.11
20.400	0.12	0.11
20.450	0.12	0.11
20.500	0.12	0.11
20.550	0.12	0.11
20.600	0.12	0.11
20.650	0.12	0.11
20.700	0.12	0.11
20.750	0.11	0.11
20.800	0.11	0.11
20.850	0.11	0.11
20.900	0.11	0.11
20.950	0.11	0.11
21.000	0.11	0.11
21.050	0.11	0.11
21.100	0.11	0.11

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
21.150	0.11	0.11
21.200	0.11	0.11
21.250	0.11	0.11
21.300	0.11	0.11
21.350	0.11	0.11
21.400	0.11	0.11
21.450	0.11	0.11
21.500	0.11	0.11
21.550	0.11	0.10
21.600	0.11	0.10
21.650	0.11	0.10
21.700	0.11	0.10
21.750	0.11	0.10
21.800	0.11	0.10
21.850	0.11	0.10
21.900	0.11	0.10
21.950	0.11	0.10
22.000	0.11	0.10
22.050	0.11	0.10
22.100	0.10	0.10
22.150	0.10	0.10
22.200	0.10	0.10
22.250	0.10	0.10
22.300	0.10	0.10
22.350	0.10	0.10
22.400	0.10	0.10
22.450	0.10	0.10
22.500	0.10	0.10
22.550	0.10	0.10
22.600	0.10	0.10
22.650	0.10	0.10
22.700	0.10	0.10
22.750	0.10	0.10
22.800	0.10	0.10
22.850	0.10	0.10
22.900	0.10	0.10
22.950	0.10	0.09
23.000	0.10	0.09
23.050	0.10	0.09
23.100	0.10	0.09
23.150	0.10	0.09
23.200	0.10	0.09
23.250	0.10	0.09
23.300	0.09	0.09
23.350	0.09	0.09
23.400	0.09	0.09
23.450	0.09	0.09

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
23.500	0.09	0.09
23.550	0.09	0.09
23.600	0.09	0.09
23.650	0.09	0.09
23.700	0.09	0.09
23.750	0.09	0.09
23.800	0.09	0.09
23.850	0.09	0.09
23.900	0.09	0.09
23.950	0.09	0.09
24.000	0.09	0.09
24.050	0.06	0.06
24.100	0.02	0.02
24.150	0.00	0.00
24.200	0.00	0.00
24.250	0.00	0.00
24.300	0.00	0.00
24.350	0.00	0.00
24.400	0.00	0.00
24.450	0.00	0.00
24.500	0.00	0.00
24.550	0.00	0.00
24.600	0.00	0.00
24.650	0.00	0.00
24.700	0.00	0.00
24.750	0.00	0.00
24.800	0.00	0.00
24.850	0.00	0.00
24.900	0.00	0.00
24.950	0.00	0.00
25.000	0.00	0.00
25.050	0.00	0.00
25.100	0.00	0.00
25.150	0.00	0.00
25.200	0.00	0.00
25.250	0.00	0.00
25.300	0.00	0.00
25.350	0.00	0.00
25.400	0.00	0.00
25.450	0.00	0.00
25.500	0.00	0.00
25.550	0.00	0.00
25.600	0.00	0.00
25.650	0.00	0.00
25.700	0.00	0.00
25.750	0.00	0.00
25.800	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
25.850	0.00	0.00
25.900	0.00	0.00
25.950	0.00	0.00
26.000	0.00	0.00
26.050	0.00	0.00
26.100	0.00	0.00
26.150	0.00	0.00
26.200	0.00	0.00
26.250	0.00	0.00
26.300	0.00	0.00
26.350	0.00	0.00
26.400	0.00	0.00
26.450	0.00	0.00
26.500	0.00	0.00
26.550	0.00	0.00
26.600	0.00	0.00
26.650	0.00	0.00
26.700	0.00	0.00
26.750	0.00	0.00
26.800	0.00	0.00
26.850	0.00	0.00
26.900	0.00	0.00
26.950	0.00	0.00
27.000	0.00	0.00
27.050	0.00	0.00
27.100	0.00	0.00
27.150	0.00	0.00
27.200	0.00	0.00
27.250	0.00	0.00
27.300	0.00	0.00
27.350	0.00	0.00
27.400	0.00	0.00
27.450	0.00	0.00
27.500	0.00	0.00
27.550	0.00	0.00
27.600	0.00	0.00
27.650	0.00	0.00
27.700	0.00	0.00
27.750	0.00	0.00
27.800	0.00	0.00
27.850	0.00	0.00
27.900	0.00	0.00
27.950	0.00	0.00
28.000	0.00	0.00
28.050	0.00	0.00
28.100	0.00	0.00
28.150	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
28.200	0.00	0.00
28.250	0.00	0.00
28.300	0.00	0.00
28.350	0.00	0.00
28.400	0.00	0.00
28.450	0.00	0.00
28.500	0.00	0.00
28.550	0.00	0.00
28.600	0.00	0.00
28.650	0.00	0.00
28.700	0.00	0.00
28.750	0.00	0.00
28.800	0.00	0.00
28.850	0.00	0.00
28.900	0.00	0.00
28.950	0.00	0.00
29.000	0.00	0.00
29.050	0.00	0.00
29.100	0.00	0.00
29.150	0.00	0.00
29.200	0.00	0.00
29.250	0.00	0.00
29.300	0.00	0.00
29.350	0.00	0.00
29.400	0.00	0.00
29.450	0.00	0.00
29.500	0.00	0.00
29.550	0.00	0.00
29.600	0.00	0.00
29.650	0.00	0.00
29.700	0.00	0.00
29.750	0.00	0.00
29.800	0.00	0.00
29.850	0.00	0.00
29.900	0.00	0.00
29.950	0.00	0.00
30.000	0.00	0.00
30.050	0.00	0.00
30.100	0.00	0.00
30.150	0.00	0.00
30.200	0.00	0.00
30.250	0.00	0.00
30.300	0.00	0.00
30.350	0.00	0.00
30.400	0.00	0.00
30.450	0.00	0.00
30.500	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
30.550	0.00	0.00
30.600	0.00	0.00
30.650	0.00	0.00
30.700	0.00	0.00
30.750	0.00	0.00
30.800	0.00	0.00
30.850	0.00	0.00
30.900	0.00	0.00
30.950	0.00	0.00
31.000	0.00	0.00
31.050	0.00	0.00
31.100	0.00	0.00
31.150	0.00	0.00
31.200	0.00	0.00
31.250	0.00	0.00
31.300	0.00	0.00
31.350	0.00	0.00
31.400	0.00	0.00
31.450	0.00	0.00
31.500	0.00	0.00
31.550	0.00	0.00
31.600	0.00	0.00
31.650	0.00	0.00
31.700	0.00	0.00
31.750	0.00	0.00
31.800	0.00	0.00
31.850	0.00	0.00
31.900	0.00	0.00
31.950	0.00	0.00
32.000	0.00	0.00
32.050	0.00	0.00
32.100	0.00	0.00
32.150	0.00	0.00
32.200	0.00	0.00
32.250	0.00	0.00
32.300	0.00	0.00
32.350	0.00	0.00
32.400	0.00	0.00
32.450	0.00	0.00
32.500	0.00	0.00
32.550	0.00	0.00
32.600	0.00	0.00
32.650	0.00	0.00
32.700	0.00	0.00
32.750	0.00	0.00
32.800	0.00	0.00
32.850	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
32.900	0.00	0.00
32.950	0.00	0.00
33.000	0.00	0.00
33.050	0.00	0.00
33.100	0.00	0.00
33.150	0.00	0.00
33.200	0.00	0.00
33.250	0.00	0.00
33.300	0.00	0.00
33.350	0.00	0.00
33.400	0.00	0.00
33.450	0.00	0.00
33.500	0.00	0.00
33.550	0.00	0.00
33.600	0.00	0.00
33.650	0.00	0.00
33.700	0.00	0.00
33.750	0.00	0.00
33.800	0.00	0.00
33.850	0.00	0.00
33.900	0.00	0.00
33.950	0.00	0.00
34.000	0.00	0.00
34.050	0.00	0.00
34.100	0.00	0.00
34.150	0.00	0.00
34.200	0.00	0.00
34.250	0.00	0.00
34.300	0.00	0.00
34.350	0.00	0.00
34.400	0.00	0.00
34.450	0.00	0.00
34.500	0.00	0.00
34.550	0.00	0.00
34.600	0.00	0.00
34.650	0.00	0.00
34.700	0.00	0.00
34.750	0.00	0.00
34.800	0.00	0.00
34.850	0.00	0.00
34.900	0.00	0.00
34.950	0.00	0.00
35.000	0.00	0.00
35.050	0.00	0.00
35.100	0.00	0.00
35.150	0.00	0.00
35.200	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
35.250	0.00	0.00
35.300	0.00	0.00
35.350	0.00	0.00
35.400	0.00	0.00
35.450	0.00	0.00
35.500	0.00	0.00
35.550	0.00	0.00
35.600	0.00	0.00
35.650	0.00	0.00
35.700	0.00	0.00
35.750	0.00	0.00
35.800	0.00	0.00
35.850	0.00	0.00
35.900	0.00	0.00
35.950	0.00	0.00
36.000	0.00	0.00
36.050	0.00	0.00
36.100	0.00	0.00
36.150	0.00	0.00
36.200	0.00	0.00
36.250	0.00	0.00
36.300	0.00	0.00
36.350	0.00	0.00
36.400	0.00	0.00
36.450	0.00	0.00
36.500	0.00	0.00
36.550	0.00	0.00
36.600	0.00	0.00
36.650	0.00	0.00
36.700	0.00	0.00
36.750	0.00	0.00
36.800	0.00	0.00
36.850	0.00	0.00
36.900	0.00	0.00
36.950	0.00	0.00
37.000	0.00	0.00
37.050	0.00	0.00
37.100	0.00	0.00
37.150	0.00	0.00
37.200	0.00	0.00
37.250	0.00	0.00
37.300	0.00	0.00
37.350	0.00	0.00
37.400	0.00	0.00
37.450	0.00	0.00
37.500	0.00	0.00
37.550	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
37.600	0.00	0.00
37.650	0.00	0.00
37.700	0.00	0.00
37.750	0.00	0.00
37.800	0.00	0.00
37.850	0.00	0.00
37.900	0.00	0.00
37.950	0.00	0.00
38.000	0.00	0.00
38.050	0.00	0.00
38.100	0.00	0.00
38.150	0.00	0.00
38.200	0.00	0.00
38.250	0.00	0.00
38.300	0.00	0.00
38.350	0.00	0.00
38.400	0.00	0.00
38.450	0.00	0.00
38.500	0.00	0.00
38.550	0.00	0.00
38.600	0.00	0.00
38.650	0.00	0.00
38.700	0.00	0.00
38.750	0.00	0.00
38.800	0.00	0.00
38.850	0.00	0.00
38.900	0.00	0.00
38.950	0.00	0.00
39.000	0.00	0.00
39.050	0.00	0.00
39.100	0.00	0.00
39.150	0.00	0.00
39.200	0.00	0.00
39.250	0.00	0.00
39.300	0.00	0.00
39.350	0.00	0.00
39.400	0.00	0.00
39.450	0.00	0.00
39.500	0.00	0.00
39.550	0.00	0.00
39.600	0.00	0.00
39.650	0.00	0.00
39.700	0.00	0.00
39.750	0.00	0.00
39.800	0.00	0.00
39.850	0.00	0.00
39.900	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
39.950	0.00	0.00
40.000	0.00	0.00
40.050	0.00	0.00
40.100	0.00	0.00
40.150	0.00	0.00
40.200	0.00	0.00
40.250	0.00	0.00
40.300	0.00	0.00
40.350	0.00	0.00
40.400	0.00	0.00
40.450	0.00	0.00
40.500	0.00	0.00
40.550	0.00	0.00
40.600	0.00	0.00
40.650	0.00	0.00
40.700	0.00	0.00
40.750	0.00	0.00
40.800	0.00	0.00
40.850	0.00	0.00
40.900	0.00	0.00
40.950	0.00	0.00
41.000	0.00	0.00
41.050	0.00	0.00
41.100	0.00	0.00
41.150	0.00	0.00
41.200	0.00	0.00
41.250	0.00	0.00
41.300	0.00	0.00
41.350	0.00	0.00
41.400	0.00	0.00
41.450	0.00	0.00
41.500	0.00	0.00
41.550	0.00	0.00
41.600	0.00	0.00
41.650	0.00	0.00
41.700	0.00	0.00
41.750	0.00	0.00
41.800	0.00	0.00
41.850	0.00	0.00
41.900	0.00	0.00
41.950	0.00	0.00
42.000	0.00	0.00
42.050	0.00	0.00
42.100	0.00	0.00
42.150	0.00	0.00
42.200	0.00	0.00
42.250	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
42.300	0.00	0.00
42.350	0.00	0.00
42.400	0.00	0.00
42.450	0.00	0.00
42.500	0.00	0.00
42.550	0.00	0.00
42.600	0.00	0.00
42.650	0.00	0.00
42.700	0.00	0.00
42.750	0.00	0.00
42.800	0.00	0.00
42.850	0.00	0.00
42.900	0.00	0.00
42.950	0.00	0.00
43.000	0.00	0.00
43.050	0.00	0.00
43.100	0.00	0.00
43.150	0.00	0.00
43.200	0.00	0.00
43.250	0.00	0.00
43.300	0.00	0.00
43.350	0.00	0.00
43.400	0.00	0.00
43.450	0.00	0.00
43.500	0.00	0.00
43.550	0.00	0.00
43.600	0.00	0.00
43.650	0.00	0.00
43.700	0.00	0.00
43.750	0.00	0.00
43.800	0.00	0.00
43.850	0.00	0.00
43.900	0.00	0.00
43.950	0.00	0.00
44.000	0.00	0.00
44.050	0.00	0.00
44.100	0.00	0.00
44.150	0.00	0.00
44.200	0.00	0.00
44.250	0.00	0.00
44.300	0.00	0.00
44.350	0.00	0.00
44.400	0.00	0.00
44.450	0.00	0.00
44.500	0.00	0.00
44.550	0.00	0.00
44.600	0.00	0.00

Graph Data Table - 2yr Projected Overlay

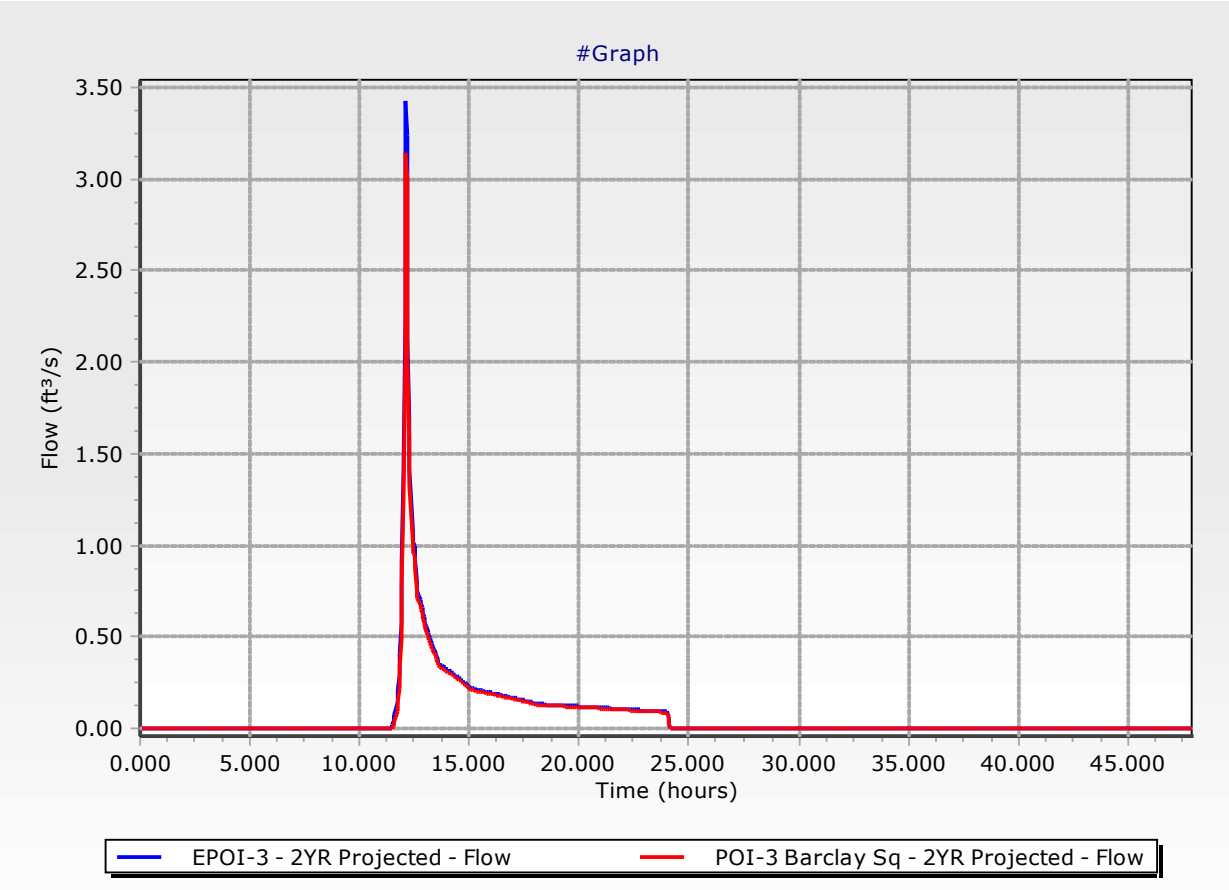
Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
44.650	0.00	0.00
44.700	0.00	0.00
44.750	0.00	0.00
44.800	0.00	0.00
44.850	0.00	0.00
44.900	0.00	0.00
44.950	0.00	0.00
45.000	0.00	0.00
45.050	0.00	0.00
45.100	0.00	0.00
45.150	0.00	0.00
45.200	0.00	0.00
45.250	0.00	0.00
45.300	0.00	0.00
45.350	0.00	0.00
45.400	0.00	0.00
45.450	0.00	0.00
45.500	0.00	0.00
45.550	0.00	0.00
45.600	0.00	0.00
45.650	0.00	0.00
45.700	0.00	0.00
45.750	0.00	0.00
45.800	0.00	0.00
45.850	0.00	0.00
45.900	0.00	0.00
45.950	0.00	0.00
46.000	0.00	0.00
46.050	0.00	0.00
46.100	0.00	0.00
46.150	0.00	0.00
46.200	0.00	0.00
46.250	0.00	0.00
46.300	0.00	0.00
46.350	0.00	0.00
46.400	0.00	0.00
46.450	0.00	0.00
46.500	0.00	0.00
46.550	0.00	0.00
46.600	0.00	0.00
46.650	0.00	0.00
46.700	0.00	0.00
46.750	0.00	0.00
46.800	0.00	0.00
46.850	0.00	0.00
46.900	0.00	0.00
46.950	0.00	0.00

Graph Data Table - 2yr Projected Overlay

Time (hours)	EPOI-3 - 2YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 2YR Projected - Flow (ft^3/s)
47.000	0.00	0.00
47.050	0.00	0.00
47.100	0.00	0.00
47.150	0.00	0.00
47.200	0.00	0.00
47.250	0.00	0.00
47.300	0.00	0.00
47.350	0.00	0.00
47.400	0.00	0.00
47.450	0.00	0.00
47.500	0.00	0.00
47.550	0.00	0.00
47.600	0.00	0.00
47.650	0.00	0.00
47.700	0.00	0.00
47.750	0.00	0.00
47.800	0.00	0.00
47.850	0.00	0.00
47.900	0.00	0.00
47.950	0.00	0.00
48.000	0.00	0.00

Existing and Proposed

Graph Data Table - 2yr Projected Overlay



Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
0.000	0.00	0.00
0.050	0.00	0.00
0.100	0.00	0.00
0.150	0.00	0.00
0.200	0.00	0.00
0.250	0.00	0.00
0.300	0.00	0.00
0.350	0.00	0.00
0.400	0.00	0.00
0.450	0.00	0.00
0.500	0.00	0.00
0.550	0.00	0.00
0.600	0.00	0.00
0.650	0.00	0.00
0.700	0.00	0.00
0.750	0.00	0.00
0.800	0.00	0.00
0.850	0.00	0.00
0.900	0.00	0.00
0.950	0.00	0.00
1.000	0.00	0.00
1.050	0.00	0.00
1.100	0.00	0.00
1.150	0.00	0.00
1.200	0.00	0.00
1.250	0.00	0.00
1.300	0.00	0.00
1.350	0.00	0.00
1.400	0.00	0.00
1.450	0.00	0.00
1.500	0.00	0.00
1.550	0.00	0.00
1.600	0.00	0.00
1.650	0.00	0.00
1.700	0.00	0.00
1.750	0.00	0.00
1.800	0.00	0.00
1.850	0.00	0.00
1.900	0.00	0.00
1.950	0.00	0.00
2.000	0.00	0.00
2.050	0.00	0.00
2.100	0.00	0.00
2.150	0.00	0.00
2.200	0.00	0.00
2.250	0.00	0.00
2.300	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
2.350	0.00	0.00
2.400	0.00	0.00
2.450	0.00	0.00
2.500	0.00	0.00
2.550	0.00	0.00
2.600	0.00	0.00
2.650	0.00	0.00
2.700	0.00	0.00
2.750	0.00	0.00
2.800	0.00	0.00
2.850	0.00	0.00
2.900	0.00	0.00
2.950	0.00	0.00
3.000	0.00	0.00
3.050	0.00	0.00
3.100	0.00	0.00
3.150	0.00	0.00
3.200	0.00	0.00
3.250	0.00	0.00
3.300	0.00	0.00
3.350	0.00	0.00
3.400	0.00	0.00
3.450	0.00	0.00
3.500	0.00	0.00
3.550	0.00	0.00
3.600	0.00	0.00
3.650	0.00	0.00
3.700	0.00	0.00
3.750	0.00	0.00
3.800	0.00	0.00
3.850	0.00	0.00
3.900	0.00	0.00
3.950	0.00	0.00
4.000	0.00	0.00
4.050	0.00	0.00
4.100	0.00	0.00
4.150	0.00	0.00
4.200	0.00	0.00
4.250	0.00	0.00
4.300	0.00	0.00
4.350	0.00	0.00
4.400	0.00	0.00
4.450	0.00	0.00
4.500	0.00	0.00
4.550	0.00	0.00
4.600	0.00	0.00
4.650	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
4.700	0.00	0.00
4.750	0.00	0.00
4.800	0.00	0.00
4.850	0.00	0.00
4.900	0.00	0.00
4.950	0.00	0.00
5.000	0.00	0.00
5.050	0.00	0.00
5.100	0.00	0.00
5.150	0.00	0.00
5.200	0.00	0.00
5.250	0.00	0.00
5.300	0.00	0.00
5.350	0.00	0.00
5.400	0.00	0.00
5.450	0.00	0.00
5.500	0.00	0.00
5.550	0.00	0.00
5.600	0.00	0.00
5.650	0.00	0.00
5.700	0.00	0.00
5.750	0.00	0.00
5.800	0.00	0.00
5.850	0.00	0.00
5.900	0.00	0.00
5.950	0.00	0.00
6.000	0.00	0.00
6.050	0.00	0.00
6.100	0.00	0.00
6.150	0.00	0.00
6.200	0.00	0.00
6.250	0.00	0.00
6.300	0.00	0.00
6.350	0.00	0.00
6.400	0.00	0.00
6.450	0.00	0.00
6.500	0.00	0.00
6.550	0.00	0.00
6.600	0.00	0.00
6.650	0.00	0.00
6.700	0.00	0.00
6.750	0.00	0.00
6.800	0.00	0.00
6.850	0.00	0.00
6.900	0.00	0.00
6.950	0.00	0.00
7.000	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
7.050	0.00	0.00
7.100	0.00	0.00
7.150	0.00	0.00
7.200	0.00	0.00
7.250	0.00	0.00
7.300	0.00	0.00
7.350	0.00	0.00
7.400	0.00	0.00
7.450	0.00	0.00
7.500	0.00	0.00
7.550	0.00	0.00
7.600	0.00	0.00
7.650	0.00	0.00
7.700	0.00	0.00
7.750	0.00	0.00
7.800	0.00	0.00
7.850	0.00	0.00
7.900	0.00	0.00
7.950	0.00	0.00
8.000	0.00	0.00
8.050	0.00	0.00
8.100	0.00	0.00
8.150	0.00	0.00
8.200	0.00	0.00
8.250	0.00	0.00
8.300	0.00	0.00
8.350	0.00	0.00
8.400	0.00	0.00
8.450	0.00	0.00
8.500	0.00	0.00
8.550	0.00	0.00
8.600	0.00	0.00
8.650	0.00	0.00
8.700	0.00	0.00
8.750	0.00	0.00
8.800	0.00	0.00
8.850	0.00	0.00
8.900	0.00	0.00
8.950	0.00	0.00
9.000	0.00	0.00
9.050	0.00	0.00
9.100	0.00	0.00
9.150	0.00	0.00
9.200	0.00	0.00
9.250	0.00	0.00
9.300	0.00	0.00
9.350	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
9.400	0.00	0.00
9.450	0.00	0.00
9.500	0.00	0.00
9.550	0.00	0.00
9.600	0.00	0.00
9.650	0.00	0.00
9.700	0.00	0.00
9.750	0.00	0.00
9.800	0.00	0.00
9.850	0.00	0.00
9.900	0.00	0.00
9.950	0.01	0.00
10.000	0.01	0.00
10.050	0.02	0.00
10.100	0.02	0.00
10.150	0.03	0.01
10.200	0.04	0.02
10.250	0.04	0.02
10.300	0.05	0.03
10.350	0.06	0.04
10.400	0.07	0.05
10.450	0.08	0.05
10.500	0.08	0.05
10.550	0.09	0.06
10.600	0.10	0.08
10.650	0.12	0.09
10.700	0.14	0.11
10.750	0.15	0.12
10.800	0.16	0.13
10.850	0.17	0.14
10.900	0.16	0.13
10.950	0.20	0.17
11.000	0.27	0.23
11.050	0.30	0.26
11.100	0.30	0.26
11.150	0.33	0.29
11.200	0.37	0.32
11.250	0.40	0.36
11.300	0.45	0.40
11.350	0.50	0.45
11.400	0.58	0.52
11.450	0.64	0.57
11.500	0.70	0.63
11.550	0.81	0.74
11.600	0.97	0.88
11.650	1.07	0.98
11.700	1.17	1.08

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
11.750	1.39	1.29
11.800	1.70	1.59
11.850	2.12	1.98
11.900	2.65	2.49
11.950	3.71	3.50
12.000	5.23	4.95
12.050	7.43	7.08
12.100	10.36	9.93
12.150	9.25	8.87
12.200	5.89	5.68
12.250	4.53	4.36
12.300	3.70	3.57
12.350	3.20	3.09
12.400	2.72	2.63
12.450	2.57	2.48
12.500	2.49	2.41
12.550	2.28	2.21
12.600	1.98	1.92
12.650	1.86	1.80
12.700	1.78	1.72
12.750	1.71	1.66
12.800	1.65	1.60
12.850	1.59	1.54
12.900	1.52	1.47
12.950	1.46	1.41
13.000	1.39	1.35
13.050	1.32	1.28
13.100	1.25	1.21
13.150	1.20	1.17
13.200	1.16	1.13
13.250	1.12	1.09
13.300	1.08	1.05
13.350	1.04	1.02
13.400	1.00	0.97
13.450	0.96	0.94
13.500	0.92	0.90
13.550	0.88	0.86
13.600	0.84	0.82
13.650	0.82	0.80
13.700	0.81	0.78
13.750	0.80	0.77
13.800	0.78	0.76
13.850	0.77	0.75
13.900	0.76	0.74
13.950	0.75	0.73
14.000	0.74	0.72
14.050	0.73	0.71

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
14.100	0.72	0.70
14.150	0.71	0.69
14.200	0.70	0.68
14.250	0.69	0.67
14.300	0.68	0.66
14.350	0.67	0.65
14.400	0.65	0.64
14.450	0.64	0.63
14.500	0.63	0.62
14.550	0.62	0.61
14.600	0.61	0.59
14.650	0.60	0.58
14.700	0.59	0.57
14.750	0.58	0.56
14.800	0.56	0.55
14.850	0.55	0.54
14.900	0.54	0.53
14.950	0.53	0.51
15.000	0.52	0.50
15.050	0.50	0.49
15.100	0.49	0.47
15.150	0.48	0.47
15.200	0.49	0.47
15.250	0.48	0.47
15.300	0.48	0.47
15.350	0.47	0.46
15.400	0.47	0.46
15.450	0.47	0.46
15.500	0.46	0.45
15.550	0.46	0.45
15.600	0.46	0.45
15.650	0.45	0.44
15.700	0.45	0.44
15.750	0.45	0.44
15.800	0.44	0.43
15.850	0.44	0.43
15.900	0.44	0.43
15.950	0.44	0.43
16.000	0.43	0.42
16.050	0.43	0.42
16.100	0.43	0.42
16.150	0.42	0.41
16.200	0.42	0.41
16.250	0.42	0.41
16.300	0.41	0.40
16.350	0.41	0.40
16.400	0.41	0.40

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
16.450	0.40	0.39
16.500	0.40	0.39
16.550	0.40	0.39
16.600	0.39	0.38
16.650	0.39	0.38
16.700	0.39	0.38
16.750	0.38	0.37
16.800	0.38	0.37
16.850	0.38	0.37
16.900	0.37	0.36
16.950	0.37	0.36
17.000	0.37	0.36
17.050	0.36	0.35
17.100	0.36	0.35
17.150	0.36	0.35
17.200	0.35	0.34
17.250	0.35	0.34
17.300	0.35	0.34
17.350	0.34	0.33
17.400	0.34	0.33
17.450	0.34	0.33
17.500	0.33	0.32
17.550	0.33	0.32
17.600	0.32	0.32
17.650	0.32	0.31
17.700	0.32	0.31
17.750	0.32	0.31
17.800	0.31	0.30
17.850	0.31	0.30
17.900	0.30	0.30
17.950	0.30	0.29
18.000	0.30	0.29
18.050	0.29	0.29
18.100	0.29	0.28
18.150	0.29	0.28
18.200	0.29	0.28
18.250	0.29	0.28
18.300	0.29	0.28
18.350	0.29	0.28
18.400	0.28	0.28
18.450	0.28	0.28
18.500	0.28	0.28
18.550	0.28	0.28
18.600	0.28	0.28
18.650	0.28	0.27
18.700	0.28	0.27
18.750	0.28	0.27

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
18.800	0.28	0.27
18.850	0.28	0.27
18.900	0.28	0.27
18.950	0.28	0.27
19.000	0.27	0.27
19.050	0.27	0.27
19.100	0.27	0.27
19.150	0.27	0.27
19.200	0.27	0.27
19.250	0.27	0.27
19.300	0.27	0.26
19.350	0.27	0.26
19.400	0.27	0.26
19.450	0.27	0.26
19.500	0.27	0.26
19.550	0.27	0.26
19.600	0.26	0.26
19.650	0.26	0.26
19.700	0.26	0.26
19.750	0.26	0.26
19.800	0.26	0.26
19.850	0.26	0.26
19.900	0.26	0.25
19.950	0.26	0.25
20.000	0.26	0.25
20.050	0.26	0.25
20.100	0.26	0.25
20.150	0.26	0.25
20.200	0.26	0.25
20.250	0.25	0.25
20.300	0.25	0.25
20.350	0.25	0.25
20.400	0.25	0.25
20.450	0.25	0.25
20.500	0.25	0.24
20.550	0.25	0.24
20.600	0.25	0.24
20.650	0.25	0.24
20.700	0.25	0.24
20.750	0.25	0.24
20.800	0.24	0.24
20.850	0.24	0.24
20.900	0.24	0.24
20.950	0.24	0.24
21.000	0.24	0.24
21.050	0.24	0.24
21.100	0.24	0.23

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
21.150	0.24	0.23
21.200	0.24	0.23
21.250	0.24	0.23
21.300	0.24	0.23
21.350	0.24	0.23
21.400	0.24	0.23
21.450	0.23	0.23
21.500	0.23	0.23
21.550	0.23	0.23
21.600	0.23	0.23
21.650	0.23	0.23
21.700	0.23	0.22
21.750	0.23	0.22
21.800	0.23	0.22
21.850	0.23	0.22
21.900	0.23	0.22
21.950	0.23	0.22
22.000	0.22	0.22
22.050	0.22	0.22
22.100	0.22	0.22
22.150	0.22	0.22
22.200	0.22	0.22
22.250	0.22	0.22
22.300	0.22	0.21
22.350	0.22	0.21
22.400	0.22	0.21
22.450	0.22	0.21
22.500	0.22	0.21
22.550	0.21	0.21
22.600	0.21	0.21
22.650	0.21	0.21
22.700	0.21	0.21
22.750	0.21	0.21
22.800	0.21	0.21
22.850	0.21	0.21
22.900	0.21	0.20
22.950	0.21	0.20
23.000	0.21	0.20
23.050	0.21	0.20
23.100	0.21	0.20
23.150	0.20	0.20
23.200	0.20	0.20
23.250	0.20	0.20
23.300	0.20	0.20
23.350	0.20	0.20
23.400	0.20	0.20
23.450	0.20	0.19

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
23.500	0.20	0.19
23.550	0.20	0.19
23.600	0.20	0.19
23.650	0.20	0.19
23.700	0.19	0.19
23.750	0.19	0.19
23.800	0.19	0.19
23.850	0.19	0.19
23.900	0.19	0.19
23.950	0.19	0.19
24.000	0.19	0.19
24.050	0.13	0.13
24.100	0.04	0.04
24.150	0.01	0.01
24.200	0.00	0.00
24.250	0.00	0.00
24.300	0.00	0.00
24.350	0.00	0.00
24.400	0.00	0.00
24.450	0.00	0.00
24.500	0.00	0.00
24.550	0.00	0.00
24.600	0.00	0.00
24.650	0.00	0.00
24.700	0.00	0.00
24.750	0.00	0.00
24.800	0.00	0.00
24.850	0.00	0.00
24.900	0.00	0.00
24.950	0.00	0.00
25.000	0.00	0.00
25.050	0.00	0.00
25.100	0.00	0.00
25.150	0.00	0.00
25.200	0.00	0.00
25.250	0.00	0.00
25.300	0.00	0.00
25.350	0.00	0.00
25.400	0.00	0.00
25.450	0.00	0.00
25.500	0.00	0.00
25.550	0.00	0.00
25.600	0.00	0.00
25.650	0.00	0.00
25.700	0.00	0.00
25.750	0.00	0.00
25.800	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
25.850	0.00	0.00
25.900	0.00	0.00
25.950	0.00	0.00
26.000	0.00	0.00
26.050	0.00	0.00
26.100	0.00	0.00
26.150	0.00	0.00
26.200	0.00	0.00
26.250	0.00	0.00
26.300	0.00	0.00
26.350	0.00	0.00
26.400	0.00	0.00
26.450	0.00	0.00
26.500	0.00	0.00
26.550	0.00	0.00
26.600	0.00	0.00
26.650	0.00	0.00
26.700	0.00	0.00
26.750	0.00	0.00
26.800	0.00	0.00
26.850	0.00	0.00
26.900	0.00	0.00
26.950	0.00	0.00
27.000	0.00	0.00
27.050	0.00	0.00
27.100	0.00	0.00
27.150	0.00	0.00
27.200	0.00	0.00
27.250	0.00	0.00
27.300	0.00	0.00
27.350	0.00	0.00
27.400	0.00	0.00
27.450	0.00	0.00
27.500	0.00	0.00
27.550	0.00	0.00
27.600	0.00	0.00
27.650	0.00	0.00
27.700	0.00	0.00
27.750	0.00	0.00
27.800	0.00	0.00
27.850	0.00	0.00
27.900	0.00	0.00
27.950	0.00	0.00
28.000	0.00	0.00
28.050	0.00	0.00
28.100	0.00	0.00
28.150	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
28.200	0.00	0.00
28.250	0.00	0.00
28.300	0.00	0.00
28.350	0.00	0.00
28.400	0.00	0.00
28.450	0.00	0.00
28.500	0.00	0.00
28.550	0.00	0.00
28.600	0.00	0.00
28.650	0.00	0.00
28.700	0.00	0.00
28.750	0.00	0.00
28.800	0.00	0.00
28.850	0.00	0.00
28.900	0.00	0.00
28.950	0.00	0.00
29.000	0.00	0.00
29.050	0.00	0.00
29.100	0.00	0.00
29.150	0.00	0.00
29.200	0.00	0.00
29.250	0.00	0.00
29.300	0.00	0.00
29.350	0.00	0.00
29.400	0.00	0.00
29.450	0.00	0.00
29.500	0.00	0.00
29.550	0.00	0.00
29.600	0.00	0.00
29.650	0.00	0.00
29.700	0.00	0.00
29.750	0.00	0.00
29.800	0.00	0.00
29.850	0.00	0.00
29.900	0.00	0.00
29.950	0.00	0.00
30.000	0.00	0.00
30.050	0.00	0.00
30.100	0.00	0.00
30.150	0.00	0.00
30.200	0.00	0.00
30.250	0.00	0.00
30.300	0.00	0.00
30.350	0.00	0.00
30.400	0.00	0.00
30.450	0.00	0.00
30.500	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
30.550	0.00	0.00
30.600	0.00	0.00
30.650	0.00	0.00
30.700	0.00	0.00
30.750	0.00	0.00
30.800	0.00	0.00
30.850	0.00	0.00
30.900	0.00	0.00
30.950	0.00	0.00
31.000	0.00	0.00
31.050	0.00	0.00
31.100	0.00	0.00
31.150	0.00	0.00
31.200	0.00	0.00
31.250	0.00	0.00
31.300	0.00	0.00
31.350	0.00	0.00
31.400	0.00	0.00
31.450	0.00	0.00
31.500	0.00	0.00
31.550	0.00	0.00
31.600	0.00	0.00
31.650	0.00	0.00
31.700	0.00	0.00
31.750	0.00	0.00
31.800	0.00	0.00
31.850	0.00	0.00
31.900	0.00	0.00
31.950	0.00	0.00
32.000	0.00	0.00
32.050	0.00	0.00
32.100	0.00	0.00
32.150	0.00	0.00
32.200	0.00	0.00
32.250	0.00	0.00
32.300	0.00	0.00
32.350	0.00	0.00
32.400	0.00	0.00
32.450	0.00	0.00
32.500	0.00	0.00
32.550	0.00	0.00
32.600	0.00	0.00
32.650	0.00	0.00
32.700	0.00	0.00
32.750	0.00	0.00
32.800	0.00	0.00
32.850	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
32.900	0.00	0.00
32.950	0.00	0.00
33.000	0.00	0.00
33.050	0.00	0.00
33.100	0.00	0.00
33.150	0.00	0.00
33.200	0.00	0.00
33.250	0.00	0.00
33.300	0.00	0.00
33.350	0.00	0.00
33.400	0.00	0.00
33.450	0.00	0.00
33.500	0.00	0.00
33.550	0.00	0.00
33.600	0.00	0.00
33.650	0.00	0.00
33.700	0.00	0.00
33.750	0.00	0.00
33.800	0.00	0.00
33.850	0.00	0.00
33.900	0.00	0.00
33.950	0.00	0.00
34.000	0.00	0.00
34.050	0.00	0.00
34.100	0.00	0.00
34.150	0.00	0.00
34.200	0.00	0.00
34.250	0.00	0.00
34.300	0.00	0.00
34.350	0.00	0.00
34.400	0.00	0.00
34.450	0.00	0.00
34.500	0.00	0.00
34.550	0.00	0.00
34.600	0.00	0.00
34.650	0.00	0.00
34.700	0.00	0.00
34.750	0.00	0.00
34.800	0.00	0.00
34.850	0.00	0.00
34.900	0.00	0.00
34.950	0.00	0.00
35.000	0.00	0.00
35.050	0.00	0.00
35.100	0.00	0.00
35.150	0.00	0.00
35.200	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
35.250	0.00	0.00
35.300	0.00	0.00
35.350	0.00	0.00
35.400	0.00	0.00
35.450	0.00	0.00
35.500	0.00	0.00
35.550	0.00	0.00
35.600	0.00	0.00
35.650	0.00	0.00
35.700	0.00	0.00
35.750	0.00	0.00
35.800	0.00	0.00
35.850	0.00	0.00
35.900	0.00	0.00
35.950	0.00	0.00
36.000	0.00	0.00
36.050	0.00	0.00
36.100	0.00	0.00
36.150	0.00	0.00
36.200	0.00	0.00
36.250	0.00	0.00
36.300	0.00	0.00
36.350	0.00	0.00
36.400	0.00	0.00
36.450	0.00	0.00
36.500	0.00	0.00
36.550	0.00	0.00
36.600	0.00	0.00
36.650	0.00	0.00
36.700	0.00	0.00
36.750	0.00	0.00
36.800	0.00	0.00
36.850	0.00	0.00
36.900	0.00	0.00
36.950	0.00	0.00
37.000	0.00	0.00
37.050	0.00	0.00
37.100	0.00	0.00
37.150	0.00	0.00
37.200	0.00	0.00
37.250	0.00	0.00
37.300	0.00	0.00
37.350	0.00	0.00
37.400	0.00	0.00
37.450	0.00	0.00
37.500	0.00	0.00
37.550	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
37.600	0.00	0.00
37.650	0.00	0.00
37.700	0.00	0.00
37.750	0.00	0.00
37.800	0.00	0.00
37.850	0.00	0.00
37.900	0.00	0.00
37.950	0.00	0.00
38.000	0.00	0.00
38.050	0.00	0.00
38.100	0.00	0.00
38.150	0.00	0.00
38.200	0.00	0.00
38.250	0.00	0.00
38.300	0.00	0.00
38.350	0.00	0.00
38.400	0.00	0.00
38.450	0.00	0.00
38.500	0.00	0.00
38.550	0.00	0.00
38.600	0.00	0.00
38.650	0.00	0.00
38.700	0.00	0.00
38.750	0.00	0.00
38.800	0.00	0.00
38.850	0.00	0.00
38.900	0.00	0.00
38.950	0.00	0.00
39.000	0.00	0.00
39.050	0.00	0.00
39.100	0.00	0.00
39.150	0.00	0.00
39.200	0.00	0.00
39.250	0.00	0.00
39.300	0.00	0.00
39.350	0.00	0.00
39.400	0.00	0.00
39.450	0.00	0.00
39.500	0.00	0.00
39.550	0.00	0.00
39.600	0.00	0.00
39.650	0.00	0.00
39.700	0.00	0.00
39.750	0.00	0.00
39.800	0.00	0.00
39.850	0.00	0.00
39.900	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
39.950	0.00	0.00
40.000	0.00	0.00
40.050	0.00	0.00
40.100	0.00	0.00
40.150	0.00	0.00
40.200	0.00	0.00
40.250	0.00	0.00
40.300	0.00	0.00
40.350	0.00	0.00
40.400	0.00	0.00
40.450	0.00	0.00
40.500	0.00	0.00
40.550	0.00	0.00
40.600	0.00	0.00
40.650	0.00	0.00
40.700	0.00	0.00
40.750	0.00	0.00
40.800	0.00	0.00
40.850	0.00	0.00
40.900	0.00	0.00
40.950	0.00	0.00
41.000	0.00	0.00
41.050	0.00	0.00
41.100	0.00	0.00
41.150	0.00	0.00
41.200	0.00	0.00
41.250	0.00	0.00
41.300	0.00	0.00
41.350	0.00	0.00
41.400	0.00	0.00
41.450	0.00	0.00
41.500	0.00	0.00
41.550	0.00	0.00
41.600	0.00	0.00
41.650	0.00	0.00
41.700	0.00	0.00
41.750	0.00	0.00
41.800	0.00	0.00
41.850	0.00	0.00
41.900	0.00	0.00
41.950	0.00	0.00
42.000	0.00	0.00
42.050	0.00	0.00
42.100	0.00	0.00
42.150	0.00	0.00
42.200	0.00	0.00
42.250	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
42.300	0.00	0.00
42.350	0.00	0.00
42.400	0.00	0.00
42.450	0.00	0.00
42.500	0.00	0.00
42.550	0.00	0.00
42.600	0.00	0.00
42.650	0.00	0.00
42.700	0.00	0.00
42.750	0.00	0.00
42.800	0.00	0.00
42.850	0.00	0.00
42.900	0.00	0.00
42.950	0.00	0.00
43.000	0.00	0.00
43.050	0.00	0.00
43.100	0.00	0.00
43.150	0.00	0.00
43.200	0.00	0.00
43.250	0.00	0.00
43.300	0.00	0.00
43.350	0.00	0.00
43.400	0.00	0.00
43.450	0.00	0.00
43.500	0.00	0.00
43.550	0.00	0.00
43.600	0.00	0.00
43.650	0.00	0.00
43.700	0.00	0.00
43.750	0.00	0.00
43.800	0.00	0.00
43.850	0.00	0.00
43.900	0.00	0.00
43.950	0.00	0.00
44.000	0.00	0.00
44.050	0.00	0.00
44.100	0.00	0.00
44.150	0.00	0.00
44.200	0.00	0.00
44.250	0.00	0.00
44.300	0.00	0.00
44.350	0.00	0.00
44.400	0.00	0.00
44.450	0.00	0.00
44.500	0.00	0.00
44.550	0.00	0.00
44.600	0.00	0.00

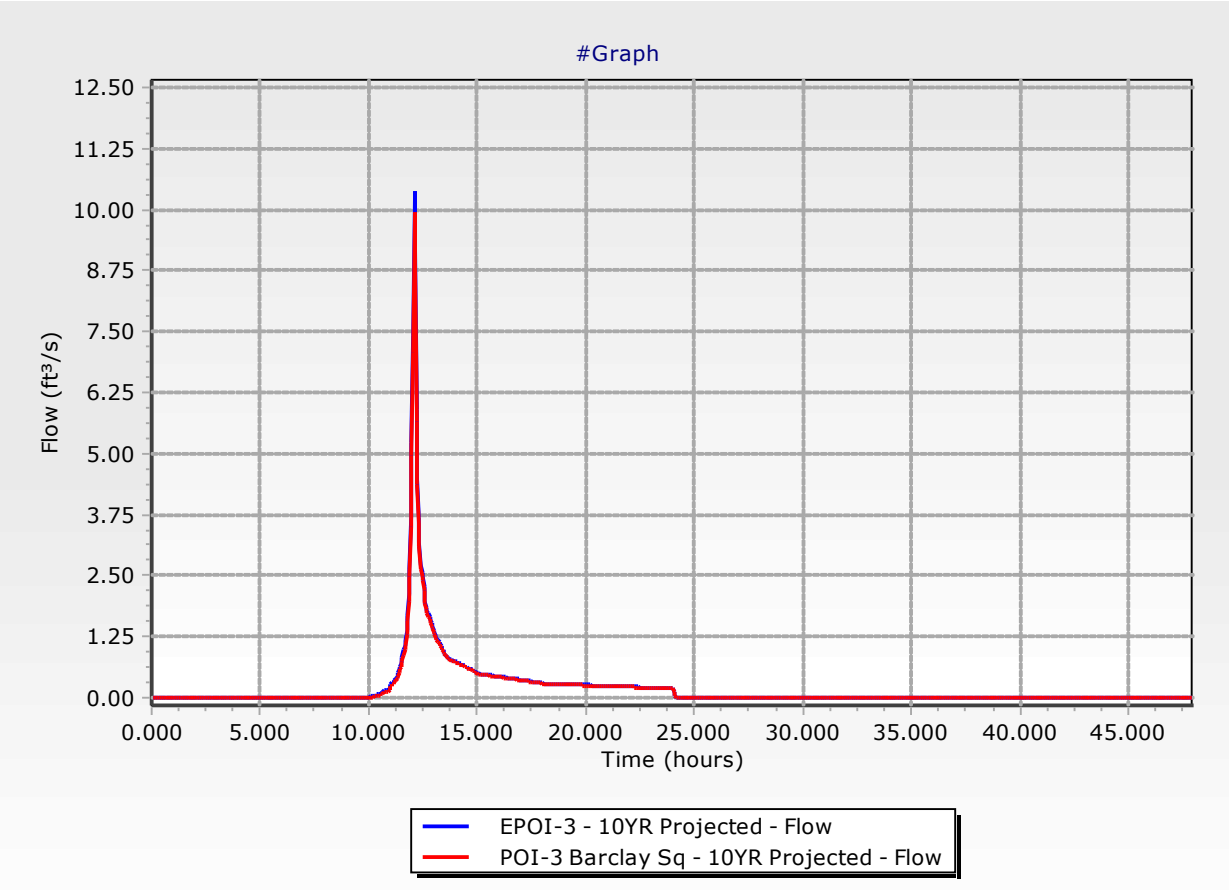
Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
44.650	0.00	0.00
44.700	0.00	0.00
44.750	0.00	0.00
44.800	0.00	0.00
44.850	0.00	0.00
44.900	0.00	0.00
44.950	0.00	0.00
45.000	0.00	0.00
45.050	0.00	0.00
45.100	0.00	0.00
45.150	0.00	0.00
45.200	0.00	0.00
45.250	0.00	0.00
45.300	0.00	0.00
45.350	0.00	0.00
45.400	0.00	0.00
45.450	0.00	0.00
45.500	0.00	0.00
45.550	0.00	0.00
45.600	0.00	0.00
45.650	0.00	0.00
45.700	0.00	0.00
45.750	0.00	0.00
45.800	0.00	0.00
45.850	0.00	0.00
45.900	0.00	0.00
45.950	0.00	0.00
46.000	0.00	0.00
46.050	0.00	0.00
46.100	0.00	0.00
46.150	0.00	0.00
46.200	0.00	0.00
46.250	0.00	0.00
46.300	0.00	0.00
46.350	0.00	0.00
46.400	0.00	0.00
46.450	0.00	0.00
46.500	0.00	0.00
46.550	0.00	0.00
46.600	0.00	0.00
46.650	0.00	0.00
46.700	0.00	0.00
46.750	0.00	0.00
46.800	0.00	0.00
46.850	0.00	0.00
46.900	0.00	0.00
46.950	0.00	0.00

Graph Data Table - 10yr Projected Overlay

Time (hours)	EPOI-3 - 10YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 10YR Projected - Flow (ft^3/s)
47.000	0.00	0.00
47.050	0.00	0.00
47.100	0.00	0.00
47.150	0.00	0.00
47.200	0.00	0.00
47.250	0.00	0.00
47.300	0.00	0.00
47.350	0.00	0.00
47.400	0.00	0.00
47.450	0.00	0.00
47.500	0.00	0.00
47.550	0.00	0.00
47.600	0.00	0.00
47.650	0.00	0.00
47.700	0.00	0.00
47.750	0.00	0.00
47.800	0.00	0.00
47.850	0.00	0.00
47.900	0.00	0.00
47.950	0.00	0.00
48.000	0.00	0.00

Existing and Proposed
Graph Data Table - 10yr Projected Overlay



Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
0.000	0.00	0.00
0.050	0.00	0.00
0.100	0.00	0.00
0.150	0.00	0.00
0.200	0.00	0.00
0.250	0.00	0.00
0.300	0.00	0.00
0.350	0.00	0.00
0.400	0.00	0.00
0.450	0.00	0.00
0.500	0.00	0.00
0.550	0.00	0.00
0.600	0.00	0.00
0.650	0.00	0.00
0.700	0.00	0.00
0.750	0.00	0.00
0.800	0.00	0.00
0.850	0.00	0.00
0.900	0.00	0.00
0.950	0.00	0.00
1.000	0.00	0.00
1.050	0.00	0.00
1.100	0.00	0.00
1.150	0.00	0.00
1.200	0.00	0.00
1.250	0.00	0.00
1.300	0.00	0.00
1.350	0.00	0.00
1.400	0.00	0.00
1.450	0.00	0.00
1.500	0.00	0.00
1.550	0.00	0.00
1.600	0.00	0.00
1.650	0.00	0.00
1.700	0.00	0.00
1.750	0.00	0.00
1.800	0.00	0.00
1.850	0.00	0.00
1.900	0.00	0.00
1.950	0.00	0.00
2.000	0.00	0.00
2.050	0.00	0.00
2.100	0.00	0.00
2.150	0.00	0.00
2.200	0.00	0.00
2.250	0.00	0.00
2.300	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
2.350	0.00	0.00
2.400	0.00	0.00
2.450	0.00	0.00
2.500	0.00	0.00
2.550	0.00	0.00
2.600	0.00	0.00
2.650	0.00	0.00
2.700	0.00	0.00
2.750	0.00	0.00
2.800	0.00	0.00
2.850	0.00	0.00
2.900	0.00	0.00
2.950	0.00	0.00
3.000	0.00	0.00
3.050	0.00	0.00
3.100	0.00	0.00
3.150	0.00	0.00
3.200	0.00	0.00
3.250	0.00	0.00
3.300	0.00	0.00
3.350	0.00	0.00
3.400	0.00	0.00
3.450	0.00	0.00
3.500	0.00	0.00
3.550	0.00	0.00
3.600	0.00	0.00
3.650	0.00	0.00
3.700	0.00	0.00
3.750	0.00	0.00
3.800	0.00	0.00
3.850	0.00	0.00
3.900	0.00	0.00
3.950	0.00	0.00
4.000	0.00	0.00
4.050	0.00	0.00
4.100	0.00	0.00
4.150	0.00	0.00
4.200	0.00	0.00
4.250	0.00	0.00
4.300	0.00	0.00
4.350	0.00	0.00
4.400	0.00	0.00
4.450	0.00	0.00
4.500	0.00	0.00
4.550	0.00	0.00
4.600	0.00	0.00
4.650	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
4.700	0.00	0.00
4.750	0.00	0.00
4.800	0.00	0.00
4.850	0.00	0.00
4.900	0.00	0.00
4.950	0.00	0.00
5.000	0.00	0.00
5.050	0.00	0.00
5.100	0.00	0.00
5.150	0.00	0.00
5.200	0.00	0.00
5.250	0.00	0.00
5.300	0.00	0.00
5.350	0.00	0.00
5.400	0.00	0.00
5.450	0.00	0.00
5.500	0.00	0.00
5.550	0.00	0.00
5.600	0.00	0.00
5.650	0.00	0.00
5.700	0.00	0.00
5.750	0.00	0.00
5.800	0.00	0.00
5.850	0.00	0.00
5.900	0.00	0.00
5.950	0.00	0.00
6.000	0.00	0.00
6.050	0.00	0.00
6.100	0.00	0.00
6.150	0.00	0.00
6.200	0.00	0.00
6.250	0.00	0.00
6.300	0.00	0.00
6.350	0.00	0.00
6.400	0.00	0.00
6.450	0.00	0.00
6.500	0.00	0.00
6.550	0.00	0.00
6.600	0.00	0.00
6.650	0.00	0.00
6.700	0.00	0.00
6.750	0.00	0.00
6.800	0.00	0.00
6.850	0.00	0.00
6.900	0.00	0.00
6.950	0.00	0.00
7.000	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
7.050	0.01	0.00
7.100	0.01	0.00
7.150	0.01	0.00
7.200	0.02	0.00
7.250	0.03	0.01
7.300	0.04	0.01
7.350	0.04	0.02
7.400	0.04	0.02
7.450	0.05	0.03
7.500	0.06	0.04
7.550	0.06	0.04
7.600	0.05	0.04
7.650	0.06	0.05
7.700	0.08	0.06
7.750	0.08	0.06
7.800	0.07	0.05
7.850	0.08	0.06
7.900	0.10	0.08
7.950	0.12	0.09
8.000	0.12	0.10
8.050	0.12	0.09
8.100	0.10	0.08
8.150	0.11	0.09
8.200	0.14	0.12
8.250	0.15	0.13
8.300	0.16	0.13
8.350	0.15	0.13
8.400	0.13	0.11
8.450	0.14	0.12
8.500	0.17	0.15
8.550	0.19	0.16
8.600	0.19	0.17
8.650	0.20	0.18
8.700	0.21	0.18
8.750	0.21	0.19
8.800	0.22	0.19
8.850	0.25	0.22
8.900	0.30	0.26
8.950	0.26	0.23
9.000	0.19	0.17
9.050	0.17	0.16
9.100	0.17	0.15
9.150	0.26	0.23
9.200	0.39	0.35
9.250	0.41	0.37
9.300	0.39	0.35
9.350	0.39	0.35

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
9.400	0.40	0.36
9.450	0.37	0.34
9.500	0.33	0.30
9.550	0.36	0.33
9.600	0.41	0.38
9.650	0.47	0.43
9.700	0.54	0.50
9.750	0.53	0.49
9.800	0.49	0.45
9.850	0.48	0.45
9.900	0.49	0.45
9.950	0.54	0.50
10.000	0.61	0.57
10.050	0.64	0.60
10.100	0.66	0.61
10.150	0.67	0.63
10.200	0.69	0.64
10.250	0.70	0.65
10.300	0.71	0.67
10.350	0.77	0.72
10.400	0.86	0.80
10.450	0.84	0.79
10.500	0.79	0.74
10.550	0.83	0.79
10.600	0.92	0.87
10.650	1.01	0.95
10.700	1.11	1.05
10.750	1.16	1.10
10.800	1.18	1.12
10.850	1.15	1.09
10.900	1.08	1.03
10.950	1.31	1.25
11.000	1.68	1.60
11.050	1.76	1.67
11.100	1.73	1.65
11.150	1.80	1.72
11.200	1.92	1.84
11.250	2.05	1.96
11.300	2.20	2.11
11.350	2.41	2.31
11.400	2.67	2.56
11.450	2.86	2.74
11.500	3.04	2.92
11.550	3.43	3.30
11.600	3.96	3.82
11.650	4.26	4.11
11.700	4.51	4.36

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
11.750	5.22	5.05
11.800	6.21	6.02
11.850	7.48	7.26
11.900	9.06	8.81
11.950	12.20	11.88
12.000	16.54	16.11
12.050	22.43	21.91
12.100	29.87	29.27
12.150	25.82	25.27
12.200	16.06	15.79
12.250	12.14	11.90
12.300	9.79	9.62
12.350	8.38	8.24
12.400	7.08	6.96
12.450	6.63	6.52
12.500	6.40	6.30
12.550	5.83	5.74
12.600	5.04	4.97
12.650	4.71	4.64
12.700	4.49	4.42
12.750	4.32	4.25
12.800	4.14	4.08
12.850	3.98	3.92
12.900	3.79	3.74
12.950	3.63	3.58
13.000	3.45	3.40
13.050	3.28	3.23
13.100	3.09	3.05
13.150	2.97	2.93
13.200	2.86	2.82
13.250	2.77	2.73
13.300	2.66	2.62
13.350	2.56	2.53
13.400	2.46	2.42
13.450	2.36	2.33
13.500	2.25	2.22
13.550	2.15	2.12
13.600	2.04	2.02
13.650	1.99	1.97
13.700	1.96	1.93
13.750	1.93	1.91
13.800	1.90	1.88
13.850	1.88	1.85
13.900	1.85	1.82
13.950	1.82	1.80
14.000	1.79	1.77
14.050	1.77	1.75

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
14.100	1.74	1.72
14.150	1.71	1.69
14.200	1.68	1.66
14.250	1.66	1.64
14.300	1.63	1.61
14.350	1.60	1.58
14.400	1.57	1.55
14.450	1.54	1.52
14.500	1.51	1.50
14.550	1.49	1.47
14.600	1.46	1.44
14.650	1.43	1.41
14.700	1.40	1.38
14.750	1.37	1.36
14.800	1.34	1.33
14.850	1.32	1.30
14.900	1.28	1.27
14.950	1.26	1.24
15.000	1.23	1.21
15.050	1.20	1.18
15.100	1.16	1.14
15.150	1.15	1.14
15.200	1.15	1.14
15.250	1.15	1.13
15.300	1.13	1.12
15.350	1.12	1.11
15.400	1.12	1.10
15.450	1.11	1.09
15.500	1.10	1.09
15.550	1.09	1.08
15.600	1.08	1.07
15.650	1.07	1.06
15.700	1.07	1.06
15.750	1.06	1.05
15.800	1.05	1.04
15.850	1.04	1.03
15.900	1.03	1.02
15.950	1.03	1.01
16.000	1.02	1.01
16.050	1.01	1.00
16.100	1.00	0.99
16.150	1.00	0.98
16.200	0.98	0.97
16.250	0.98	0.97
16.300	0.97	0.96
16.350	0.96	0.95
16.400	0.95	0.94

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
16.450	0.95	0.94
16.500	0.94	0.93
16.550	0.93	0.92
16.600	0.92	0.91
16.650	0.91	0.90
16.700	0.91	0.90
16.750	0.90	0.89
16.800	0.89	0.88
16.850	0.88	0.87
16.900	0.87	0.86
16.950	0.87	0.86
17.000	0.86	0.85
17.050	0.85	0.84
17.100	0.84	0.83
17.150	0.83	0.82
17.200	0.82	0.81
17.250	0.82	0.81
17.300	0.81	0.80
17.350	0.80	0.79
17.400	0.79	0.78
17.450	0.78	0.77
17.500	0.77	0.77
17.550	0.77	0.76
17.600	0.76	0.75
17.650	0.75	0.74
17.700	0.74	0.73
17.750	0.73	0.73
17.800	0.73	0.72
17.850	0.72	0.71
17.900	0.71	0.70
17.950	0.70	0.69
18.000	0.69	0.68
18.050	0.68	0.68
18.100	0.67	0.67
18.150	0.67	0.66
18.200	0.67	0.66
18.250	0.67	0.66
18.300	0.66	0.66
18.350	0.66	0.65
18.400	0.66	0.65
18.450	0.66	0.65
18.500	0.65	0.65
18.550	0.65	0.65
18.600	0.65	0.65
18.650	0.65	0.64
18.700	0.65	0.64
18.750	0.65	0.64

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
18.800	0.65	0.64
18.850	0.64	0.64
18.900	0.64	0.63
18.950	0.64	0.63
19.000	0.63	0.63
19.050	0.63	0.63
19.100	0.63	0.62
19.150	0.63	0.62
19.200	0.63	0.62
19.250	0.63	0.62
19.300	0.62	0.62
19.350	0.62	0.61
19.400	0.62	0.61
19.450	0.62	0.61
19.500	0.62	0.61
19.550	0.61	0.61
19.600	0.61	0.60
19.650	0.61	0.60
19.700	0.61	0.60
19.750	0.61	0.60
19.800	0.60	0.60
19.850	0.60	0.59
19.900	0.60	0.59
19.950	0.60	0.59
20.000	0.59	0.59
20.050	0.59	0.59
20.100	0.59	0.59
20.150	0.59	0.58
20.200	0.59	0.58
20.250	0.58	0.58
20.300	0.58	0.57
20.350	0.58	0.57
20.400	0.58	0.57
20.450	0.58	0.57
20.500	0.57	0.57
20.550	0.57	0.57
20.600	0.57	0.57
20.650	0.57	0.56
20.700	0.57	0.56
20.750	0.56	0.56
20.800	0.56	0.56
20.850	0.56	0.55
20.900	0.56	0.55
20.950	0.56	0.55
21.000	0.55	0.55
21.050	0.55	0.55
21.100	0.55	0.54

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
21.150	0.55	0.54
21.200	0.55	0.54
21.250	0.54	0.54
21.300	0.54	0.53
21.350	0.54	0.53
21.400	0.54	0.53
21.450	0.54	0.53
21.500	0.53	0.53
21.550	0.53	0.53
21.600	0.53	0.52
21.650	0.53	0.52
21.700	0.52	0.52
21.750	0.52	0.52
21.800	0.52	0.52
21.850	0.52	0.51
21.900	0.52	0.51
21.950	0.52	0.51
22.000	0.51	0.51
22.050	0.51	0.51
22.100	0.51	0.50
22.150	0.51	0.50
22.200	0.51	0.50
22.250	0.50	0.50
22.300	0.50	0.49
22.350	0.50	0.49
22.400	0.49	0.49
22.450	0.49	0.49
22.500	0.49	0.49
22.550	0.49	0.48
22.600	0.49	0.48
22.650	0.49	0.48
22.700	0.48	0.48
22.750	0.48	0.48
22.800	0.48	0.47
22.850	0.48	0.47
22.900	0.48	0.47
22.950	0.47	0.47
23.000	0.47	0.46
23.050	0.47	0.46
23.100	0.47	0.46
23.150	0.47	0.46
23.200	0.46	0.46
23.250	0.46	0.45
23.300	0.46	0.45
23.350	0.46	0.45
23.400	0.45	0.45
23.450	0.45	0.45

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
23.500	0.45	0.45
23.550	0.45	0.44
23.600	0.45	0.44
23.650	0.44	0.44
23.700	0.44	0.44
23.750	0.44	0.43
23.800	0.43	0.43
23.850	0.43	0.43
23.900	0.43	0.43
23.950	0.43	0.43
24.000	0.43	0.43
24.050	0.29	0.29
24.100	0.08	0.08
24.150	0.02	0.02
24.200	0.01	0.00
24.250	0.00	0.00
24.300	0.00	0.00
24.350	0.00	0.00
24.400	0.00	0.00
24.450	0.00	0.00
24.500	0.00	0.00
24.550	0.00	0.00
24.600	0.00	0.00
24.650	0.00	0.00
24.700	0.00	0.00
24.750	0.00	0.00
24.800	0.00	0.00
24.850	0.00	0.00
24.900	0.00	0.00
24.950	0.00	0.00
25.000	0.00	0.00
25.050	0.00	0.00
25.100	0.00	0.00
25.150	0.00	0.00
25.200	0.00	0.00
25.250	0.00	0.00
25.300	0.00	0.00
25.350	0.00	0.00
25.400	0.00	0.00
25.450	0.00	0.00
25.500	0.00	0.00
25.550	0.00	0.00
25.600	0.00	0.00
25.650	0.00	0.00
25.700	0.00	0.00
25.750	0.00	0.00
25.800	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
25.850	0.00	0.00
25.900	0.00	0.00
25.950	0.00	0.00
26.000	0.00	0.00
26.050	0.00	0.00
26.100	0.00	0.00
26.150	0.00	0.00
26.200	0.00	0.00
26.250	0.00	0.00
26.300	0.00	0.00
26.350	0.00	0.00
26.400	0.00	0.00
26.450	0.00	0.00
26.500	0.00	0.00
26.550	0.00	0.00
26.600	0.00	0.00
26.650	0.00	0.00
26.700	0.00	0.00
26.750	0.00	0.00
26.800	0.00	0.00
26.850	0.00	0.00
26.900	0.00	0.00
26.950	0.00	0.00
27.000	0.00	0.00
27.050	0.00	0.00
27.100	0.00	0.00
27.150	0.00	0.00
27.200	0.00	0.00
27.250	0.00	0.00
27.300	0.00	0.00
27.350	0.00	0.00
27.400	0.00	0.00
27.450	0.00	0.00
27.500	0.00	0.00
27.550	0.00	0.00
27.600	0.00	0.00
27.650	0.00	0.00
27.700	0.00	0.00
27.750	0.00	0.00
27.800	0.00	0.00
27.850	0.00	0.00
27.900	0.00	0.00
27.950	0.00	0.00
28.000	0.00	0.00
28.050	0.00	0.00
28.100	0.00	0.00
28.150	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
28.200	0.00	0.00
28.250	0.00	0.00
28.300	0.00	0.00
28.350	0.00	0.00
28.400	0.00	0.00
28.450	0.00	0.00
28.500	0.00	0.00
28.550	0.00	0.00
28.600	0.00	0.00
28.650	0.00	0.00
28.700	0.00	0.00
28.750	0.00	0.00
28.800	0.00	0.00
28.850	0.00	0.00
28.900	0.00	0.00
28.950	0.00	0.00
29.000	0.00	0.00
29.050	0.00	0.00
29.100	0.00	0.00
29.150	0.00	0.00
29.200	0.00	0.00
29.250	0.00	0.00
29.300	0.00	0.00
29.350	0.00	0.00
29.400	0.00	0.00
29.450	0.00	0.00
29.500	0.00	0.00
29.550	0.00	0.00
29.600	0.00	0.00
29.650	0.00	0.00
29.700	0.00	0.00
29.750	0.00	0.00
29.800	0.00	0.00
29.850	0.00	0.00
29.900	0.00	0.00
29.950	0.00	0.00
30.000	0.00	0.00
30.050	0.00	0.00
30.100	0.00	0.00
30.150	0.00	0.00
30.200	0.00	0.00
30.250	0.00	0.00
30.300	0.00	0.00
30.350	0.00	0.00
30.400	0.00	0.00
30.450	0.00	0.00
30.500	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
30.550	0.00	0.00
30.600	0.00	0.00
30.650	0.00	0.00
30.700	0.00	0.00
30.750	0.00	0.00
30.800	0.00	0.00
30.850	0.00	0.00
30.900	0.00	0.00
30.950	0.00	0.00
31.000	0.00	0.00
31.050	0.00	0.00
31.100	0.00	0.00
31.150	0.00	0.00
31.200	0.00	0.00
31.250	0.00	0.00
31.300	0.00	0.00
31.350	0.00	0.00
31.400	0.00	0.00
31.450	0.00	0.00
31.500	0.00	0.00
31.550	0.00	0.00
31.600	0.00	0.00
31.650	0.00	0.00
31.700	0.00	0.00
31.750	0.00	0.00
31.800	0.00	0.00
31.850	0.00	0.00
31.900	0.00	0.00
31.950	0.00	0.00
32.000	0.00	0.00
32.050	0.00	0.00
32.100	0.00	0.00
32.150	0.00	0.00
32.200	0.00	0.00
32.250	0.00	0.00
32.300	0.00	0.00
32.350	0.00	0.00
32.400	0.00	0.00
32.450	0.00	0.00
32.500	0.00	0.00
32.550	0.00	0.00
32.600	0.00	0.00
32.650	0.00	0.00
32.700	0.00	0.00
32.750	0.00	0.00
32.800	0.00	0.00
32.850	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
32.900	0.00	0.00
32.950	0.00	0.00
33.000	0.00	0.00
33.050	0.00	0.00
33.100	0.00	0.00
33.150	0.00	0.00
33.200	0.00	0.00
33.250	0.00	0.00
33.300	0.00	0.00
33.350	0.00	0.00
33.400	0.00	0.00
33.450	0.00	0.00
33.500	0.00	0.00
33.550	0.00	0.00
33.600	0.00	0.00
33.650	0.00	0.00
33.700	0.00	0.00
33.750	0.00	0.00
33.800	0.00	0.00
33.850	0.00	0.00
33.900	0.00	0.00
33.950	0.00	0.00
34.000	0.00	0.00
34.050	0.00	0.00
34.100	0.00	0.00
34.150	0.00	0.00
34.200	0.00	0.00
34.250	0.00	0.00
34.300	0.00	0.00
34.350	0.00	0.00
34.400	0.00	0.00
34.450	0.00	0.00
34.500	0.00	0.00
34.550	0.00	0.00
34.600	0.00	0.00
34.650	0.00	0.00
34.700	0.00	0.00
34.750	0.00	0.00
34.800	0.00	0.00
34.850	0.00	0.00
34.900	0.00	0.00
34.950	0.00	0.00
35.000	0.00	0.00
35.050	0.00	0.00
35.100	0.00	0.00
35.150	0.00	0.00
35.200	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
35.250	0.00	0.00
35.300	0.00	0.00
35.350	0.00	0.00
35.400	0.00	0.00
35.450	0.00	0.00
35.500	0.00	0.00
35.550	0.00	0.00
35.600	0.00	0.00
35.650	0.00	0.00
35.700	0.00	0.00
35.750	0.00	0.00
35.800	0.00	0.00
35.850	0.00	0.00
35.900	0.00	0.00
35.950	0.00	0.00
36.000	0.00	0.00
36.050	0.00	0.00
36.100	0.00	0.00
36.150	0.00	0.00
36.200	0.00	0.00
36.250	0.00	0.00
36.300	0.00	0.00
36.350	0.00	0.00
36.400	0.00	0.00
36.450	0.00	0.00
36.500	0.00	0.00
36.550	0.00	0.00
36.600	0.00	0.00
36.650	0.00	0.00
36.700	0.00	0.00
36.750	0.00	0.00
36.800	0.00	0.00
36.850	0.00	0.00
36.900	0.00	0.00
36.950	0.00	0.00
37.000	0.00	0.00
37.050	0.00	0.00
37.100	0.00	0.00
37.150	0.00	0.00
37.200	0.00	0.00
37.250	0.00	0.00
37.300	0.00	0.00
37.350	0.00	0.00
37.400	0.00	0.00
37.450	0.00	0.00
37.500	0.00	0.00
37.550	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
37.600	0.00	0.00
37.650	0.00	0.00
37.700	0.00	0.00
37.750	0.00	0.00
37.800	0.00	0.00
37.850	0.00	0.00
37.900	0.00	0.00
37.950	0.00	0.00
38.000	0.00	0.00
38.050	0.00	0.00
38.100	0.00	0.00
38.150	0.00	0.00
38.200	0.00	0.00
38.250	0.00	0.00
38.300	0.00	0.00
38.350	0.00	0.00
38.400	0.00	0.00
38.450	0.00	0.00
38.500	0.00	0.00
38.550	0.00	0.00
38.600	0.00	0.00
38.650	0.00	0.00
38.700	0.00	0.00
38.750	0.00	0.00
38.800	0.00	0.00
38.850	0.00	0.00
38.900	0.00	0.00
38.950	0.00	0.00
39.000	0.00	0.00
39.050	0.00	0.00
39.100	0.00	0.00
39.150	0.00	0.00
39.200	0.00	0.00
39.250	0.00	0.00
39.300	0.00	0.00
39.350	0.00	0.00
39.400	0.00	0.00
39.450	0.00	0.00
39.500	0.00	0.00
39.550	0.00	0.00
39.600	0.00	0.00
39.650	0.00	0.00
39.700	0.00	0.00
39.750	0.00	0.00
39.800	0.00	0.00
39.850	0.00	0.00
39.900	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
39.950	0.00	0.00
40.000	0.00	0.00
40.050	0.00	0.00
40.100	0.00	0.00
40.150	0.00	0.00
40.200	0.00	0.00
40.250	0.00	0.00
40.300	0.00	0.00
40.350	0.00	0.00
40.400	0.00	0.00
40.450	0.00	0.00
40.500	0.00	0.00
40.550	0.00	0.00
40.600	0.00	0.00
40.650	0.00	0.00
40.700	0.00	0.00
40.750	0.00	0.00
40.800	0.00	0.00
40.850	0.00	0.00
40.900	0.00	0.00
40.950	0.00	0.00
41.000	0.00	0.00
41.050	0.00	0.00
41.100	0.00	0.00
41.150	0.00	0.00
41.200	0.00	0.00
41.250	0.00	0.00
41.300	0.00	0.00
41.350	0.00	0.00
41.400	0.00	0.00
41.450	0.00	0.00
41.500	0.00	0.00
41.550	0.00	0.00
41.600	0.00	0.00
41.650	0.00	0.00
41.700	0.00	0.00
41.750	0.00	0.00
41.800	0.00	0.00
41.850	0.00	0.00
41.900	0.00	0.00
41.950	0.00	0.00
42.000	0.00	0.00
42.050	0.00	0.00
42.100	0.00	0.00
42.150	0.00	0.00
42.200	0.00	0.00
42.250	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
42.300	0.00	0.00
42.350	0.00	0.00
42.400	0.00	0.00
42.450	0.00	0.00
42.500	0.00	0.00
42.550	0.00	0.00
42.600	0.00	0.00
42.650	0.00	0.00
42.700	0.00	0.00
42.750	0.00	0.00
42.800	0.00	0.00
42.850	0.00	0.00
42.900	0.00	0.00
42.950	0.00	0.00
43.000	0.00	0.00
43.050	0.00	0.00
43.100	0.00	0.00
43.150	0.00	0.00
43.200	0.00	0.00
43.250	0.00	0.00
43.300	0.00	0.00
43.350	0.00	0.00
43.400	0.00	0.00
43.450	0.00	0.00
43.500	0.00	0.00
43.550	0.00	0.00
43.600	0.00	0.00
43.650	0.00	0.00
43.700	0.00	0.00
43.750	0.00	0.00
43.800	0.00	0.00
43.850	0.00	0.00
43.900	0.00	0.00
43.950	0.00	0.00
44.000	0.00	0.00
44.050	0.00	0.00
44.100	0.00	0.00
44.150	0.00	0.00
44.200	0.00	0.00
44.250	0.00	0.00
44.300	0.00	0.00
44.350	0.00	0.00
44.400	0.00	0.00
44.450	0.00	0.00
44.500	0.00	0.00
44.550	0.00	0.00
44.600	0.00	0.00

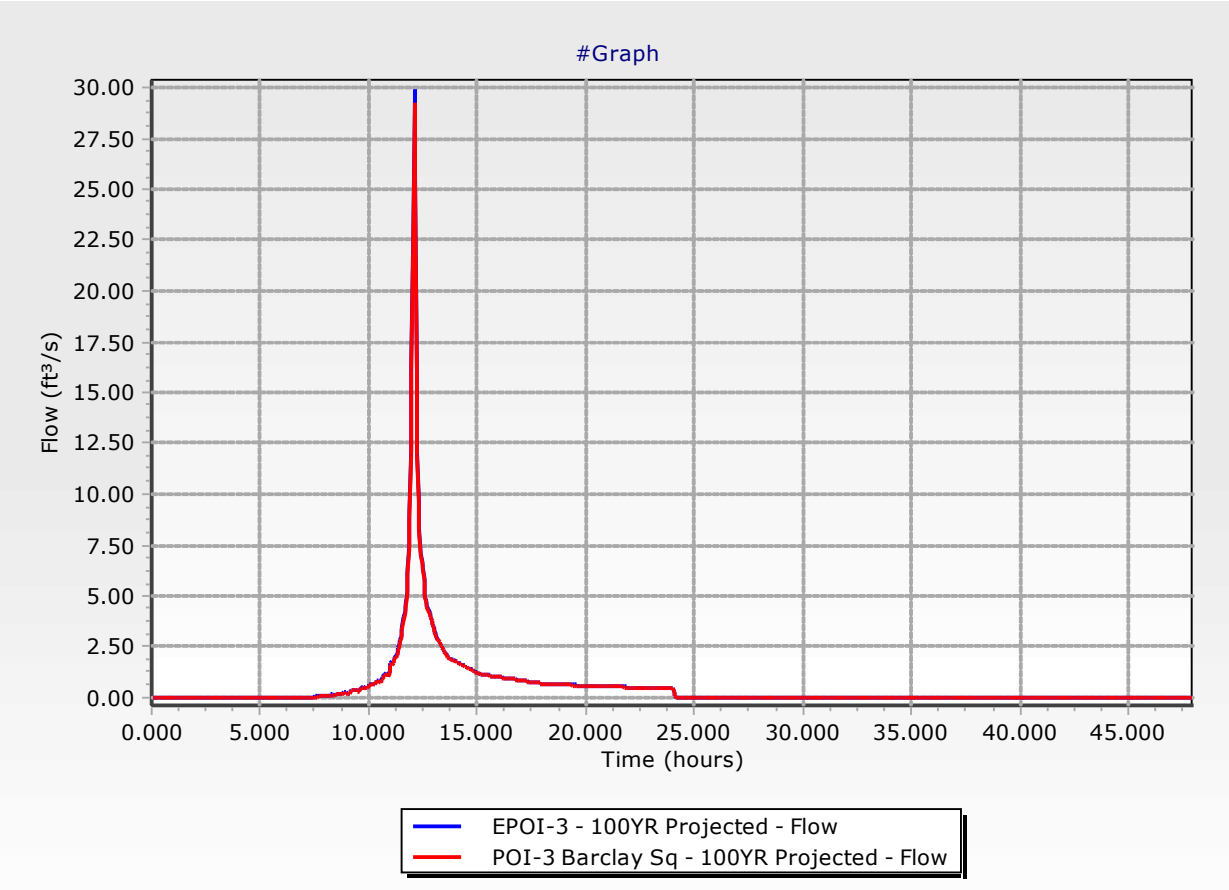
Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
44.650	0.00	0.00
44.700	0.00	0.00
44.750	0.00	0.00
44.800	0.00	0.00
44.850	0.00	0.00
44.900	0.00	0.00
44.950	0.00	0.00
45.000	0.00	0.00
45.050	0.00	0.00
45.100	0.00	0.00
45.150	0.00	0.00
45.200	0.00	0.00
45.250	0.00	0.00
45.300	0.00	0.00
45.350	0.00	0.00
45.400	0.00	0.00
45.450	0.00	0.00
45.500	0.00	0.00
45.550	0.00	0.00
45.600	0.00	0.00
45.650	0.00	0.00
45.700	0.00	0.00
45.750	0.00	0.00
45.800	0.00	0.00
45.850	0.00	0.00
45.900	0.00	0.00
45.950	0.00	0.00
46.000	0.00	0.00
46.050	0.00	0.00
46.100	0.00	0.00
46.150	0.00	0.00
46.200	0.00	0.00
46.250	0.00	0.00
46.300	0.00	0.00
46.350	0.00	0.00
46.400	0.00	0.00
46.450	0.00	0.00
46.500	0.00	0.00
46.550	0.00	0.00
46.600	0.00	0.00
46.650	0.00	0.00
46.700	0.00	0.00
46.750	0.00	0.00
46.800	0.00	0.00
46.850	0.00	0.00
46.900	0.00	0.00
46.950	0.00	0.00

Graph Data Table - 100yr Projected Overlay

Time (hours)	EPOI-3 - 100YR Projected - Flow (ft^3/s)	POI-3 Barclay Sq - 100YR Projected - Flow (ft^3/s)
47.000	0.00	0.00
47.050	0.00	0.00
47.100	0.00	0.00
47.150	0.00	0.00
47.200	0.00	0.00
47.250	0.00	0.00
47.300	0.00	0.00
47.350	0.00	0.00
47.400	0.00	0.00
47.450	0.00	0.00
47.500	0.00	0.00
47.550	0.00	0.00
47.600	0.00	0.00
47.650	0.00	0.00
47.700	0.00	0.00
47.750	0.00	0.00
47.800	0.00	0.00
47.850	0.00	0.00
47.900	0.00	0.00
47.950	0.00	0.00
48.000	0.00	0.00

Existing and Proposed
Graph Data Table - 100yr Projected Overlay



Appendix D

WQ Hydrographs

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA1 Imp	WQ	1	1,474.000	1.05	1.18
DA10 Imp	WQ	1	571.000	1.05	0.46
DA11 Imp	WQ	1	565.000	1.05	0.45
DA12A Imp	WQ	1	1,352.000	1.10	1.07
DA13 Imp	WQ	1	343.000	1.05	0.27
DA14 Imp	WQ	1	380.000	1.05	0.30
DA15 Imp	WQ	1	910.000	1.05	0.73
DA16 Imp	WQ	1	2,042.000	1.05	1.64
DA17 Imp	WQ	1	648.000	1.05	0.52
DA18 Imp	WQ	1	976.000	1.10	0.71
DA19 Imp	WQ	1	413.000	1.10	0.32
DA2 Imp	WQ	1	1,067.000	1.05	0.85
DA20 Imp	WQ	1	267.000	1.05	0.21
DA21 Imp	WQ	1	601.000	1.10	0.47
DA22 Imp	WQ	1	647.000	1.05	0.52
DA25 Imp	WQ	1	4,655.000	1.10	3.64
DA26 Imp	WQ	1	1,952.000	1.10	1.54
DA27	WQ	1	2,925.000	1.05	2.36
DA28 Imp	WQ	1	1,444.000	1.05	1.16
DA29 Imp	WQ	1	908.000	1.05	0.73
DA30 Imp	WQ	1	1,752.000	1.05	1.40
DA31 Imp	WQ	1	943.000	1.05	0.76
DA32 Imp	WQ	1	2,669.000	1.05	2.14
DA33 Imp	WQ	1	343.000	1.05	0.27
DA34 Imp	WQ	1	380.000	1.05	0.30
DA35 Imp	WQ	1	376.000	1.05	0.30
DA36 Imp	WQ	1	496.000	1.05	0.40
DA37 Imp	WQ	1	381.000	1.05	0.30
DA4 Imp	WQ	1	1,254.000	1.05	1.01
DA41 Imp	WQ	1	190.000	1.05	0.15
DA42 Imp	WQ	1	305.000	1.05	0.24
DA44 Imp	WQ	1	163.000	1.05	0.15
DA45 Imp	WQ	1	2,628.000	1.10	2.07
DA46 Imp	WQ	1	534.000	1.05	0.43
DA47 Imp	WQ	1	1,015.000	1.05	0.81
DA48 Imp	WQ	1	225.000	1.10	0.18
DA49 Imp	WQ	1	340.000	1.05	0.27
DA5 Imp	WQ	1	418.000	1.05	0.34
DA50 Imp	WQ	1	760.000	1.05	0.61
DA51 Imp	WQ	1	602.000	1.05	0.48
DA52 Imp	WQ	1	1,143.000	1.05	0.92
DA53 Imp	WQ	1	343.000	1.05	0.27
DA54 Imp	WQ	1	380.000	1.05	0.30

WQ Hydrographs

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA55 Imp	WQ	1	1,026.000	1.05	0.83
DA56 Imp	WQ	1	3,546.000	1.05	2.84
DA57 Imp	WQ	1	1,672.000	1.05	1.35
DA58 Imp	WQ	1	4,037.000	1.05	3.24
DA59 Imp	WQ	1	1,316.000	1.05	1.05
DA6 Imp	WQ	1	601.000	1.10	0.47
DA60 Imp	WQ	1	1,900.000	1.05	1.53
DA61 Imp	WQ	1	1,982.000	1.05	1.59
DA62 Imp	WQ	1	4,842.000	1.05	3.88
DA63 Imp	WQ	1	1,258.000	1.05	1.01
DA7 Imp	WQ	1	867.000	1.05	0.69
DA9 Imp	WQ	1	801.000	1.05	0.64
EDA3 Perv	WQ	1	1.000	2.00	0.00
Future Imp Road-Basin 6 (S Brunswick)	WQ	1	1,144.000	1.05	0.92
PDA-6 Imp (Plainsboro)	WQ	1	18,175.000	1.15	10.53
PDA8 Imp	WQ	1	1,448.000	1.05	1.16

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
J 24	WQ	1	45.000	3.45	0.00
POI-1 Ex FE Barclay Square	WQ	1	0.000	0.00	0.00
POI-2 (Harry's Brook)	WQ	1	45.000	2.65	0.00
POI-3 Barclay Square Ex	WQ	1	1.000	2.00	0.00

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
Bio1 (IN)	WQ	1	1,490.000	1.05	1.18	(N/A)	(N/A)
Bio1 (OUT)	WQ	1	0.000	0.00	0.00	77.24	1,164.000
Bio12 (IN)	WQ	1	1,364.000	1.10	1.07	(N/A)	(N/A)
Bio12 (OUT)	WQ	1	0.000	0.00	0.00	85.46	1,132.000
Bio25 (IN)	WQ	1	4,655.000	1.10	3.64	(N/A)	(N/A)
Bio25 (OUT)	WQ	1	0.000	0.00	0.00	100.34	4,643.000

WQ Hydrographs

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
Bio26 (IN)	WQ	1	1,952.000	1.10	1.54	(N/A)	(N/A)
Bio26 (OUT)	WQ	1	0.000	0.00	0.00	97.36	1,713.000
Bio28 (IN)	WQ	1	1,444.000	1.05	1.16	(N/A)	(N/A)
Bio28 (OUT)	WQ	1	0.000	0.00	0.00	91.34	1,444.000
Bio35 (IN)	WQ	1	379.000	1.05	0.30	(N/A)	(N/A)
Bio35 (OUT)	WQ	1	0.000	0.00	0.00	103.48	327.000
Bio36 (IN)	WQ	1	496.000	1.05	0.40	(N/A)	(N/A)
Bio36 (OUT)	WQ	1	0.000	0.00	0.00	98.58	493.000
Bio45 (IN)	WQ	1	4,103.000	1.10	2.29	(N/A)	(N/A)
Bio45 (OUT)	WQ	1	0.000	0.00	0.00	96.82	4,089.000
Bio51 (IN)	WQ	1	602.000	1.05	0.48	(N/A)	(N/A)
Bio51 (OUT)	WQ	1	0.000	0.00	0.00	102.22	599.000
Bio52 (IN)	WQ	1	1,143.000	1.05	0.92	(N/A)	(N/A)
Bio52 (OUT)	WQ	1	1.000	2.00	0.00	100.83	1,064.000
Bio53 (IN)	WQ	1	343.000	1.05	0.27	(N/A)	(N/A)
Bio53 (OUT)	WQ	1	0.000	0.00	0.00	104.91	335.000
Bio58 (IN)	WQ	1	4,064.000	1.05	3.20	(N/A)	(N/A)
Bio58 (OUT)	WQ	1	0.000	0.00	0.00	106.98	4,043.000
EX. BASIN 6 (IN)	WQ	1	19,320.000	1.15	10.88	(N/A)	(N/A)
EX. BASIN 6 (OUT)	WQ	1	0.000	0.00	0.00	89.34	19,283.000
Infil29 (IN)	WQ	1	908.000	1.05	0.73	(N/A)	(N/A)
Infil29 (OUT)	WQ	1	0.000	0.00	0.00	94.30	858.000
Infil30 (IN)	WQ	1	1,756.000	1.05	1.38	(N/A)	(N/A)
Infil30 (OUT)	WQ	1	45.000	3.45	0.00	91.47	1,753.000
Infil8 (IN)	WQ	1	1,448.000	1.05	1.16	(N/A)	(N/A)
Infil8 (OUT)	WQ	1	15.000	2.00	0.00	109.79	1,307.000
UGB10 (IN)	WQ	1	571.000	1.05	0.46	(N/A)	(N/A)
UGB10 (OUT)	WQ	1	0.000	0.00	0.00	106.46	571.000
UGB11 (IN)	WQ	1	565.000	1.05	0.45	(N/A)	(N/A)
UGB11 (OUT)	WQ	1	0.000	0.00	0.00	84.75	441.000
UGB13 (IN)	WQ	1	342.000	1.05	0.27	(N/A)	(N/A)
UGB13 (OUT)	WQ	1	0.000	0.00	0.00	86.87	343.000
UGB14 (IN)	WQ	1	381.000	1.05	0.30	(N/A)	(N/A)
UGB14 (OUT)	WQ	1	0.000	0.00	0.00	87.19	380.000
UGB15 (IN)	WQ	1	913.000	1.05	0.72	(N/A)	(N/A)

WQ Hydrographs

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB15 (OUT)	WQ	1	0.000	0.00	0.00	92.33	911.000
UGB16 (IN)	WQ	1	2,053.000	1.05	1.62	(N/A)	(N/A)
UGB16 (OUT)	WQ	1	0.000	0.00	0.00	94.51	2,044.000
UGB17 (IN)	WQ	1	648.000	1.05	0.52	(N/A)	(N/A)
UGB17 (OUT)	WQ	1	0.000	0.00	0.00	110.64	647.000
UGB18 (IN)	WQ	1	977.000	1.10	0.71	(N/A)	(N/A)
UGB18 (OUT)	WQ	1	9.000	2.15	0.00	95.25	974.000
UGB19 (IN)	WQ	1	414.000	1.10	0.32	(N/A)	(N/A)
UGB19 (OUT)	WQ	1	0.000	0.00	0.00	95.06	296.000
UGB2 (IN)	WQ	1	1,066.000	1.05	0.84	(N/A)	(N/A)
UGB2 (OUT)	WQ	1	0.000	0.00	0.00	85.86	1,067.000
UGB20 (IN)	WQ	1	272.000	1.05	0.21	(N/A)	(N/A)
UGB20 (OUT)	WQ	1	0.000	0.00	0.00	97.16	134.000
UGB21 (IN)	WQ	1	601.000	1.10	0.47	(N/A)	(N/A)
UGB21 (OUT)	WQ	1	3.000	2.10	0.00	99.25	600.000
UGB22 (IN)	WQ	1	647.000	1.05	0.52	(N/A)	(N/A)
UGB22 (OUT)	WQ	1	0.000	0.00	0.00	107.16	646.000
UGB27 (IN)	WQ	1	2,925.000	1.05	2.36	(N/A)	(N/A)
UGB27 (OUT)	WQ	1	0.000	0.00	0.00	100.72	2,765.000
UGB3 (IN)	WQ	1	0.000	0.00	0.00	(N/A)	(N/A)
UGB3 (OUT)	WQ	1	0.000	0.00	0.00	85.50	0.000
UGB31 (IN)	WQ	1	943.000	1.05	0.76	(N/A)	(N/A)
UGB31 (OUT)	WQ	1	4.000	2.10	0.00	93.18	943.000
UGB32 (IN)	WQ	1	2,669.000	1.05	2.14	(N/A)	(N/A)
UGB32 (OUT)	WQ	1	0.000	0.00	0.00	110.32	2,669.000
UGB33 (IN)	WQ	1	343.000	1.05	0.27	(N/A)	(N/A)
UGB33 (OUT)	WQ	1	0.000	0.00	0.00	106.20	342.000
UGB34 (IN)	WQ	1	380.000	1.05	0.30	(N/A)	(N/A)
UGB34 (OUT)	WQ	1	0.000	0.00	0.00	109.74	380.000
UGB37 (IN)	WQ	1	381.000	1.05	0.30	(N/A)	(N/A)

WQ Hydrographs

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB37 (OUT)	WQ	1	0.000	0.00	0.00	103.92	380.000
UGB4 (IN)	WQ	1	1,254.000	1.05	1.01	(N/A)	(N/A)
UGB4 (OUT)	WQ	1	0.000	0.00	0.00	85.65	1,056.000
UGB41 (IN)	WQ	1	190.000	1.05	0.15	(N/A)	(N/A)
UGB41 (OUT)	WQ	1	0.000	0.00	0.00	104.77	190.000
UGB42 (IN)	WQ	1	305.000	1.05	0.24	(N/A)	(N/A)
UGB42 (OUT)	WQ	1	0.000	0.00	0.00	95.38	304.000
UGB43 (IN)	WQ	1	0.000	0.00	0.00	(N/A)	(N/A)
UGB43 (OUT)	WQ	1	0.000	0.00	0.00	98.00	0.000
UGB44 (IN)	WQ	1	163.000	1.05	0.15	(N/A)	(N/A)
UGB44 (OUT)	WQ	1	0.000	0.00	0.00	101.14	122.000
UGB46 (IN)	WQ	1	534.000	1.05	0.43	(N/A)	(N/A)
UGB46 (OUT)	WQ	1	2.000	2.05	0.00	104.34	533.000
UGB47 (IN)	WQ	1	1,015.000	1.05	0.81	(N/A)	(N/A)
UGB47 (OUT)	WQ	1	0.000	0.00	0.00	108.83	1,015.000
UGB48 (IN)	WQ	1	225.000	1.10	0.18	(N/A)	(N/A)
UGB48 (OUT)	WQ	1	3.000	2.05	0.00	101.70	224.000
UGB49 (IN)	WQ	1	340.000	1.05	0.27	(N/A)	(N/A)
UGB49 (OUT)	WQ	1	0.000	0.00	0.00	103.64	340.000
UGB5 (IN)	WQ	1	414.000	1.00	0.33	(N/A)	(N/A)
UGB5 (OUT)	WQ	1	0.000	0.00	0.00	94.66	362.000
UGB50 (IN)	WQ	1	760.000	1.05	0.61	(N/A)	(N/A)
UGB50 (OUT)	WQ	1	0.000	0.00	0.00	102.80	760.000
UGB54 (IN)	WQ	1	380.000	1.05	0.30	(N/A)	(N/A)
UGB54 (OUT)	WQ	1	2.000	2.05	0.00	99.63	380.000
UGB55 (IN)	WQ	1	1,026.000	1.05	0.83	(N/A)	(N/A)
UGB55 (OUT)	WQ	1	0.000	0.00	0.00	106.18	1,025.000
UGB56 (IN)	WQ	1	3,546.000	1.05	2.84	(N/A)	(N/A)
UGB56 (OUT)	WQ	1	0.000	0.00	0.00	110.41	3,545.000
UGB57 (IN)	WQ	1	1,672.000	1.05	1.35	(N/A)	(N/A)

WQ Hydrographs

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB57 (OUT)	WQ	1	0.000	0.00	0.00	111.45	1,670.000
UGB59 (IN)	WQ	1	1,326.000	1.05	1.04	(N/A)	(N/A)
UGB59 (OUT)	WQ	1	0.000	0.00	0.00	104.07	1,318.000
UGB6 (IN)	WQ	1	605.000	1.10	0.47	(N/A)	(N/A)
UGB6 (OUT)	WQ	1	0.000	0.00	0.00	94.85	540.000
UGB60 (IN)	WQ	1	1,900.000	1.05	1.53	(N/A)	(N/A)
UGB60 (OUT)	WQ	1	0.000	0.00	0.00	111.50	1,898.000
UGB61 (IN)	WQ	1	1,982.000	1.05	1.59	(N/A)	(N/A)
UGB61 (OUT)	WQ	1	1,434.000	1.25	0.34	108.61	1,365.000
UGB62 (IN)	WQ	1	4,842.000	1.05	3.88	(N/A)	(N/A)
UGB62 (OUT)	WQ	1	21.000	2.10	0.00	108.66	4,842.000
UGB63 (IN)	WQ	1	1,258.000	1.05	1.01	(N/A)	(N/A)
UGB63 (OUT)	WQ	1	0.000	0.00	0.00	104.45	1,257.000
UGB7 (IN)	WQ	1	867.000	1.05	0.69	(N/A)	(N/A)
UGB7 (OUT)	WQ	1	0.000	1.85	0.00	99.65	742.000
UGB9 (IN)	WQ	1	801.000	1.05	0.64	(N/A)	(N/A)
UGB9 (OUT)	WQ	1	0.000	0.00	0.00	101.25	801.000

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.390 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.20 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.18 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.390 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,464.644 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,474.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA1 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.19 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.14 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.46 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	563.325 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	571.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.09 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.150 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.46 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.45 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.150 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	563.325 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	565.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA11 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.14 hours
Total unit time, Tb	0.17 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.360 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.09 hours
Flow (Peak, Computed)	1.09 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.10 hours
Flow (Peak Interpolated Output)	1.07 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.360 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,351.979 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,352.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA12A Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.69 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	337.995 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	343.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA13 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.67 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.30 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	375.550 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	380.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA14 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.29 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.74 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.73 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	901.319 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	910.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.88 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.13 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.540 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.66 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.64 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.540 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	2,027.969 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,042.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	14.06 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.170 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.52 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.52 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	638.435 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	648.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA17 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.99 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.14 hours
Area (User Defined)	0.260 acres

Computational Time Increment	0.02 hours
Time to Peak (Computed)	1.11 hours
Flow (Peak, Computed)	0.71 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.10 hours
Flow (Peak Interpolated Output)	0.71 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.260 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	976.429 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	976.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.14 hours
Computational Time Increment	0.02 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.12 ft³/s
Unit peak time, Tp	0.09 hours
Unit receding limb, Tr	0.37 hours
Total unit time, Tb	0.46 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	0.110 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.10 hours
Flow (Peak, Computed)	0.32 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.10 hours
Flow (Peak Interpolated Output)	0.32 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.110 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	413.105 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	413.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA19 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.26 ft³/s
Unit peak time, Tp	0.07 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.33 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.280 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.86 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.85 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.280 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,051.539 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,067.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA2 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.53 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.070 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.22 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.21 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.070 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	262.885 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	267.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.41 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.08 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.48 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.10 hours
Flow (Peak Interpolated Output)	0.47 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	600.880 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	601.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.08 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.18 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.22 hours
Total unit time, Tb	0.28 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.170 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.53 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.52 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.170 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	638.434 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	647.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA22 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	8.79 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.10 hours
Area (User Defined)	1.240 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.10 hours
Flow (Peak, Computed)	3.66 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.10 hours
Flow (Peak Interpolated Output)	3.64 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.240 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	4,656.817 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,655.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.10 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA25 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	14.52 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.26 hours
Total unit time, Tb	0.32 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.57 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.10 hours
Flow (Peak Interpolated Output)	1.54 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,952.859 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,952.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA26 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	8.12 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.19 hours
Total unit time, Tb	0.24 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA27
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.770 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	2.38 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	2.36 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.770 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	2,891.731 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,925.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA27
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	43.62 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.16 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,427.089 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,444.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA28 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	11.87 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.240 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.74 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.73 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.240 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	901.319 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	908.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA29 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.33 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.11 hours
Total unit time, Tb	0.14 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.460 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.42 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.40 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.460 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,727.529 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,752.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA30 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	16.08 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.250 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.77 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.76 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.250 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	938.874 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	943.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.96 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.700 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	2.16 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	2.14 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.700 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	2,628.846 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,669.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA32 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	26.43 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	337.995 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	343.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA33 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.13 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.30 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	375.550 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	380.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA34 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.03 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.30 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	375.550 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	376.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA35 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.93 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.130 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.40 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.40 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.130 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	488.215 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	496.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA36 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.84 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.08 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.30 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	375.550 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	381.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA37 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.62 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.330 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.02 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.01 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,239.313 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,254.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	18.70 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.050 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.15 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.050 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	187.775 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	190.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.83 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.080 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.25 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.24 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.080 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	300.440 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	305.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.20 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.09 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.15 ft³/s

Drainage Area	
SCS CN (Composite)	90.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	1.1 in
Maximum Retention (Pervious, 20 percent)	0.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.5 in
Runoff Volume (Pervious)	161.346 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	163.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	4.82 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.07 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.700 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.09 hours
Flow (Peak, Computed)	2.11 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.10 hours
Flow (Peak Interpolated Output)	2.07 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.700 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	2,628.848 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,628.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA45 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.61 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.140 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.43 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.43 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.140 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	525.770 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	534.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA46 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.34 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.82 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.81 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,013.984 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,015.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.20 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.16 hours
Total unit time, Tb	0.20 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.060 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.09 hours
Flow (Peak, Computed)	0.18 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.10 hours
Flow (Peak Interpolated Output)	0.18 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.060 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	225.330 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	225.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.93 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.24 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	337.995 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	340.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.26 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.12 hours
Total unit time, Tb	0.15 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.110 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.34 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.34 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.110 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	413.104 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	418.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA5 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.23 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.04 hours
Area (User Defined)	0.200 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.62 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.61 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.200 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	751.099 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	760.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.04 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.18 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.10 hours
Total unit time, Tb	0.12 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.49 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.48 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	600.880 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	602.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA51 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.29 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.18 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.93 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.92 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,126.649 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,143.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA52 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.98 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.090 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.27 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.090 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	337.995 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	343.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA53 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.25 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.100 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.31 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.30 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.100 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	375.550 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	380.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA54 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.32 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.09 hours
Total unit time, Tb	0.11 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.270 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.84 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.83 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,013.984 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,026.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA55 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	15.30 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.930 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	2.87 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	2.84 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.930 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	3,492.612 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	3,546.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA56 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	37.07 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.09 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.440 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.36 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.35 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.440 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,652.418 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,672.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA57 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	24.93 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	1.070 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	3.28 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	3.24 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.070 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	4,018.382 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,037.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA58 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	25.79 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.16 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.06 hours
Area (User Defined)	0.350 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.09 hours
Flow (Peak, Computed)	1.07 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.05 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.350 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,314.424 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,316.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.06 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.91 ft³/s
Unit peak time, Tp	0.04 hours
Unit receding limb, Tr	0.15 hours
Total unit time, Tb	0.19 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.07 hours
Area (User Defined)	0.160 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.09 hours
Flow (Peak, Computed)	0.48 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.10 hours
Flow (Peak Interpolated Output)	0.47 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.160 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	600.880 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	601.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.07 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.45 ft³/s
Unit peak time, Tp	0.05 hours
Unit receding limb, Tr	0.20 hours
Total unit time, Tb	0.25 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.500 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.55 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.53 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.500 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,877.747 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,900.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA60 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	28.33 ft³/s
Unit peak time, Tp	0.01 hours
Unit receding limb, Tr	0.05 hours
Total unit time, Tb	0.07 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.520 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.60 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.59 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.520 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,952.858 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,982.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA61 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	19.42 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	1.270 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	3.92 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	3.88 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	1.270 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	4,769.482 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,842.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA62 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	48.88 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.330 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.02 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.01 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.330 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,239.314 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,258.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	12.32 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.08 hours
Total unit time, Tb	0.10 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.05 hours
Area (User Defined)	0.230 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.71 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.69 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.230 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	863.764 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	867.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.05 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA7 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.19 ft³/s
Unit peak time, Tp	0.03 hours
Unit receding limb, Tr	0.13 hours
Total unit time, Tb	0.17 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.210 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.65 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.64 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.210 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	788.654 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	801.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.05 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.09 hours
Area (User Defined)	3.890 acres

Computational Time Increment	0.01 hours
Time to Peak (Computed)	2.01 hours
Flow (Peak, Computed)	0.00 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	2.00 hours
Flow (Peak Interpolated Output)	0.00 ft³/s

Drainage Area	
SCS CN (Composite)	62.000
Area (User Defined)	3.890 acres
Maximum Retention (Pervious)	6.1 in
Maximum Retention (Pervious, 20 percent)	1.2 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.0 in
Runoff Volume (Pervious)	1.335 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.09 hours
Computational Time Increment	0.01 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: EDA3 Perv
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	46.97 ft³/s
Unit peak time, Tp	0.06 hours
Unit receding limb, Tr	0.25 hours
Total unit time, Tb	0.31 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.03 hours
Area (User Defined)	0.300 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	0.93 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	0.92 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.300 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,126.649 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,144.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.03 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: Future Imp Road-Basin 6 (S Brunswick)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	12.21 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.07 hours
Total unit time, Tb	0.09 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.25 hours
Area (User Defined)	4.840 acres

Computational Time Increment	0.03 hours
Time to Peak (Computed)	1.17 hours
Flow (Peak, Computed)	10.79 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.15 hours
Flow (Peak Interpolated Output)	10.53 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	4.840 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	18,176.608 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	18,175.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.25 hours
Computational Time Increment	0.03 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: PDA-6 Imp (Plainsboro)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	21.96 ft³/s
Unit peak time, Tp	0.17 hours
Unit receding limb, Tr	0.67 hours
Total unit time, Tb	0.83 hours

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.00 hours
Depth	1.3 in
Time of Concentration (Composite)	0.02 hours
Area (User Defined)	0.380 acres

Computational Time Increment	0.00 hours
Time to Peak (Computed)	1.08 hours
Flow (Peak, Computed)	1.17 ft³/s
Output Increment	0.05 hours
Time to Flow (Peak Interpolated Output)	1.05 hours
Flow (Peak Interpolated Output)	1.16 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.380 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,427.089 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,448.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.02 hours
Computational Time Increment	0.00 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs

Subsection: Unit Hydrograph Summary
Label: PDA8 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	17.84 ft³/s
Unit peak time, Tp	0.02 hours
Unit receding limb, Tr	0.06 hours
Total unit time, Tb	0.08 hours

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WQ Basin Routings

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA1 Imp	WQ	1	1,474.000	1.05	1.18
DA10 Imp	WQ	1	571.000	1.05	0.46
DA11 Imp	WQ	1	565.000	1.05	0.45
DA12A Imp	WQ	1	1,352.000	1.10	1.07
DA13 Imp	WQ	1	343.000	1.05	0.27
DA14 Imp	WQ	1	380.000	1.05	0.30
DA15 Imp	WQ	1	910.000	1.05	0.73
DA16 Imp	WQ	1	2,042.000	1.05	1.64
DA17 Imp	WQ	1	648.000	1.05	0.52
DA18 Imp	WQ	1	976.000	1.10	0.71
DA19 Imp	WQ	1	413.000	1.10	0.32
DA2 Imp	WQ	1	1,067.000	1.05	0.85
DA20 Imp	WQ	1	267.000	1.05	0.21
DA21 Imp	WQ	1	601.000	1.10	0.47
DA22 Imp	WQ	1	647.000	1.05	0.52
DA25 Imp	WQ	1	4,655.000	1.10	3.64
DA26 Imp	WQ	1	1,952.000	1.10	1.54
DA27	WQ	1	2,925.000	1.05	2.36
DA28 Imp	WQ	1	1,444.000	1.05	1.16
DA29 Imp	WQ	1	908.000	1.05	0.73
DA30 Imp	WQ	1	1,752.000	1.05	1.40
DA31 Imp	WQ	1	943.000	1.05	0.76
DA32 Imp	WQ	1	2,669.000	1.05	2.14
DA33 Imp	WQ	1	343.000	1.05	0.27
DA34 Imp	WQ	1	380.000	1.05	0.30
DA35 Imp	WQ	1	376.000	1.05	0.30
DA36 Imp	WQ	1	496.000	1.05	0.40
DA37 Imp	WQ	1	381.000	1.05	0.30
DA4 Imp	WQ	1	1,254.000	1.05	1.01
DA41 Imp	WQ	1	190.000	1.05	0.15
DA42 Imp	WQ	1	305.000	1.05	0.24
DA44 Imp	WQ	1	163.000	1.05	0.15
DA45 Imp	WQ	1	2,628.000	1.10	2.07
DA46 Imp	WQ	1	534.000	1.05	0.43
DA47 Imp	WQ	1	1,015.000	1.05	0.81
DA48 Imp	WQ	1	225.000	1.10	0.18
DA49 Imp	WQ	1	340.000	1.05	0.27
DA5 Imp	WQ	1	418.000	1.05	0.34
DA50 Imp	WQ	1	760.000	1.05	0.61
DA51 Imp	WQ	1	602.000	1.05	0.48
DA52 Imp	WQ	1	1,143.000	1.05	0.92
DA53 Imp	WQ	1	343.000	1.05	0.27
DA54 Imp	WQ	1	380.000	1.05	0.30

WQ Basin Routings

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA55 Imp	WQ	1	1,026.000	1.05	0.83
DA56 Imp	WQ	1	3,546.000	1.05	2.84
DA57 Imp	WQ	1	1,672.000	1.05	1.35
DA58 Imp	WQ	1	4,037.000	1.05	3.24
DA59 Imp	WQ	1	1,316.000	1.05	1.05
DA6 Imp	WQ	1	601.000	1.10	0.47
DA60 Imp	WQ	1	1,900.000	1.05	1.53
DA61 Imp	WQ	1	1,982.000	1.05	1.59
DA62 Imp	WQ	1	4,842.000	1.05	3.88
DA63 Imp	WQ	1	1,258.000	1.05	1.01
DA7 Imp	WQ	1	867.000	1.05	0.69
DA9 Imp	WQ	1	801.000	1.05	0.64
EDA3 Perv	WQ	1	1.000	2.00	0.00
Future Imp Road-Basin 6 (S Brunswick)	WQ	1	1,144.000	1.05	0.92
PDA-6 Imp (Plainsboro)	WQ	1	18,175.000	1.15	10.53
PDA8 Imp	WQ	1	1,448.000	1.05	1.16

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
J 24	WQ	1	45.000	3.45	0.00
POI-1 Ex FE Barclay Square	WQ	1	0.000	0.00	0.00
POI-2 (Harry's Brook)	WQ	1	45.000	2.65	0.00
POI-3 Barclay Square Ex	WQ	1	1.000	2.00	0.00

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
Bio1 (IN)	WQ	1	1,490.000	1.05	1.18	(N/A)	(N/A)
Bio1 (OUT)	WQ	1	0.000	0.00	0.00	77.24	1,164.000
Bio12 (IN)	WQ	1	1,364.000	1.10	1.07	(N/A)	(N/A)
Bio12 (OUT)	WQ	1	0.000	0.00	0.00	85.46	1,132.000
Bio25 (IN)	WQ	1	4,655.000	1.10	3.64	(N/A)	(N/A)
Bio25 (OUT)	WQ	1	0.000	0.00	0.00	100.34	4,643.000

WQ Basin Routings

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
Bio26 (IN)	WQ	1	1,952.000	1.10	1.54	(N/A)	(N/A)
Bio26 (OUT)	WQ	1	0.000	0.00	0.00	97.36	1,713.000
Bio28 (IN)	WQ	1	1,444.000	1.05	1.16	(N/A)	(N/A)
Bio28 (OUT)	WQ	1	0.000	0.00	0.00	91.34	1,444.000
Bio35 (IN)	WQ	1	379.000	1.05	0.30	(N/A)	(N/A)
Bio35 (OUT)	WQ	1	0.000	0.00	0.00	103.48	327.000
Bio36 (IN)	WQ	1	496.000	1.05	0.40	(N/A)	(N/A)
Bio36 (OUT)	WQ	1	0.000	0.00	0.00	98.58	493.000
Bio45 (IN)	WQ	1	4,103.000	1.10	2.29	(N/A)	(N/A)
Bio45 (OUT)	WQ	1	0.000	0.00	0.00	96.82	4,089.000
Bio51 (IN)	WQ	1	602.000	1.05	0.48	(N/A)	(N/A)
Bio51 (OUT)	WQ	1	0.000	0.00	0.00	102.22	599.000
Bio52 (IN)	WQ	1	1,143.000	1.05	0.92	(N/A)	(N/A)
Bio52 (OUT)	WQ	1	1.000	2.00	0.00	100.83	1,064.000
Bio53 (IN)	WQ	1	343.000	1.05	0.27	(N/A)	(N/A)
Bio53 (OUT)	WQ	1	0.000	0.00	0.00	104.91	335.000
Bio58 (IN)	WQ	1	4,064.000	1.05	3.20	(N/A)	(N/A)
Bio58 (OUT)	WQ	1	0.000	0.00	0.00	106.98	4,043.000
EX. BASIN 6 (IN)	WQ	1	19,320.000	1.15	10.88	(N/A)	(N/A)
EX. BASIN 6 (OUT)	WQ	1	0.000	0.00	0.00	89.34	19,283.000
Infil29 (IN)	WQ	1	908.000	1.05	0.73	(N/A)	(N/A)
Infil29 (OUT)	WQ	1	0.000	0.00	0.00	94.30	858.000
Infil30 (IN)	WQ	1	1,756.000	1.05	1.38	(N/A)	(N/A)
Infil30 (OUT)	WQ	1	45.000	3.45	0.00	91.47	1,753.000
Infil8 (IN)	WQ	1	1,448.000	1.05	1.16	(N/A)	(N/A)
Infil8 (OUT)	WQ	1	15.000	2.00	0.00	109.79	1,307.000
UGB10 (IN)	WQ	1	571.000	1.05	0.46	(N/A)	(N/A)
UGB10 (OUT)	WQ	1	0.000	0.00	0.00	106.46	571.000
UGB11 (IN)	WQ	1	565.000	1.05	0.45	(N/A)	(N/A)
UGB11 (OUT)	WQ	1	0.000	0.00	0.00	84.75	441.000
UGB13 (IN)	WQ	1	342.000	1.05	0.27	(N/A)	(N/A)
UGB13 (OUT)	WQ	1	0.000	0.00	0.00	86.87	343.000
UGB14 (IN)	WQ	1	381.000	1.05	0.30	(N/A)	(N/A)
UGB14 (OUT)	WQ	1	0.000	0.00	0.00	87.19	380.000
UGB15 (IN)	WQ	1	913.000	1.05	0.72	(N/A)	(N/A)

WQ Basin Routings

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB15 (OUT)	WQ	1	0.000	0.00	0.00	92.33	911.000
UGB16 (IN)	WQ	1	2,053.000	1.05	1.62	(N/A)	(N/A)
UGB16 (OUT)	WQ	1	0.000	0.00	0.00	94.51	2,044.000
UGB17 (IN)	WQ	1	648.000	1.05	0.52	(N/A)	(N/A)
UGB17 (OUT)	WQ	1	0.000	0.00	0.00	110.64	647.000
UGB18 (IN)	WQ	1	977.000	1.10	0.71	(N/A)	(N/A)
UGB18 (OUT)	WQ	1	9.000	2.15	0.00	95.25	974.000
UGB19 (IN)	WQ	1	414.000	1.10	0.32	(N/A)	(N/A)
UGB19 (OUT)	WQ	1	0.000	0.00	0.00	95.06	296.000
UGB2 (IN)	WQ	1	1,066.000	1.05	0.84	(N/A)	(N/A)
UGB2 (OUT)	WQ	1	0.000	0.00	0.00	85.86	1,067.000
UGB20 (IN)	WQ	1	272.000	1.05	0.21	(N/A)	(N/A)
UGB20 (OUT)	WQ	1	0.000	0.00	0.00	97.16	134.000
UGB21 (IN)	WQ	1	601.000	1.10	0.47	(N/A)	(N/A)
UGB21 (OUT)	WQ	1	3.000	2.10	0.00	99.25	600.000
UGB22 (IN)	WQ	1	647.000	1.05	0.52	(N/A)	(N/A)
UGB22 (OUT)	WQ	1	0.000	0.00	0.00	107.16	646.000
UGB27 (IN)	WQ	1	2,925.000	1.05	2.36	(N/A)	(N/A)
UGB27 (OUT)	WQ	1	0.000	0.00	0.00	100.72	2,765.000
UGB3 (IN)	WQ	1	0.000	0.00	0.00	(N/A)	(N/A)
UGB3 (OUT)	WQ	1	0.000	0.00	0.00	85.50	0.000
UGB31 (IN)	WQ	1	943.000	1.05	0.76	(N/A)	(N/A)
UGB31 (OUT)	WQ	1	4.000	2.10	0.00	93.18	943.000
UGB32 (IN)	WQ	1	2,669.000	1.05	2.14	(N/A)	(N/A)
UGB32 (OUT)	WQ	1	0.000	0.00	0.00	110.32	2,669.000
UGB33 (IN)	WQ	1	343.000	1.05	0.27	(N/A)	(N/A)
UGB33 (OUT)	WQ	1	0.000	0.00	0.00	106.20	342.000
UGB34 (IN)	WQ	1	380.000	1.05	0.30	(N/A)	(N/A)
UGB34 (OUT)	WQ	1	0.000	0.00	0.00	109.74	380.000
UGB37 (IN)	WQ	1	381.000	1.05	0.30	(N/A)	(N/A)

WQ Basin Routings

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB37 (OUT)	WQ	1	0.000	0.00	0.00	103.92	380.000
UGB4 (IN)	WQ	1	1,254.000	1.05	1.01	(N/A)	(N/A)
UGB4 (OUT)	WQ	1	0.000	0.00	0.00	85.65	1,056.000
UGB41 (IN)	WQ	1	190.000	1.05	0.15	(N/A)	(N/A)
UGB41 (OUT)	WQ	1	0.000	0.00	0.00	104.77	190.000
UGB42 (IN)	WQ	1	305.000	1.05	0.24	(N/A)	(N/A)
UGB42 (OUT)	WQ	1	0.000	0.00	0.00	95.38	304.000
UGB43 (IN)	WQ	1	0.000	0.00	0.00	(N/A)	(N/A)
UGB43 (OUT)	WQ	1	0.000	0.00	0.00	98.00	0.000
UGB44 (IN)	WQ	1	163.000	1.05	0.15	(N/A)	(N/A)
UGB44 (OUT)	WQ	1	0.000	0.00	0.00	101.14	122.000
UGB46 (IN)	WQ	1	534.000	1.05	0.43	(N/A)	(N/A)
UGB46 (OUT)	WQ	1	2.000	2.05	0.00	104.34	533.000
UGB47 (IN)	WQ	1	1,015.000	1.05	0.81	(N/A)	(N/A)
UGB47 (OUT)	WQ	1	0.000	0.00	0.00	108.83	1,015.000
UGB48 (IN)	WQ	1	225.000	1.10	0.18	(N/A)	(N/A)
UGB48 (OUT)	WQ	1	3.000	2.05	0.00	101.70	224.000
UGB49 (IN)	WQ	1	340.000	1.05	0.27	(N/A)	(N/A)
UGB49 (OUT)	WQ	1	0.000	0.00	0.00	103.64	340.000
UGB5 (IN)	WQ	1	414.000	1.00	0.33	(N/A)	(N/A)
UGB5 (OUT)	WQ	1	0.000	0.00	0.00	94.66	362.000
UGB50 (IN)	WQ	1	760.000	1.05	0.61	(N/A)	(N/A)
UGB50 (OUT)	WQ	1	0.000	0.00	0.00	102.80	760.000
UGB54 (IN)	WQ	1	380.000	1.05	0.30	(N/A)	(N/A)
UGB54 (OUT)	WQ	1	2.000	2.05	0.00	99.63	380.000
UGB55 (IN)	WQ	1	1,026.000	1.05	0.83	(N/A)	(N/A)
UGB55 (OUT)	WQ	1	0.000	0.00	0.00	106.18	1,025.000
UGB56 (IN)	WQ	1	3,546.000	1.05	2.84	(N/A)	(N/A)
UGB56 (OUT)	WQ	1	0.000	0.00	0.00	110.41	3,545.000
UGB57 (IN)	WQ	1	1,672.000	1.05	1.35	(N/A)	(N/A)

WQ Basin Routings

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB57 (OUT)	WQ	1	0.000	0.00	0.00	111.45	1,670.000
UGB59 (IN)	WQ	1	1,326.000	1.05	1.04	(N/A)	(N/A)
UGB59 (OUT)	WQ	1	0.000	0.00	0.00	104.07	1,318.000
UGB6 (IN)	WQ	1	605.000	1.10	0.47	(N/A)	(N/A)
UGB6 (OUT)	WQ	1	0.000	0.00	0.00	94.85	540.000
UGB60 (IN)	WQ	1	1,900.000	1.05	1.53	(N/A)	(N/A)
UGB60 (OUT)	WQ	1	0.000	0.00	0.00	111.50	1,898.000
UGB61 (IN)	WQ	1	1,982.000	1.05	1.59	(N/A)	(N/A)
UGB61 (OUT)	WQ	1	1,434.000	1.25	0.34	108.61	1,365.000
UGB62 (IN)	WQ	1	4,842.000	1.05	3.88	(N/A)	(N/A)
UGB62 (OUT)	WQ	1	21.000	2.10	0.00	108.66	4,842.000
UGB63 (IN)	WQ	1	1,258.000	1.05	1.01	(N/A)	(N/A)
UGB63 (OUT)	WQ	1	0.000	0.00	0.00	104.45	1,257.000
UGB7 (IN)	WQ	1	867.000	1.05	0.69	(N/A)	(N/A)
UGB7 (OUT)	WQ	1	0.000	1.85	0.00	99.65	742.000
UGB9 (IN)	WQ	1	801.000	1.05	0.64	(N/A)	(N/A)
UGB9 (OUT)	WQ	1	0.000	0.00	0.00	101.25	801.000

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio1
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
77.00	0.00	0.000	0.110	0.00	0.00	0.00
77.10	0.00	480.991	0.111	0.08	0.08	5.43
77.20	0.00	965.654	0.112	0.08	0.08	10.81
77.30	0.00	1,454.003	0.113	0.09	0.09	16.24
77.40	0.00	1,946.052	0.113	0.09	0.09	21.71
77.50	0.00	2,441.815	0.114	0.09	0.09	27.22
77.52	0.00	2,541.414	0.114	0.09	0.09	28.32
77.60	0.03	2,941.305	0.115	0.09	0.12	32.80
77.70	0.17	3,444.537	0.116	0.09	0.26	38.53
77.80	0.39	3,951.524	0.117	0.09	0.48	44.38
77.90	0.68	4,462.281	0.118	0.09	0.77	50.35
78.00	1.03	4,976.822	0.119	0.09	1.12	56.41
78.10	1.41	5,495.160	0.119	0.09	1.50	62.56
78.20	1.79	6,017.309	0.120	0.09	1.88	68.74
78.30	2.02	6,543.284	0.121	0.09	2.11	74.81
78.40	2.22	7,073.099	0.122	0.09	2.32	80.91
78.50	2.41	7,606.767	0.123	0.09	2.51	87.03
78.60	2.59	8,144.302	0.124	0.09	2.68	93.17
78.70	2.75	8,685.718	0.125	0.09	2.84	99.35
78.80	2.90	9,231.030	0.126	0.10	3.00	105.57
78.90	3.05	9,780.251	0.127	0.10	3.15	111.82
79.00	3.19	10,333.395	0.127	0.10	3.29	118.10
79.10	3.32	10,890.476	0.128	0.10	3.42	124.43
79.20	3.45	11,451.508	0.129	0.10	3.55	130.79
79.30	3.58	12,016.506	0.130	0.10	3.68	137.19
79.40	3.70	12,585.482	0.131	0.10	3.80	143.64
79.50	3.81	13,158.451	0.132	0.10	3.91	150.12
79.60	3.93	13,735.428	0.133	0.10	4.03	156.64

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio1
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
79.70	4.04	14,316.425	0.134	0.10	4.14	163.21
79.80	4.14	14,901.457	0.135	0.10	4.24	169.82
79.90	4.25	15,490.538	0.136	0.10	4.35	176.47
80.00	4.35	16,083.682	0.137	0.10	4.45	183.16
80.10	4.45	16,680.902	0.138	0.10	4.55	189.89
80.20	4.54	17,282.213	0.139	0.10	4.65	196.67
80.30	4.64	17,887.629	0.139	0.11	4.74	203.50
80.40	4.73	18,497.164	0.140	0.11	4.84	210.36
80.50	4.82	19,110.831	0.141	0.11	4.93	217.27
80.60	4.91	19,728.645	0.142	0.11	5.02	224.23
80.70	5.00	20,350.619	0.143	0.11	5.11	231.23
80.80	5.09	20,976.768	0.144	0.11	5.20	238.27
80.90	5.17	21,607.105	0.145	0.11	5.28	245.36
81.00	5.26	22,241.644	0.146	0.11	5.37	252.50
81.10	5.34	22,880.400	0.147	0.11	5.45	259.68
81.20	5.42	23,523.387	0.148	0.11	5.53	266.90
81.30	5.50	24,170.617	0.149	0.11	5.61	274.17
81.40	5.58	24,822.106	0.150	0.11	5.69	281.49
81.50	5.66	25,477.867	0.151	0.11	5.77	288.86
81.60	5.73	26,137.914	0.152	0.11	5.85	296.27
81.70	5.81	26,802.262	0.153	0.12	5.92	303.73
81.80	5.88	27,470.923	0.154	0.12	6.00	311.23
81.90	5.96	28,143.913	0.155	0.12	6.07	318.78
82.00	6.03	28,821.245	0.156	0.12	6.15	326.38
82.10	6.10	29,502.932	0.157	0.12	6.22	334.03
82.20	6.17	30,188.990	0.158	0.12	6.29	341.72
82.30	6.24	30,879.432	0.159	0.12	6.36	349.47
82.40	6.31	31,574.271	0.160	0.12	6.43	357.26
82.50	6.38	32,273.522	0.161	0.12	6.50	365.10
82.60	6.45	32,977.199	0.162	0.12	6.57	372.98
82.70	6.52	33,685.316	0.163	0.12	6.64	380.92
82.80	6.58	34,397.887	0.164	0.12	6.71	388.90
82.90	6.65	35,114.925	0.165	0.12	6.77	396.94
83.00	6.71	35,836.445	0.166	0.13	6.84	405.02
83.10	6.78	36,562.461	0.167	0.13	6.90	413.15
83.20	6.84	37,292.986	0.168	0.13	6.97	421.34
83.30	6.91	38,028.035	0.169	0.13	7.03	429.57
83.40	6.97	38,767.621	0.170	0.13	7.10	437.85
83.50	7.03	39,511.759	0.171	0.13	7.16	446.18
83.60	7.09	40,260.462	0.172	0.13	7.22	454.56
83.70	7.15	41,013.744	0.173	0.13	7.28	462.99
83.80	7.21	41,771.620	0.175	0.13	7.35	471.48
83.90	7.27	42,534.103	0.176	0.13	7.41	480.01

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio1
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
84.00	7.33	43,301.208	0.177	0.13	7.47	488.59
84.10	7.77	44,072.947	0.178	0.13	7.91	497.61
84.20	8.53	44,849.336	0.179	0.14	8.66	506.99
84.30	9.48	45,630.388	0.180	0.14	9.62	516.62
84.40	10.60	46,416.118	0.181	0.14	10.74	526.48
84.50	11.87	47,206.538	0.182	0.14	12.01	536.52
84.60	13.26	48,001.663	0.183	0.14	13.40	546.75
84.70	14.77	48,801.508	0.184	0.14	14.91	557.15
84.75	15.56	49,203.204	0.185	0.14	15.70	562.40
84.80	16.55	49,606.085	0.185	0.14	16.69	567.87
84.90	18.97	50,415.409	0.186	0.14	19.11	579.28
85.00	21.78	51,229.495	0.187	0.14	21.92	591.14
85.10	24.91	52,048.355	0.189	0.14	25.05	603.37
85.20	28.32	52,872.003	0.190	0.14	28.46	615.93
85.30	31.98	53,700.455	0.191	0.14	32.12	628.79
85.40	35.86	54,533.724	0.192	0.15	36.01	641.94
85.50	39.97	55,371.823	0.193	0.15	40.11	655.35
85.60	44.27	56,214.766	0.194	0.15	44.42	669.03
85.70	48.77	57,062.569	0.195	0.15	48.92	682.95
85.80	53.45	57,915.244	0.196	0.15	53.60	697.11
85.90	58.31	58,772.806	0.197	0.15	58.46	711.49
86.00	63.34	59,635.268	0.199	0.15	63.49	726.11
86.10	72.44	60,502.644	0.200	0.15	72.59	744.84
86.20	81.69	61,374.949	0.201	0.15	81.84	763.79
86.30	89.80	62,252.197	0.202	0.15	89.95	781.64
86.40	96.75	63,134.401	0.203	0.15	96.91	798.40
86.50	103.85	64,021.575	0.204	0.15	104.01	815.36
86.60	110.00	64,913.733	0.205	0.16	110.15	831.42
86.70	116.28	65,810.890	0.207	0.16	116.43	847.67
86.80	122.69	66,713.059	0.208	0.16	122.85	864.11
86.90	129.24	67,620.254	0.209	0.16	129.40	880.74
87.00	135.92	68,532.489	0.210	0.16	136.08	897.55
87.10	142.63	69,451.562	0.212	0.16	142.79	914.47
87.20	149.45	70,379.285	0.214	0.16	149.62	931.61
87.30	156.40	71,315.700	0.216	0.16	156.57	948.96
87.40	163.47	72,260.847	0.218	0.16	163.64	966.54
87.50	170.66	73,214.767	0.220	0.17	170.83	984.33

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Bio1 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.7500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	77.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.18 ft³/s	Time to Peak (Flow, In)	1.05 hours
Infiltration (Peak)	0.08 ft³/s	Time to Peak (Infiltration)	1.80 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	77.24 ft
Volume (Peak)	1,163.702 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,490.000 ft³
Volume (Total Infiltration)	1,490.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Bio1 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Bio1'

Upstream Link	Upstream Node
Out7	UGB7
Out 12	Bio12
<Catchment to Outflow Node>	DA1 Imp
Out5	UGB5
Out11	UGB11
Out4	UGB4
Out8	Infil8

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out7	0.147	1.85	0.00
Flow (From)	Out 12	0.000	0.00	0.00
Flow (From)	DA1 Imp	1,474.336	1.05	1.18
Flow (From)	Out5	0.000	0.00	0.00
Flow (From)	Out11	0.000	0.00	0.00
Flow (From)	Out4	0.000	0.00	0.00
Flow (From)	Out8	15.132	2.00	0.00
Flow (In)	Bio1	1,489.616	1.05	1.18

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio12
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
85.25	0.00	0.000	0.125	0.00	0.00	0.00
85.50	0.00	1,370.256	0.127	0.08	0.08	15.31
85.75	0.00	2,758.602	0.128	0.08	0.08	30.74
86.00	0.00	4,165.158	0.130	0.09	0.09	46.36
86.15	0.00	5,019.397	0.131	0.09	0.09	55.86
86.25	0.14	5,594.260	0.132	0.09	0.23	62.39
86.50	0.93	7,050.336	0.135	0.09	1.02	79.36
86.75	2.09	8,533.636	0.137	0.09	2.18	97.00
87.00	3.53	10,044.413	0.140	0.09	3.62	115.22
87.25	6.69	11,595.481	0.145	0.09	6.79	135.63
87.50	11.30	13,200.090	0.150	0.10	11.40	158.07
87.75	18.50	14,859.150	0.155	0.10	18.60	183.70
88.00	27.66	16,573.568	0.160	0.10	27.76	211.91
88.25	37.72	18,342.525	0.165	0.11	37.83	241.64
88.50	49.99	20,165.131	0.170	0.11	50.10	274.16
88.75	63.46	22,042.186	0.175	0.11	63.57	308.49
89.00	78.02	23,974.493	0.180	0.12	78.13	344.52
89.25	93.58	25,961.321	0.185	0.12	93.70	382.16
89.50	110.10	28,001.882	0.190	0.12	110.22	421.35
89.75	127.50	30,096.892	0.195	0.13	127.63	462.04
90.00	145.76	32,247.070	0.200	0.13	145.89	504.19

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Bio12 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.6500 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.25 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.07 ft³/s	Time to Peak (Flow, In)	1.10 hours
Infiltration (Peak)	0.07 ft³/s	Time to Peak (Infiltration)	1.80 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	85.46 ft
Volume (Peak)	1,131.646 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,364.000 ft³
Volume (Total Infiltration)	1,364.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Bio12 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Bio12'

Upstream Link	Upstream Node
Out53	Bio53
Out3	UGB3
Out52	Bio52
Out55	UGB55
Out18	UGB18
Out54	UGB54
Out2	UGB2
<Catchment to Outflow Node>	DA12A Imp
Out22	UGB22
Out41	UGB41

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out53	0.000	0.00	0.00
Flow (From)	Out3	0.000	0.00	0.00
Flow (From)	Out52	0.854	2.00	0.00
Flow (From)	Out55	0.000	0.00	0.00
Flow (From)	Out18	8.940	2.15	0.00
Flow (From)	Out54	2.002	2.05	0.00
Flow (From)	Out2	0.000	0.00	0.00
Flow (From)	DA12A Imp	1,351.793	1.10	1.07
Flow (From)	Out22	0.000	0.00	0.00
Flow (From)	Out41	0.000	0.00	0.00
Flow (In)	Bio12	1,363.590	1.10	1.07

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio25
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.00	0.00	0.000	0.310	0.00	0.00	0.00
100.25	0.00	3,428.974	0.320	0.00	0.00	38.10
100.50	0.00	6,965.196	0.330	0.00	0.00	77.39
100.75	0.00	10,610.318	0.340	0.00	0.00	117.89
101.00	0.00	14,365.992	0.350	0.00	0.00	159.62
101.25	0.00	18,230.715	0.360	0.00	0.00	202.56
101.35	0.00	19,806.601	0.364	0.00	0.00	220.07
101.50	0.03	22,202.865	0.370	0.00	0.03	246.73
101.75	0.12	26,283.915	0.380	0.00	0.12	292.17
102.00	0.17	30,475.338	0.390	0.00	0.17	338.79
102.25	0.77	34,775.780	0.400	0.00	0.77	387.17
102.50	1.83	39,183.794	0.410	0.00	1.83	437.21
102.75	3.19	43,700.708	0.420	0.00	3.19	488.75
103.00	4.79	48,327.850	0.430	0.00	4.79	541.77
103.25	6.60	53,077.054	0.442	0.00	6.60	596.35
103.50	8.60	57,960.510	0.455	0.00	8.60	652.61
103.75	10.77	62,980.092	0.467	0.00	10.77	710.55
104.00	13.10	68,137.670	0.480	0.00	13.10	770.19

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Bio25 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.64 ft³/s	Time to Peak (Flow, In)	1.10 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	100.34 ft
Volume (Peak)	4,642.731 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,655.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	4,643.000 ft³
Volume (Unrouted)	-12.000 ft³
Error (Mass Balance)	0.3 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Bio25 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Bio25'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA25 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA25 Imp	4,654.960	1.10	3.64
Flow (In)	Bio25	4,654.960	1.10	3.64

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio26
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
97.00	0.00	0.000	0.100	0.00	0.00	0.00
97.25	0.00	1,151.333	0.112	0.06	0.06	12.85
97.50	0.00	2,431.915	0.124	0.06	0.06	27.08
97.75	0.00	3,848.622	0.137	0.07	0.07	42.83
97.80	0.00	4,148.903	0.139	0.07	0.07	46.17
98.00	0.27	5,408.330	0.150	0.08	0.34	60.44
98.25	0.91	7,105.820	0.162	0.08	0.99	79.94
98.50	1.76	8,934.548	0.174	0.09	1.84	101.12
98.75	3.34	10,899.402	0.187	0.09	3.43	124.54
99.00	5.53	13,005.267	0.200	0.10	5.64	150.14
99.25	8.16	15,222.916	0.207	0.10	8.27	177.41
99.50	11.15	17,520.814	0.215	0.11	11.26	205.93
99.75	14.46	19,900.386	0.222	0.11	14.57	235.69
100.00	18.06	22,363.060	0.230	0.12	18.17	266.65
100.25	21.92	24,921.454	0.240	0.12	22.04	298.95
100.50	26.04	27,588.747	0.250	0.13	26.16	332.71

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Bio26 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	97.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.54 ft³/s	Time to Peak (Flow, In)	1.10 hours
Infiltration (Peak)	0.06 ft³/s	Time to Peak (Infiltration)	1.85 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	97.36 ft
Volume (Peak)	1,713.369 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,952.000 ft³
Volume (Total Infiltration)	1,951.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Bio26 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Bio26'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA26 Imp
Out27	UGB27

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA26 Imp	1,952.040	1.10	1.54
Flow (From)	Out27	0.000	0.00	0.00
Flow (In)	Bio26	1,952.040	1.10	1.54

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio28
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
91.00	0.00	0.000	0.095	0.00	0.00	0.00
91.05	0.00	207.698	0.096	0.00	0.00	2.31
91.10	0.00	416.975	0.096	0.00	0.00	4.63
91.15	0.00	627.838	0.097	0.00	0.00	6.98
91.20	0.00	840.293	0.098	0.00	0.00	9.34
91.25	0.00	1,054.345	0.099	0.00	0.00	11.71
91.30	0.00	1,270.001	0.099	0.00	0.00	14.11
91.35	0.00	1,487.267	0.100	0.00	0.00	16.53
91.40	0.00	1,706.148	0.101	0.00	0.00	18.96
91.45	0.00	1,926.650	0.102	0.00	0.00	21.41
91.50	0.00	2,148.780	0.102	0.00	0.00	23.88
91.55	0.04	2,372.544	0.103	0.00	0.04	26.40
91.60	0.12	2,597.947	0.104	0.00	0.12	28.98
91.65	0.22	2,824.995	0.105	0.00	0.22	31.61
91.70	0.34	3,053.695	0.105	0.00	0.34	34.27
91.75	0.47	3,284.053	0.106	0.00	0.47	36.96
91.80	0.62	3,516.073	0.107	0.00	0.62	39.68
91.85	0.78	3,749.764	0.108	0.00	0.78	42.44
91.90	0.95	3,985.129	0.108	0.00	0.95	45.23
91.95	1.13	4,222.176	0.109	0.00	1.13	48.05
92.00	1.33	4,460.911	0.110	0.00	1.33	50.89
92.05	1.53	4,701.282	0.111	0.00	1.53	53.77
92.10	1.74	4,943.240	0.111	0.00	1.74	56.67
92.15	1.97	5,186.790	0.112	0.00	1.97	59.60
92.20	2.20	5,431.937	0.113	0.00	2.20	62.55
92.25	2.44	5,678.686	0.114	0.00	2.44	65.53
92.30	2.68	5,927.042	0.114	0.00	2.68	68.54
92.35	2.93	6,177.011	0.115	0.00	2.93	71.56
92.40	3.18	6,428.598	0.116	0.00	3.18	74.61

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio28
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
92.45	3.44	6,681.808	0.117	0.00	3.44	77.68
92.50	3.70	6,936.646	0.117	0.00	3.70	80.77
92.55	3.97	7,193.118	0.118	0.00	3.97	83.89
92.60	4.24	7,451.228	0.119	0.00	4.24	87.03
92.65	4.52	7,710.982	0.120	0.00	4.52	90.20
92.70	4.80	7,972.386	0.120	0.00	4.80	93.38
92.75	5.09	8,235.444	0.121	0.00	5.09	96.60
92.80	5.39	8,500.161	0.122	0.00	5.39	99.83
92.85	5.68	8,766.544	0.123	0.00	5.68	103.09
92.90	5.99	9,034.596	0.123	0.00	5.99	106.37
92.95	6.30	9,304.323	0.124	0.00	6.30	109.68
93.00	6.61	9,575.731	0.125	0.00	6.61	113.01
93.05	6.93	9,848.879	0.126	0.00	6.93	116.36
93.10	7.25	10,123.824	0.127	0.00	7.25	119.74
93.15	7.58	10,400.573	0.127	0.00	7.58	123.14
93.20	7.91	10,679.133	0.128	0.00	7.91	126.57
93.25	8.25	10,959.508	0.129	0.00	8.25	130.02
93.30	8.59	11,241.705	0.130	0.00	8.59	133.50
93.35	8.94	11,525.730	0.131	0.00	8.94	137.00
93.40	9.32	11,811.589	0.132	0.00	9.32	140.56
93.45	9.64	12,099.287	0.133	0.00	9.64	144.07
93.50	10.00	12,388.830	0.133	0.00	10.00	147.65
93.55	10.36	12,680.225	0.134	0.00	10.36	151.25
93.60	10.72	12,973.476	0.135	0.00	10.72	154.87
93.65	11.09	13,268.591	0.136	0.00	11.09	158.52
93.70	11.46	13,565.575	0.137	0.00	11.46	162.19
93.75	11.84	13,864.434	0.138	0.00	11.84	165.89
93.80	12.22	14,165.174	0.139	0.00	12.22	169.61
93.85	12.60	14,467.800	0.139	0.00	12.60	173.35
93.90	12.98	14,772.319	0.140	0.00	12.98	177.12
93.95	13.37	15,078.737	0.141	0.00	13.37	180.91
94.00	13.76	15,387.058	0.142	0.00	13.76	184.73
94.05	14.15	15,697.286	0.143	0.00	14.15	188.57
94.10	14.55	16,009.422	0.144	0.00	14.55	192.43
94.15	14.95	16,323.470	0.145	0.00	14.95	196.32
94.20	15.35	16,639.439	0.146	0.00	15.35	200.23
94.25	15.75	16,957.332	0.146	0.00	15.75	204.16
94.30	16.15	17,277.156	0.147	0.00	16.15	208.12
94.35	16.56	17,598.917	0.148	0.00	16.56	212.10
94.40	16.96	17,922.621	0.149	0.00	16.96	216.10
94.45	17.36	18,248.273	0.150	0.00	17.36	220.12
94.50	17.77	18,575.879	0.151	0.00	17.77	224.16
94.55	18.16	18,905.446	0.152	0.00	18.16	228.22

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio28
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
94.60	18.59	19,236.979	0.153	0.00	18.59	232.33
94.65	18.98	19,570.484	0.154	0.00	18.98	236.43
94.70	19.37	19,905.966	0.154	0.00	19.37	240.55
94.75	19.72	20,243.432	0.155	0.00	19.72	244.65
94.80	19.92	20,582.887	0.156	0.00	19.92	248.62
94.85	20.44	20,924.338	0.157	0.00	20.44	252.93
94.90	20.96	21,267.790	0.158	0.00	20.96	257.27
94.95	21.49	21,613.249	0.159	0.00	21.49	261.64
95.00	22.02	21,960.720	0.160	0.00	22.02	266.03

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Bio28 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	91.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.16 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	91.34 ft
Volume (Peak)	1,443.615 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,444.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	1,444.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Bio28 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Bio28'

Upstream Link	Upstream Node
Out29	Infil29
<Catchment to Outflow Node>	DA28 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out29	0.000	0.00	0.00
Flow (From)	DA28 Imp	1,443.745	1.05	1.16
Flow (In)	Bio28	1,443.745	1.05	1.16

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: Bio35
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	103.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	1.80	103.48	327.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	1.05	0.30	0.00	0.00
Infiltration...	1.80	0.00	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	379.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	376.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	379.000 ft³
Volume (Total Out ICPM)	376.000 ft³
Volume (Ending)	0.000 ft³
Elevation (Ending)	103.40 ft
Difference	2.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.6 %

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio36
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.017	0.00	0.00	0.00
98.25	0.00	196.301	0.019	0.00	0.00	2.18
98.50	0.00	415.808	0.021	0.00	0.00	4.62
98.75	0.00	659.817	0.024	0.00	0.00	7.33
99.00	0.38	929.626	0.026	0.00	0.38	10.70
99.25	1.06	1,224.259	0.028	0.00	1.06	14.66
99.50	1.95	1,542.487	0.030	0.00	1.95	19.09
99.75	3.00	1,885.217	0.033	0.00	3.00	23.95
100.00	4.19	2,253.359	0.035	0.00	4.19	29.23
100.25	5.51	2,648.631	0.038	0.00	5.51	34.94
100.50	6.95	3,072.830	0.040	0.00	6.95	41.09
100.75	8.49	3,526.976	0.043	0.00	8.49	47.67
101.00	10.13	4,012.091	0.046	0.00	10.13	54.70
101.25	11.86	4,532.251	0.050	0.00	11.86	62.22
101.50	13.68	5,091.810	0.053	0.00	13.68	70.26
101.75	15.59	5,692.207	0.057	0.00	15.59	78.84
102.00	17.58	6,334.880	0.061	0.00	17.58	87.96

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Bio36 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.40 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	98.58 ft
Volume (Peak)	492.773 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	496.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	493.000 ft³
Volume (Unrouted)	-3.000 ft³
Error (Mass Balance)	0.6 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Bio36 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Bio36'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA36 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA36 Imp	495.531	1.05	0.40
Flow (In)	Bio36	495.531	1.05	0.40

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: Bio45
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	96.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

Maximum Storage		
Time to Peak (hours)	Elevation (ft)	Volume (ft³)
46.55	96.82	4,089.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.10	2.29	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	4,103.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	4,103.000 ft³
Volume (Total Out ICPM)	0.000 ft³
Volume (Ending)	4,089.000 ft³
Elevation (Ending)	96.82 ft
Difference	14.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.3 %

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio51
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
102.00	0.00	0.000	0.060	0.00	0.00	0.00
102.25	0.00	678.996	0.065	0.00	0.00	7.54
102.50	0.00	1,410.488	0.070	0.00	0.00	15.67
102.75	0.00	2,196.429	0.075	0.00	0.00	24.40
103.00	0.00	3,038.775	0.080	0.00	0.00	33.76
103.25	0.56	3,928.393	0.083	0.00	0.56	44.21
103.50	1.59	4,855.357	0.087	0.00	1.59	55.54
103.75	2.92	5,820.437	0.090	0.00	2.92	67.59
104.00	4.50	6,824.400	0.094	0.00	4.50	80.33
104.25	6.29	7,869.127	0.098	0.00	6.29	93.72
104.50	8.27	8,956.558	0.102	0.00	8.27	107.78
104.75	10.42	10,087.550	0.106	0.00	10.42	122.50
105.00	12.73	11,262.957	0.110	0.00	12.73	137.87
105.25	15.19	12,499.645	0.117	0.00	15.19	154.07
105.50	17.79	13,815.549	0.125	0.00	17.79	171.29
105.75	20.52	15,213.129	0.132	0.00	20.52	189.56
106.00	23.38	16,694.842	0.140	0.00	23.38	208.88
106.25	26.37	18,246.354	0.145	0.00	26.37	229.10
106.50	29.47	19,852.316	0.150	0.00	29.47	250.05

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Bio51 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.48 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	102.22 ft
Volume (Peak)	599.173 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	602.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	599.000 ft³
Volume (Unrouted)	-3.000 ft³
Error (Mass Balance)	0.4 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Bio51 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Bio51'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA51 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA51 Imp	601.783	1.05	0.48
Flow (In)	Bio51	601.783	1.05	0.48

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio52
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.10	0.00	0.000	0.029	0.00	0.00	0.00
100.35	0.00	331.360	0.032	0.02	0.02	3.70
100.60	0.00	694.809	0.035	0.02	0.02	7.74
100.83	0.00	1,058.797	0.038	0.02	0.02	11.78
100.85	0.01	1,091.829	0.038	0.02	0.03	12.16
101.10	0.42	1,524.037	0.041	0.02	0.44	17.38
101.35	1.12	1,994.195	0.045	0.02	1.15	23.31
101.60	2.03	2,504.218	0.049	0.02	2.05	29.88
101.85	3.09	3,055.727	0.053	0.03	3.12	37.07
102.10	4.29	3,649.884	0.056	0.03	4.32	44.88
102.35	5.62	4,283.924	0.060	0.03	5.65	53.25
102.60	7.06	4,958.063	0.064	0.03	7.10	62.19
102.85	8.61	5,673.532	0.068	0.03	8.65	71.69
103.10	10.26	6,431.400	0.072	0.04	10.30	81.76
103.35	12.00	7,231.389	0.075	0.04	12.04	92.39
103.60	13.83	8,074.265	0.079	0.04	13.87	103.58
103.85	15.74	8,961.150	0.083	0.04	15.79	115.36
104.10	17.74	9,894.413	0.088	0.04	17.78	127.72
104.35	19.81	10,887.042	0.094	0.05	19.86	140.83
104.60	21.96	11,943.806	0.100	0.05	22.01	154.72
104.85	24.18	13,066.714	0.106	0.05	24.23	169.42
105.00	25.55	13,773.042	0.110	0.06	25.60	178.64

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Bio52 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	100.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.92 ft³/s	Time to Peak (Flow, In)	1.05 hours
Infiltration (Peak)	0.02 ft³/s	Time to Peak (Infiltration)	2.00 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	2.00 hours

Elevation (Water Surface, Peak)	100.83 ft
Volume (Peak)	1,064.433 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,143.000 ft³
Volume (Total Infiltration)	1,142.000 ft³
Volume (Total Outlet Outflow)	1.000 ft³
Volume (Retained)	1.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Bio52 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Bio52'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA52 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA52 Imp	1,143.372	1.05	0.92
Flow (In)	Bio52	1,143.372	1.05	0.92

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Bio53
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.50	0.00	0.000	0.014	0.00	0.00	0.00
104.75	0.00	181.786	0.020	0.00	0.00	2.02
105.00	0.00	428.912	0.026	0.00	0.00	4.77
105.25	0.00	729.406	0.029	0.00	0.00	8.10
105.45	0.00	995.673	0.032	0.00	0.00	11.06
105.50	0.03	1,065.970	0.033	0.00	0.03	11.88
105.75	0.49	1,440.649	0.036	0.00	0.49	16.50
106.00	1.22	1,855.488	0.040	0.00	1.22	21.84
106.25	2.15	2,316.021	0.045	0.00	2.15	27.88
106.50	3.23	2,828.254	0.049	0.00	3.23	34.65
106.75	4.45	3,394.937	0.055	0.00	4.45	42.17
107.00	5.79	4,018.820	0.060	0.00	5.79	50.44
107.25	7.24	4,691.690	0.064	0.00	7.24	59.37
107.50	8.81	5,404.260	0.067	0.00	8.81	68.85
107.75	10.46	6,157.668	0.071	0.00	10.46	78.88
108.00	12.22	6,953.051	0.075	0.00	12.22	89.47
108.25	14.06	7,786.908	0.078	0.00	14.06	100.58
108.50	15.98	8,655.451	0.081	0.00	15.98	112.15
108.75	17.98	9,559.387	0.085	0.00	17.98	124.20
109.00	20.07	10,499.421	0.088	0.00	20.07	136.73

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Bio53 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.27 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	104.91 ft
Volume (Peak)	334.845 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	343.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	335.000 ft³
Volume (Unrouted)	-8.000 ft³
Error (Mass Balance)	2.3 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Bio53 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Bio53'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA53 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA53 Imp	342.886	1.05	0.27
Flow (In)	Bio53	342.886	1.05	0.27

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: Bio58
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	106.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	2.15	106.98	4,043.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.05	3.20	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	4,064.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	4,064.000 ft³
Volume (Total Out ICPM)	0.000 ft³
Volume (Ending)	4,043.000 ft³
Elevation (Ending)	106.98 ft
Difference	21.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.5 %

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: EX. BASIN 6
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
89.00	0.00	0.000	1.300	0.00	0.00	0.00
89.25	0.00	14,319.122	1.330	0.00	0.00	159.10
89.50	0.00	28,964.943	1.360	0.00	0.00	321.83
89.75	0.00	43,937.518	1.390	0.00	0.00	488.19
90.00	0.00	59,236.793	1.420	0.00	0.00	658.19
90.25	0.08	74,889.639	1.455	0.00	0.08	832.19
90.50	0.14	90,923.636	1.490	0.00	0.14	1,010.41
90.75	0.19	107,312.011	1.520	0.00	0.19	1,192.54
91.00	0.22	124,027.087	1.550	0.00	0.22	1,378.30
91.25	0.25	141,100.242	1.586	0.00	0.25	1,568.03
91.35	0.26	148,038.528	1.600	0.00	0.26	1,645.13
91.50	0.74	158,558.201	1.620	0.00	0.74	1,762.50
91.75	2.33	176,362.360	1.650	0.00	2.33	1,961.91
92.00	4.52	194,493.220	1.680	0.00	4.52	2,165.55
92.25	7.17	212,977.699	1.715	0.00	7.17	2,373.59
92.50	10.23	231,843.327	1.750	0.00	10.23	2,586.27
92.75	13.63	251,090.157	1.785	0.00	13.63	2,803.53
93.00	17.36	270,718.136	1.820	0.00	17.36	3,025.34
93.25	21.37	290,727.312	1.855	0.00	21.37	3,251.67
93.50	25.65	311,117.638	1.890	0.00	25.65	3,482.52
93.75	30.19	331,916.034	1.930	0.00	30.19	3,718.15
94.00	34.98	353,150.029	1.970	0.00	34.98	3,958.87
94.25	39.99	374,792.795	2.005	0.00	39.99	4,204.35
94.50	45.22	396,816.711	2.040	0.00	45.22	4,454.29
94.75	50.66	419,221.814	2.075	0.00	50.66	4,708.68
95.00	56.31	442,008.068	2.110	0.00	56.31	4,967.51

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: EX. BASIN 6 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	89.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	10.88 ft³/s	Time to Peak (Flow, In)	1.15 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	89.34 ft
Volume (Peak)	19,282.778 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	19,320.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	19,283.000 ft³
Volume (Unrouted)	-37.000 ft³
Error (Mass Balance)	0.2 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: EX. BASIN 6 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'EX. BASIN 6'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Future Imp Road-Basin 6 (S Brunswick)
<Catchment to Outflow Node>	PDA-6 Imp (Plainsboro)
Out17	UGB17
Out25	Bio25

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Future Imp Road-Basin 6 (S Brunswick)	1,144.231	1.05	0.92
Flow (From)	PDA-6 Imp (Plainsboro)	18,175.463	1.15	10.53
Flow (From)	Out17	0.000	0.00	0.00
Flow (From)	Out25	0.000	0.00	0.00
Flow (In)	EX. BASIN 6	19,319.694	1.15	10.88

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Infil29
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
93.00	0.00	0.000	0.008	0.00	0.00	0.00
93.05	0.00	17.073	0.008	0.00	0.00	0.19
93.10	0.00	35.208	0.009	0.00	0.00	0.40
93.15	0.00	54.437	0.009	0.00	0.00	0.61
93.20	0.00	74.792	0.010	0.00	0.00	0.84
93.25	0.00	96.306	0.010	0.01	0.01	1.08
93.30	0.00	119.009	0.011	0.01	0.01	1.33
93.35	0.00	142.935	0.011	0.01	0.01	1.59
93.40	0.00	168.115	0.012	0.01	0.01	1.87
93.45	0.00	194.581	0.012	0.01	0.01	2.17
93.50	0.00	222.365	0.013	0.01	0.01	2.48
93.55	0.00	251.500	0.014	0.01	0.01	2.80
93.60	0.00	282.017	0.014	0.01	0.01	3.14
93.65	0.00	313.949	0.015	0.01	0.01	3.50
93.70	0.00	347.327	0.016	0.01	0.01	3.87
93.75	0.00	382.184	0.016	0.01	0.01	4.25
93.80	0.00	418.551	0.017	0.01	0.01	4.66
93.85	0.00	456.461	0.018	0.01	0.01	5.08
93.90	0.00	495.945	0.018	0.01	0.01	5.52
93.95	0.00	537.037	0.019	0.01	0.01	5.98
94.00	0.00	579.767	0.020	0.01	0.01	6.45
94.05	0.00	623.906	0.021	0.01	0.01	6.94
94.10	0.00	669.215	0.021	0.01	0.01	7.45
94.15	0.00	715.708	0.022	0.01	0.01	7.96
94.20	0.00	763.401	0.022	0.01	0.01	8.49
94.25	0.00	812.309	0.023	0.01	0.01	9.04
94.30	0.00	862.448	0.023	0.01	0.01	9.59
94.35	0.05	913.832	0.024	0.01	0.06	10.22

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Infil29
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
94.40	0.14	966.477	0.024	0.01	0.15	10.89
94.45	0.26	1,020.399	0.025	0.01	0.27	11.61
94.50	0.40	1,075.612	0.026	0.01	0.42	12.37
94.55	0.56	1,132.131	0.026	0.01	0.58	13.15
94.60	0.74	1,189.973	0.027	0.01	0.75	13.97
94.65	0.93	1,249.152	0.027	0.01	0.95	14.83
94.70	1.14	1,309.684	0.028	0.01	1.15	15.70
94.75	1.36	1,371.584	0.029	0.01	1.37	16.61
94.80	1.59	1,434.867	0.029	0.01	1.61	17.55
94.85	1.84	1,499.548	0.030	0.02	1.85	18.51
94.90	2.09	1,565.644	0.031	0.02	2.11	19.50
94.95	2.36	1,633.168	0.031	0.02	2.37	20.52
95.00	2.64	1,702.137	0.032	0.02	2.65	21.56
95.05	2.92	1,772.528	0.033	0.02	2.94	22.63
95.10	3.22	1,844.320	0.033	0.02	3.24	23.73
95.15	3.53	1,917.527	0.034	0.02	3.54	24.85
95.20	3.84	1,992.161	0.035	0.02	3.86	25.99
95.25	4.17	2,068.237	0.035	0.02	4.18	27.16
95.30	4.50	2,145.769	0.036	0.02	4.52	28.36
95.35	4.84	2,224.770	0.037	0.02	4.86	29.58
95.40	5.19	2,305.255	0.037	0.02	5.21	30.82
95.45	5.55	2,387.236	0.038	0.02	5.57	32.09
95.50	5.92	2,470.729	0.039	0.02	5.93	33.39
95.55	6.29	2,555.746	0.039	0.02	6.31	34.71
95.60	6.67	2,642.301	0.040	0.02	6.69	36.05
95.65	7.06	2,730.408	0.041	0.02	7.08	37.42
95.70	7.45	2,820.082	0.042	0.02	7.48	38.81
95.75	7.86	2,911.335	0.042	0.02	7.88	40.23
95.80	8.27	3,004.182	0.043	0.02	8.29	41.67
95.85	8.68	3,098.636	0.044	0.02	8.71	43.14
95.90	9.11	3,194.711	0.044	0.02	9.13	44.63
95.95	9.71	3,292.422	0.045	0.02	9.74	46.32
96.00	10.48	3,391.781	0.046	0.02	10.50	48.18
96.05	11.34	3,492.807	0.047	0.02	11.36	50.17
96.10	12.28	3,595.520	0.048	0.02	12.31	52.26
96.15	13.30	3,699.934	0.048	0.02	13.33	54.44
96.20	14.39	3,806.062	0.049	0.02	14.41	56.70
96.25	15.53	3,913.919	0.050	0.03	15.56	59.05
96.30	16.74	4,023.518	0.051	0.03	16.76	61.47
96.35	17.89	4,134.873	0.052	0.03	17.92	63.86
96.40	18.63	4,247.999	0.052	0.03	18.66	65.86
96.45	19.36	4,362.909	0.053	0.03	19.39	67.87
96.50	20.09	4,479.617	0.054	0.03	20.12	69.89

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Infil29 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	93.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.73 ft³/s	Time to Peak (Flow, In)	1.05 hours
Infiltration (Peak)	0.01 ft³/s	Time to Peak (Infiltration)	2.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	94.30 ft
Volume (Peak)	857.597 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	908.000 ft³
Volume (Total Infiltration)	908.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Infil29 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Infil29'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA29 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA29 Imp	908.403	1.05	0.73
Flow (In)	Infil29	908.403	1.05	0.73

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: Infil30
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	91.40	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	3.15	91.47	1,753.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.05	1.38	0.00	0.00
Pond Outflow...	3.45	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	1,756.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	45.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	1,756.000 ft³
Volume (Total Out ICPM)	45.000 ft³
Volume (Ending)	1,711.000 ft³
Elevation (Ending)	91.46 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Infil8
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
109.50	0.00	0.000	0.100	0.00	0.00	0.00
109.60	0.00	439.866	0.102	0.03	0.03	4.92
109.70	0.00	888.320	0.104	0.03	0.03	9.90
109.76	0.00	1,161.548	0.105	0.03	0.03	12.94
109.80	0.00	1,345.444	0.106	0.03	0.04	14.99
109.90	0.06	1,811.321	0.108	0.03	0.09	20.22
110.00	0.17	2,286.035	0.110	0.03	0.20	25.60
110.10	0.33	2,769.382	0.112	0.03	0.36	31.14
110.20	0.54	3,261.149	0.114	0.03	0.57	36.81
110.30	0.78	3,761.410	0.116	0.04	0.81	42.61
110.40	1.05	4,270.238	0.118	0.04	1.09	48.54
110.50	1.34	4,787.705	0.120	0.04	1.38	54.58
110.60	1.71	5,313.884	0.122	0.04	1.74	60.79
110.70	1.90	5,848.848	0.124	0.04	1.94	66.92
110.75	1.99	6,119.647	0.125	0.04	2.03	70.02
110.80	2.12	6,392.669	0.126	0.04	2.16	73.19
110.90	2.49	6,945.420	0.128	0.04	2.53	79.70
111.00	2.94	7,507.175	0.130	0.04	2.98	86.40
111.10	3.45	8,079.672	0.133	0.04	3.49	93.27
111.20	4.01	8,664.696	0.136	0.04	4.06	100.33
111.30	4.62	9,262.381	0.139	0.04	4.66	107.58
111.40	5.26	9,872.863	0.142	0.04	5.30	115.00
111.48	5.80	10,370.553	0.144	0.04	5.85	121.08
111.50	6.00	10,496.277	0.145	0.04	6.05	122.67
111.60	7.53	11,132.759	0.148	0.04	7.57	131.27
111.70	9.56	11,782.445	0.151	0.05	9.61	140.52
111.80	11.97	12,445.470	0.154	0.05	12.01	150.30
111.90	14.68	13,121.969	0.157	0.05	14.73	160.53

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: Infil8
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
112.00	17.66	13,812.079	0.160	0.05	17.71	171.18

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: Infil8 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.3000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.16 ft³/s	Time to Peak (Flow, In)	1.05 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	2.00 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	2.00 hours

Elevation (Water Surface, Peak)	109.79 ft
Volume (Peak)	1,306.995 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,448.000 ft³
Volume (Total Infiltration)	1,433.000 ft³
Volume (Total Outlet Outflow)	15.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: Infil8 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'Infil8'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA8 Imp
Out10	UGB10

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA8 Imp	1,448.099	1.05	1.16
Flow (From)	Out10	0.000	0.00	0.00
Flow (In)	Infil8	1,448.099	1.05	1.16

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB10
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
106.00	0.00	0.000	0.000	0.00	0.00	0.00
106.25	0.00	308.473	0.000	0.00	0.00	3.43
106.50	0.00	623.315	0.000	0.00	0.00	6.93
106.75	0.00	1,276.719	0.000	0.00	0.00	14.19
107.00	0.00	1,927.904	0.000	0.00	0.00	21.42
107.25	0.56	2,571.755	0.000	0.00	0.56	29.14
107.50	1.59	3,206.879	0.000	0.00	1.59	37.22
107.75	2.92	3,827.883	0.000	0.00	2.92	45.45
108.00	4.50	4,432.649	0.000	0.00	4.50	53.75
108.25	6.29	5,012.490	0.000	0.00	6.29	61.98
108.50	8.27	5,561.117	0.000	0.00	8.27	70.06
108.75	10.42	6,052.483	0.000	0.00	10.42	77.67
109.00	12.73	6,466.727	0.000	0.00	12.73	84.58
109.25	15.19	6,858.120	0.000	0.00	15.19	91.39
109.50	17.79	7,256.458	0.000	0.00	17.79	98.42

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB10 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.46 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	106.46 ft
Volume (Peak)	570.709 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	571.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	571.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.1 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB10 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB10'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA10 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA10 Imp	571.063	1.05	0.46
Flow (In)	UGB10	571.063	1.05	0.46

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB11
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
84.08	0.00	0.000	0.030	0.00	0.00	0.00
84.33	0.00	131.027	0.031	0.03	0.03	1.49
84.58	0.00	266.376	0.032	0.03	0.03	2.99
84.83	0.00	524.762	0.033	0.03	0.03	5.86
85.01	0.00	707.306	0.033	0.03	0.03	7.89
85.08	0.11	777.248	0.034	0.03	0.15	8.78
85.25	0.71	942.372	0.034	0.03	0.74	11.21
85.33	1.36	1,017.967	0.035	0.04	1.39	12.70
85.58	4.86	1,241.878	0.036	0.04	4.89	18.69
85.83	9.76	1,427.142	0.037	0.04	9.79	25.65
86.08	15.71	1,593.003	0.038	0.04	15.75	33.45
86.33	22.57	1,761.461	0.039	0.04	22.61	42.18
86.41	25.03	1,818.570	0.040	0.04	25.07	45.28

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB11 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	84.08 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.45 ft³/s	Time to Peak (Flow, In)	1.05 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	1.80 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	84.75 ft
Volume (Peak)	441.132 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	565.000 ft³
Volume (Total Infiltration)	565.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB11 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB11'

Upstream Link	Upstream Node
Out15	UGB15
<Catchment to Outflow Node>	DA11 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out15	0.000	0.00	0.00
Flow (From)	DA11 Imp	564.960	1.05	0.45
Flow (In)	UGB11	564.960	1.05	0.45

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB13
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	2.10	86.87	343.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.05	0.27	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	342.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	342.000 ft³
Volume (Total Out ICPM)	0.000 ft³
Volume (Ending)	343.000 ft³
Elevation (Ending)	86.87 ft
Difference	-1.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.3 %

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB14
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	86.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	2.20	87.19	380.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.05	0.30	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	381.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	381.000 ft³
Volume (Total Out ICPM)	0.000 ft³
Volume (Ending)	380.000 ft³
Elevation (Ending)	87.19 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB15
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	92.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	2.15	92.33	911.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.05	0.72	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	913.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	913.000 ft³
Volume (Total Out ICPM)	0.000 ft³
Volume (Ending)	911.000 ft³
Elevation (Ending)	92.33 ft
Difference	3.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.3 %

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB16
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	2.10	94.51	2,044.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.05	1.62	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	2,053.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	2,053.000 ft³
Volume (Total Out ICPM)	0.000 ft³
Volume (Ending)	2,044.000 ft³
Elevation (Ending)	94.51 ft
Difference	9.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.4 %

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB17
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
110.50	0.00	0.000	0.000	0.00	0.00	0.00
110.75	0.00	1,168.548	0.000	0.00	0.00	12.98
111.00	0.00	2,350.871	0.000	0.00	0.00	26.12
111.25	0.00	4,850.926	0.000	0.00	0.00	53.90
111.50	0.00	7,330.736	0.000	0.00	0.00	81.45
111.75	0.38	9,769.092	0.000	0.00	0.38	108.92
112.00	1.06	12,161.358	0.000	0.00	1.06	136.19
112.25	1.95	14,485.207	0.000	0.00	1.95	162.90
112.50	3.00	16,733.176	0.000	0.00	3.00	188.92
112.75	4.19	18,869.975	0.000	0.00	4.19	213.86
113.00	5.51	20,871.780	0.000	0.00	5.51	237.42
113.25	6.95	22,635.077	0.000	0.00	6.95	258.45
113.50	8.49	24,082.744	0.000	0.00	8.49	276.07
113.75	10.13	25,426.780	0.000	0.00	10.13	292.64
114.00	11.86	26,785.167	0.000	0.00	11.86	309.47

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB17 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.52 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	110.64 ft
Volume (Peak)	646.545 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	648.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	647.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.3 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB17 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB17'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA17 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA17 Imp	648.202	1.05	0.52
Flow (In)	UGB17	648.202	1.05	0.52

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB18
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	2.15	95.25	974.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.10	0.71	0.00	0.00
Pond Outflow...	2.15	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	977.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	9.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	977.000 ft³
Volume (Total Out ICPM)	9.000 ft³
Volume (Ending)	968.000 ft³
Elevation (Ending)	95.24 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Infiltration Calculations
Label: UGB19 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
94.50	1,139.2	0.00
94.60	1,156.9	0.03
94.70	1,174.6	0.03
94.75	1,183.5	0.03
94.80	1,192.4	0.03
94.90	1,210.3	0.03
95.00	1,228.3	0.03
95.10	1,246.3	0.03
95.20	1,264.5	0.03
95.25	1,273.6	0.03
95.30	1,282.7	0.03
95.40	1,301.0	0.03
95.50	1,319.4	0.03
95.60	1,337.8	0.03
95.70	1,356.3	0.03
95.75	1,365.6	0.03
95.80	1,375.0	0.03
95.90	1,393.7	0.03
96.00	1,412.4	0.03
96.10	1,431.3	0.03
96.20	1,450.2	0.03
96.25	1,459.7	0.03
96.30	1,469.2	0.03
96.40	1,488.3	0.03
96.50	1,507.5	0.03
96.60	1,526.8	0.04
96.70	1,546.1	0.04
96.75	1,555.8	0.04
96.80	1,565.5	0.04
96.90	1,585.0	0.04
97.00	1,604.6	0.04
97.10	1,624.3	0.04
97.20	1,644.0	0.04
97.25	1,653.9	0.04
97.30	1,663.8	0.04
97.40	1,683.7	0.04
97.50	1,703.7	0.04
97.60	1,723.7	0.04
97.70	1,743.9	0.04
97.75	1,754.0	0.04
97.80	1,764.1	0.04
97.90	1,784.4	0.04

WQ Basin Routings

Subsection: Pond Infiltration Calculations
Label: UGB19 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
98.00	1,804.8	0.04
98.10	1,825.2	0.04
98.20	1,845.7	0.04
98.25	1,856.0	0.04

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB19
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	1.80	95.06	296.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.10	0.32	0.00	0.00
Infiltration...	1.80	0.00	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	414.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	413.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	414.000 ft³
Volume (Total Out ICPM)	413.000 ft³
Volume (Ending)	0.000 ft³
Elevation (Ending)	94.50 ft
Difference	1.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.2 %

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB2
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	85.25	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	2.10	85.86	1,067.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.05	0.84	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	1,066.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	1,066.000 ft³
Volume (Total Out ICPM)	0.000 ft³
Volume (Ending)	1,067.000 ft³
Elevation (Ending)	85.86 ft
Difference	-1.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.1 %

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB20
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	1.0000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	97.10	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	1.15	97.16	134.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	1.05	0.21	0.00	0.00
Infiltration...	1.15	0.00	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	272.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	272.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	272.000 ft³
Volume (Total Out ICPM)	272.000 ft³
Volume (Ending)	0.000 ft³
Elevation (Ending)	97.10 ft
Difference	0.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB21
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.000	0.00	0.00	0.00
98.25	0.00	72.016	0.000	0.00	0.00	0.80
98.50	0.00	146.982	0.000	0.00	0.00	1.63
98.75	0.00	296.469	0.000	0.00	0.00	3.29
99.00	0.00	446.969	0.000	0.00	0.00	4.97
99.25	0.00	598.111	0.000	0.00	0.00	6.65
99.50	0.28	749.578	0.000	0.00	0.28	8.61
99.75	0.80	900.689	0.000	0.00	0.80	10.80
100.00	1.46	1,051.078	0.000	0.00	1.46	13.14
100.25	2.25	1,199.586	0.000	0.00	2.25	15.58
100.50	3.14	1,345.556	0.000	0.00	3.14	18.10
100.75	4.13	1,486.340	0.000	0.00	4.13	20.65
101.00	5.21	1,618.286	0.000	0.00	5.21	23.19
101.25	6.36	1,736.436	0.000	0.00	6.36	25.66
101.50	7.59	1,852.245	0.000	0.00	7.59	28.17
101.75	8.89	1,971.778	0.000	0.00	8.89	30.80

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB21 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.47 ft³/s	Time to Peak (Flow, In)	1.10 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	2.10 hours

Elevation (Water Surface, Peak)	99.25 ft
Volume (Peak)	599.711 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	601.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3.000 ft³
Volume (Retained)	598.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB21 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB21'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA21 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA21 Imp	600.618	1.10	0.47
Flow (In)	UGB21	600.618	1.10	0.47

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB22
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
107.00	0.00	0.000	0.000	0.00	0.00	0.00
107.25	0.00	1,028.256	0.000	0.00	0.00	11.43
107.50	0.00	2,068.919	0.000	0.00	0.00	22.99
107.75	0.00	4,267.923	0.000	0.00	0.00	47.42
108.00	0.00	6,449.450	0.000	0.00	0.00	71.66
108.25	0.56	8,594.895	0.000	0.00	0.56	96.06
108.50	1.59	10,700.163	0.000	0.00	1.59	120.48
108.75	2.92	12,745.666	0.000	0.00	2.92	144.54
109.00	4.50	14,724.823	0.000	0.00	4.50	168.11
109.25	6.29	16,606.658	0.000	0.00	6.29	190.81
109.50	8.27	18,370.211	0.000	0.00	8.27	212.38
109.75	10.42	19,924.550	0.000	0.00	10.42	231.80
110.00	12.73	21,201.878	0.000	0.00	12.73	248.30
110.25	15.19	22,388.534	0.000	0.00	15.19	263.95
110.50	17.79	23,588.173	0.000	0.00	17.79	279.88

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB22 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.52 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	107.16 ft
Volume (Peak)	645.601 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	647.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	646.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.2 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB22 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB22'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA22 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA22 Imp	647.016	1.05	0.52
Flow (In)	UGB22	647.016	1.05	0.52

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB27
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.00	0.00	0.000	0.051	0.00	0.00	0.00
99.10	0.00	89.734	0.052	0.03	0.03	1.02
99.20	0.00	180.505	0.052	0.03	0.03	2.03
99.30	0.00	272.317	0.053	0.03	0.03	3.05
99.40	0.00	365.173	0.054	0.03	0.03	4.08
99.50	0.00	459.077	0.054	0.03	0.03	5.13
99.60	0.00	650.119	0.055	0.03	0.03	7.25
99.70	0.00	840.556	0.055	0.03	0.03	9.37
99.80	0.00	1,031.733	0.056	0.03	0.03	11.49
99.90	0.00	1,222.069	0.057	0.03	0.03	13.61
100.00	0.00	1,412.787	0.057	0.03	0.03	15.73
100.10	0.00	1,603.078	0.058	0.03	0.03	17.84
100.20	0.00	1,792.489	0.058	0.03	0.03	19.95
100.30	0.00	1,982.158	0.059	0.03	0.03	22.05
100.40	0.00	2,170.592	0.060	0.03	0.03	24.15
100.50	0.00	2,358.913	0.060	0.03	0.03	26.24
100.60	0.00	2,546.184	0.061	0.03	0.03	28.32
100.70	0.00	2,732.088	0.062	0.03	0.03	30.39
100.72	0.00	2,769.186	0.062	0.03	0.03	30.80
100.80	0.02	2,917.579	0.062	0.03	0.05	32.47
100.90	0.11	3,101.280	0.063	0.03	0.14	34.60
101.00	0.26	3,284.090	0.063	0.03	0.29	36.78
101.10	0.46	3,464.986	0.064	0.03	0.49	38.99
101.20	0.71	3,643.723	0.065	0.03	0.74	41.23
101.30	1.00	3,820.980	0.065	0.03	1.04	43.49
101.40	1.34	3,995.452	0.066	0.03	1.37	45.76
101.50	1.70	4,167.674	0.067	0.03	1.74	48.04
101.60	2.09	4,336.150	0.067	0.03	2.13	50.31

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB27
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.70	2.50	4,500.614	0.068	0.03	2.53	52.54
101.80	2.88	4,660.867	0.069	0.03	2.91	54.70
101.90	3.12	4,814.926	0.069	0.03	3.15	56.65
102.00	3.34	4,959.648	0.070	0.04	3.37	58.48
102.10	3.55	5,093.612	0.070	0.04	3.58	60.18
102.20	3.74	5,223.712	0.071	0.04	3.78	61.82
102.30	3.93	5,349.858	0.072	0.04	3.96	63.41
102.40	4.11	5,475.522	0.072	0.04	4.14	64.98
102.50	4.28	5,602.329	0.073	0.04	4.31	66.56
102.60	4.44	5,730.283	0.074	0.04	4.48	68.15
102.70	4.60	5,859.386	0.074	0.04	4.64	69.74
102.75	4.68	5,924.370	0.075	0.04	4.71	70.54

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB27 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.36 ft³/s	Time to Peak (Flow, In)	1.05 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	2.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	100.72 ft
Volume (Peak)	2,764.501 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	2,925.000 ft³
Volume (Total Infiltration)	2,925.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB27 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB27'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA27

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA27	2,925.343	1.05	2.36
Flow (In)	UGB27	2,925.343	1.05	2.36

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB3
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
85.50	0.00	0.000	0.000	0.00	0.00	0.00
85.51	0.00	6.326	0.000	0.00	0.00	0.07
85.60	0.06	63.256	0.022	0.01	0.07	0.77
85.70	0.19	177.824	0.031	0.02	0.20	2.18
85.80	0.37	324.664	0.038	0.02	0.39	3.99
85.90	0.59	496.718	0.044	0.02	0.61	6.13
86.00	0.84	689.770	0.050	0.03	0.87	8.53
86.10	1.11	900.879	0.055	0.03	1.14	11.15
86.20	1.43	1,127.810	0.059	0.03	1.46	13.99
86.30	1.77	1,368.771	0.064	0.03	1.80	17.01
86.40	2.19	1,622.270	0.068	0.03	2.23	20.25
86.50	2.58	1,887.027	0.072	0.04	2.62	23.58
86.60	2.93	2,161.918	0.076	0.04	2.97	26.99
86.70	3.36	2,445.942	0.079	0.04	3.40	30.58
86.80	3.81	2,738.191	0.083	0.04	3.85	34.27
86.90	4.27	3,037.832	0.086	0.04	4.32	38.07
87.00	4.76	3,344.091	0.090	0.05	4.81	41.96
87.10	5.26	3,656.246	0.093	0.05	5.31	45.93
87.20	5.78	3,973.612	0.096	0.05	5.83	49.98
87.30	6.31	4,295.541	0.100	0.05	6.36	54.09
87.40	6.86	4,621.409	0.103	0.05	6.92	58.27
87.50	7.43	4,950.615	0.106	0.05	7.48	62.49
87.60	8.01	5,282.579	0.109	0.06	8.06	66.76
87.70	8.60	5,616.732	0.112	0.06	8.66	71.06
87.80	9.21	5,952.518	0.115	0.06	9.26	75.40
87.90	9.90	6,289.387	0.119	0.06	9.96	79.84
88.00	10.45	6,626.797	0.122	0.06	10.52	84.15
88.10	11.10	6,964.207	0.125	0.06	11.16	88.54

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB3
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
88.20	11.75	7,301.076	0.128	0.06	11.82	92.94
88.30	12.42	7,636.862	0.131	0.07	12.49	97.34
88.40	13.09	7,971.015	0.134	0.07	13.16	101.73
88.50	13.78	8,302.979	0.137	0.07	13.85	106.10
88.60	14.47	8,632.185	0.140	0.07	14.55	110.46
88.70	15.18	8,958.053	0.144	0.07	15.25	114.78
88.80	15.89	9,279.982	0.147	0.07	15.96	119.07
88.90	16.60	9,597.348	0.150	0.08	16.68	123.32
89.00	17.32	9,909.503	0.154	0.08	17.40	127.51
89.10	18.05	10,215.762	0.157	0.08	18.12	131.63
89.20	18.80	10,515.403	0.160	0.08	18.88	135.72
89.30	19.52	10,807.652	0.164	0.08	19.60	139.69
89.40	20.23	11,091.676	0.168	0.08	20.32	143.56
89.50	20.87	11,366.567	0.172	0.09	20.96	147.25
89.60	21.53	11,631.324	0.176	0.09	21.62	150.86
89.70	22.46	11,884.823	0.180	0.09	22.55	154.61
89.80	23.40	12,125.784	0.184	0.09	23.50	158.23
89.90	24.35	12,352.715	0.189	0.10	24.45	161.70
90.00	25.31	12,563.824	0.194	0.10	25.41	165.01
90.10	26.28	12,756.876	0.199	0.10	26.38	168.13
90.20	27.26	12,928.930	0.205	0.10	27.36	171.02
90.30	28.25	13,075.770	0.212	0.11	28.36	173.64
90.40	29.25	13,190.338	0.221	0.11	29.36	175.92
90.50	30.26	13,253.594	0.243	0.12	30.38	177.64

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB3 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.00 ft³/s	Time to Peak (Flow, In)	0.00 hours
Infiltration (Peak)	0.00 ft³/s	Time to Peak (Infiltration)	0.00 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	85.50 ft
Volume (Peak)	0.000 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	0.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB3 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB3'

Upstream Link	Upstream Node
Out35	Bio35
Out51	Bio51

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Out35	0.000	0.00	0.00
Flow (From)	Out51	0.000	0.00	0.00
Flow (In)	UGB3	0.000	0.00	0.00

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB31
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	92.60 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
92.60	0.00	0.000	0.000	0.00	0.00	0.00
92.85	0.00	348.931	0.000	0.00	0.00	3.88
93.10	0.00	704.872	0.000	0.00	0.00	7.83
93.18	0.00	938.636	0.000	0.00	0.00	10.43
93.35	0.09	1,435.601	0.000	0.00	0.09	16.04
93.60	0.49	2,163.821	0.000	0.00	0.49	24.53
93.85	1.14	2,883.861	0.000	0.00	1.14	33.18
94.10	1.86	3,594.178	0.000	0.00	1.86	41.80
94.35	2.28	4,288.791	0.000	0.00	2.28	49.93
94.60	2.63	4,965.354	0.000	0.00	2.63	57.80
94.85	2.94	5,614.238	0.000	0.00	2.94	65.32
95.10	3.22	6,228.483	0.000	0.00	3.22	72.42
95.35	3.48	6,779.237	0.000	0.00	3.48	78.80
95.60	3.72	7,244.515	0.000	0.00	3.72	84.21
95.85	3.94	7,684.387	0.000	0.00	3.94	89.32
96.10	4.15	8,131.847	0.000	0.00	4.15	94.51

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB31 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	92.60 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.76 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	2.10 hours

Elevation (Water Surface, Peak)	93.18 ft
Volume (Peak)	942.868 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	943.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	4.000 ft³
Volume (Retained)	939.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB31 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA31 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA31 Imp	943.134	1.05	0.76
Flow (In)	UGB31	943.134	1.05	0.76

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB32
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
109.75	0.00	0.000	0.000	0.00	0.00	0.00
110.00	0.00	1,028.256	0.000	0.00	0.00	11.43
110.25	0.00	2,068.919	0.000	0.00	0.00	22.99
110.50	0.00	4,267.923	0.000	0.00	0.00	47.42
110.75	0.56	6,449.450	0.000	0.00	0.56	72.22
111.00	1.59	8,594.895	0.000	0.00	1.59	97.09
111.25	2.92	10,700.163	0.000	0.00	2.92	121.81
111.50	4.50	12,745.666	0.000	0.00	4.50	146.12
111.75	6.29	14,724.823	0.000	0.00	6.29	169.90
112.00	8.27	16,606.658	0.000	0.00	8.27	192.79
112.25	10.42	18,370.211	0.000	0.00	10.42	214.53
112.50	12.73	19,924.550	0.000	0.00	12.73	234.11
112.75	15.19	21,201.878	0.000	0.00	15.19	250.76
113.00	17.79	22,388.534	0.000	0.00	17.79	266.55
113.25	20.52	23,588.173	0.000	0.00	20.52	282.61

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB32 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.14 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	110.32 ft
Volume (Peak)	2,669.325 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	2,669.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	2,669.000 ft³
Volume (Unrouted)	1.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB32 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB32'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA32 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA32 Imp	2,668.635	1.05	2.14
Flow (In)	UGB32	2,668.635	1.05	2.14

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB33
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
105.82	0.00	0.000	0.000	0.00	0.00	0.00
106.07	0.00	226.411	0.000	0.00	0.00	2.52
106.32	0.00	459.077	0.000	0.00	0.00	5.10
106.40	0.00	611.279	0.000	0.00	0.00	6.79
106.57	0.32	935.435	0.000	0.00	0.32	10.71
106.82	1.22	1,411.941	0.000	0.00	1.22	16.91
107.07	2.47	1,885.100	0.000	0.00	2.47	23.41
107.32	3.97	2,353.786	0.000	0.00	3.97	30.12
107.57	5.69	2,814.308	0.000	0.00	5.69	36.97
107.82	7.61	3,265.020	0.000	0.00	7.61	43.89
108.07	9.71	3,699.879	0.000	0.00	9.71	50.82
108.32	11.97	4,114.257	0.000	0.00	11.97	57.69
108.57	14.38	4,489.716	0.000	0.00	14.38	64.27
108.82	16.94	4,811.931	0.000	0.00	16.94	70.41
109.07	19.63	5,119.834	0.000	0.00	19.63	76.52
109.32	22.45	5,434.568	0.000	0.00	22.45	82.84

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB33 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	105.82 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.27 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	106.20 ft
Volume (Peak)	341.964 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	343.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	342.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.2 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB33 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB33'

Upstream Link	Upstream Node
Out32	UGB32
Out34	UGB34
<Catchment to Outflow Node>	DA33 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out32	0.000	0.00	0.00
Flow (From)	Out34	0.000	0.00	0.00
Flow (From)	DA33 Imp	342.749	1.05	0.27
Flow (In)	UGB33	342.749	1.05	0.27

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB34
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
109.50	0.00	0.000	0.000	0.00	0.00	0.00
109.75	0.00	391.888	0.000	0.00	0.00	4.35
110.00	0.00	793.495	0.000	0.00	0.00	8.82
110.25	0.16	1,583.242	0.000	0.00	0.16	17.75
110.50	0.58	2,349.867	0.000	0.00	0.58	26.69
110.75	1.08	3,074.183	0.000	0.00	1.08	35.24
111.00	1.37	3,740.357	0.000	0.00	1.37	42.93
111.25	1.61	4,278.202	0.000	0.00	1.61	49.14
111.50	1.81	4,749.415	0.000	0.00	1.81	54.59
111.75	2.00	5,223.702	0.000	0.00	2.00	60.04
111.83	2.06	5,383.854	0.000	0.00	2.06	61.88

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB34 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	109.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.30 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	109.74 ft
Volume (Peak)	379.512 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	380.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	380.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB34 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB34'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA34 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA34 Imp	379.664	1.05	0.30
Flow (In)	UGB34	379.664	1.05	0.30

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB37
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.50	0.00	0.000	0.000	0.00	0.00	0.00
103.75	0.00	226.411	0.000	0.00	0.00	2.52
104.00	0.00	459.077	0.000	0.00	0.00	5.10
104.25	0.00	935.435	0.000	0.00	0.00	10.39
104.50	0.00	1,411.941	0.000	0.00	0.00	15.69
104.75	0.38	1,885.100	0.000	0.00	0.38	21.32
105.00	1.06	2,353.786	0.000	0.00	1.06	27.21
105.25	1.95	2,814.308	0.000	0.00	1.95	33.22
105.50	3.00	3,265.020	0.000	0.00	3.00	39.28
105.75	4.19	3,699.879	0.000	0.00	4.19	45.30
106.00	5.51	4,114.257	0.000	0.00	5.51	51.23
106.25	6.95	4,489.716	0.000	0.00	6.95	56.83
106.50	8.49	4,811.931	0.000	0.00	8.49	61.95
106.75	10.13	5,119.834	0.000	0.00	10.13	67.01
107.00	11.86	5,434.568	0.000	0.00	11.86	72.24

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB37 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.50 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.30 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	103.92 ft
Volume (Peak)	380.365 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	381.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	380.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.2 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB37 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB37'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA37 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA37 Imp	381.067	1.05	0.30
Flow (In)	UGB37	381.067	1.05	0.30

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB4
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
85.10	0.00	0.000	0.098	0.00	0.00	0.00
85.35	0.00	430.166	0.100	0.05	0.05	4.83
85.60	0.00	867.457	0.101	0.05	0.05	9.69
85.85	0.00	1,771.828	0.103	0.05	0.05	19.74
86.10	0.00	2,670.322	0.105	0.05	0.05	29.72
86.35	0.38	3,559.217	0.106	0.05	0.43	39.98
86.60	1.06	4,437.267	0.108	0.05	1.12	50.42
86.85	1.95	5,298.734	0.110	0.06	2.00	60.88
87.10	3.00	6,142.081	0.112	0.06	3.06	71.30
87.35	4.19	6,958.450	0.114	0.06	4.25	81.57
87.60	5.51	7,744.479	0.115	0.06	5.57	91.62
87.85	6.95	8,481.661	0.117	0.06	7.00	101.24
88.10	8.49	9,147.387	0.119	0.06	8.55	110.18
88.35	10.13	9,708.515	0.121	0.06	10.19	118.06
88.60	11.86	10,238.912	0.123	0.06	11.92	125.69
88.85	13.68	10,777.380	0.125	0.06	13.74	133.49

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB4 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	85.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.01 ft³/s	Time to Peak (Flow, In)	1.05 hours
Infiltration (Peak)	0.05 ft³/s	Time to Peak (Infiltration)	1.80 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	85.65 ft
Volume (Peak)	1,056.473 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,254.000 ft³
Volume (Total Infiltration)	1,254.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB4 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB4'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA4 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA4 Imp	1,253.718	1.05	1.01
Flow (In)	UGB4	1,253.718	1.05	1.01

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB41
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.00	0.00	0.000	0.000	0.00	0.00	0.00
104.50	0.00	96.313	0.000	0.00	0.00	1.07
104.79	0.00	195.491	0.000	0.00	0.00	2.17
105.00	0.12	267.349	0.000	0.00	0.12	3.09
105.50	1.03	432.981	0.000	0.00	1.03	5.84
106.00	1.57	574.893	0.000	0.00	1.57	7.96
106.33	1.85	671.552	0.000	0.00	1.85	9.31

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB41 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.15 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	104.77 ft
Volume (Peak)	189.944 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	190.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	190.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB41 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB41'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA41 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA41 Imp	189.957	1.05	0.15
Flow (In)	UGB41	189.957	1.05	0.15

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB42
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
95.00	0.00	0.000	0.000	0.00	0.00	0.00
95.25	0.00	196.849	0.000	0.00	0.00	2.19
95.50	0.00	399.269	0.000	0.00	0.00	4.44
95.75	0.00	813.059	0.000	0.00	0.00	9.03
96.00	0.00	1,227.140	0.000	0.00	0.00	13.63
96.25	0.28	1,638.504	0.000	0.00	0.28	18.49
96.50	0.80	2,046.168	0.000	0.00	0.80	23.53
96.75	1.46	2,446.954	0.000	0.00	1.46	28.65
97.00	2.25	2,839.426	0.000	0.00	2.25	33.80
97.25	3.14	3,218.371	0.000	0.00	3.14	38.90
97.50	4.13	3,579.767	0.000	0.00	4.13	43.91
97.75	5.21	3,907.659	0.000	0.00	5.21	48.63
98.00	6.36	4,189.620	0.000	0.00	6.36	52.92
98.25	7.59	4,459.417	0.000	0.00	7.59	57.14
98.50	8.89	4,735.361	0.000	0.00	8.89	61.51

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB42 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	95.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.24 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	95.38 ft
Volume (Peak)	304.335 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	305.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	304.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.2 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB42 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB42'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA42 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA42 Imp	305.051	1.05	0.24
Flow (In)	UGB42	305.051	1.05	0.24

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB43
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
98.00	0.00	0.000	0.048	0.00	0.00	0.00
98.25	0.00	211.630	0.049	0.02	0.02	2.38
98.50	0.00	429.173	0.051	0.03	0.03	4.79
98.75	0.00	874.247	0.052	0.03	0.03	9.74
99.00	0.00	1,319.541	0.054	0.03	0.03	14.69
99.25	0.38	1,761.802	0.055	0.03	0.40	19.98
99.50	1.06	2,199.977	0.056	0.03	1.09	25.53
99.75	1.95	2,630.631	0.058	0.03	1.98	31.21
100.00	3.00	3,052.223	0.059	0.03	3.03	36.94
100.25	4.19	3,459.125	0.061	0.03	4.22	42.66
100.50	5.51	3,847.012	0.062	0.03	5.54	48.29
100.75	6.95	4,198.688	0.064	0.03	6.98	53.63
101.00	8.49	4,500.775	0.066	0.03	8.52	58.53
101.25	10.13	4,789.626	0.067	0.03	10.16	63.38
101.50	11.86	5,084.964	0.069	0.03	11.89	68.39

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB43 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	98.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.00 ft³/s	Time to Peak (Flow, In)	0.00 hours
Infiltration (Peak)	0.00 ft³/s	Time to Peak (Infiltration)	0.00 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	98.00 ft
Volume (Peak)	0.000 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	0.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB43 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB43'

Upstream Link	Upstream Node
Out44	UGB44

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Out44	0.000	0.00	0.00
Flow (In)	UGB43	0.000	0.00	0.00

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB44
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.00	0.00	0.000	0.048	0.00	0.00	0.00
101.25	0.00	211.630	0.049	0.02	0.02	2.38
101.50	0.00	429.173	0.051	0.03	0.03	4.79
101.75	0.00	874.247	0.052	0.03	0.03	9.74
102.00	0.00	1,319.541	0.054	0.03	0.03	14.69
102.25	0.38	1,761.802	0.055	0.03	0.40	19.98
102.50	1.06	2,199.977	0.056	0.03	1.09	25.53
102.75	1.95	2,630.631	0.058	0.03	1.98	31.21
103.00	3.00	3,052.223	0.059	0.03	3.03	36.94
103.25	4.19	3,459.125	0.061	0.03	4.22	42.66
103.50	5.51	3,847.012	0.062	0.03	5.54	48.29
103.75	6.95	4,198.688	0.064	0.03	6.98	53.63
104.00	8.49	4,500.775	0.066	0.03	8.52	58.53
104.25	10.13	4,789.626	0.067	0.03	10.16	63.38
104.50	11.86	5,084.964	0.069	0.03	11.89	68.39

WQ Basin Routings

Subsection: Pond Infiltration Calculations
Label: UGB44 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Average Infiltration Rating Table

Elevation (Water Surface) (ft)	Area (Total) (ft²)	Flow (Infiltration) (ft³/s)
101.00	2,084.4	0.00
101.25	2,145.8	0.02
101.50	2,207.6	0.03
101.75	2,270.0	0.03
102.00	2,332.8	0.03
102.25	2,396.1	0.03
102.50	2,460.0	0.03
102.75	2,524.3	0.03
103.00	2,589.2	0.03
103.25	2,654.5	0.03
103.50	2,720.3	0.03
103.75	2,786.7	0.03
104.00	2,853.5	0.03
104.25	2,920.9	0.03
104.50	2,988.7	0.03

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB44 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.15 ft³/s	Time to Peak (Flow, In)	1.05 hours
Infiltration (Peak)	0.01 ft³/s	Time to Peak (Infiltration)	1.75 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	101.14 ft
Volume (Peak)	121.782 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	163.000 ft³
Volume (Total Infiltration)	163.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB44 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB44'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA44 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA44 Imp	163.393	1.05	0.15
Flow (In)	UGB44	163.393	1.05	0.15

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB46
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.00	0.00	0.000	0.000	0.00	0.00	0.00
103.10	0.00	23.061	0.000	0.00	0.00	0.26
103.20	0.00	46.629	0.000	0.00	0.00	0.52
103.30	0.00	70.705	0.000	0.00	0.00	0.79
103.40	0.00	95.294	0.000	0.00	0.00	1.06
103.50	0.00	120.399	0.000	0.00	0.00	1.34
103.60	0.00	168.442	0.000	0.00	0.00	1.87
103.70	0.00	216.621	0.000	0.00	0.00	2.41
103.80	0.00	265.251	0.000	0.00	0.00	2.95
103.90	0.00	313.965	0.000	0.00	0.00	3.49
104.00	0.00	363.052	0.000	0.00	0.00	4.03
104.10	0.00	412.326	0.000	0.00	0.00	4.58
104.20	0.00	461.682	0.000	0.00	0.00	5.13
104.30	0.00	511.390	0.000	0.00	0.00	5.68
104.34	0.00	531.275	0.000	0.00	0.00	5.90
104.40	0.01	561.102	0.000	0.00	0.01	6.25
104.50	0.08	611.084	0.000	0.00	0.08	6.87
104.60	0.20	661.119	0.000	0.00	0.20	7.54
104.70	0.37	711.136	0.000	0.00	0.37	8.27
104.80	0.58	761.359	0.000	0.00	0.58	9.04
104.90	0.83	811.470	0.000	0.00	0.83	9.85
105.00	1.11	861.681	0.000	0.00	1.11	10.68
105.10	1.41	911.756	0.000	0.00	1.41	11.54
105.20	1.75	961.641	0.000	0.00	1.75	12.43
105.30	1.93	1,011.495	0.000	0.00	1.93	13.17
105.40	2.11	1,061.017	0.000	0.00	2.11	13.89
105.50	2.26	1,110.335	0.000	0.00	2.26	14.60
105.60	2.41	1,159.101	0.000	0.00	2.41	15.29
105.70	2.55	1,207.255	0.000	0.00	2.55	15.96

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB46
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
105.80	2.68	1,254.756	0.000	0.00	2.68	16.62
105.90	2.81	1,301.140	0.000	0.00	2.81	17.26
106.00	2.93	1,345.679	0.000	0.00	2.93	17.88
106.10	3.04	1,388.043	0.000	0.00	3.04	18.47
106.20	3.15	1,429.842	0.000	0.00	3.15	19.04
106.30	3.26	1,471.058	0.000	0.00	3.26	19.61
106.40	3.37	1,512.505	0.000	0.00	3.37	20.17
106.50	3.47	1,554.563	0.000	0.00	3.47	20.74
106.60	3.56	1,597.236	0.000	0.00	3.56	21.31
106.70	3.66	1,640.526	0.000	0.00	3.66	21.89
106.75	3.71	1,662.404	0.000	0.00	3.71	22.18

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB46 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	103.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.43 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	2.05 hours

Elevation (Water Surface, Peak)	104.34 ft
Volume (Peak)	533.445 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	534.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	2.000 ft³
Volume (Retained)	531.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB46 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB46'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA46 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA46 Imp	533.649	1.05	0.43
Flow (In)	UGB46	533.649	1.05	0.43

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB47
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
108.00	0.00	0.000	0.000	0.00	0.00	0.00
108.10	0.00	83.867	0.000	0.00	0.00	0.93
108.20	0.00	168.714	0.000	0.00	0.00	1.87
108.30	0.00	254.546	0.000	0.00	0.00	2.83
108.40	0.00	341.364	0.000	0.00	0.00	3.79
108.50	0.00	429.173	0.000	0.00	0.00	4.77
108.60	0.00	607.657	0.000	0.00	0.00	6.75
108.70	0.00	785.590	0.000	0.00	0.00	8.73
108.80	0.00	964.227	0.000	0.00	0.00	10.71
108.83	0.00	1,017.587	0.000	0.00	0.00	11.31
108.90	0.01	1,142.094	0.000	0.00	0.01	12.70
109.00	0.09	1,320.330	0.000	0.00	0.09	14.76
109.10	0.22	1,498.182	0.000	0.00	0.22	16.86
109.20	0.39	1,675.228	0.000	0.00	0.39	19.00
109.30	0.61	1,852.527	0.000	0.00	0.61	21.19
109.40	0.86	2,028.690	0.000	0.00	0.86	23.40
109.50	1.14	2,204.762	0.000	0.00	1.14	25.64
109.60	1.44	2,379.870	0.000	0.00	1.44	27.88
109.70	1.77	2,553.716	0.000	0.00	1.77	30.14
109.80	1.95	2,727.193	0.000	0.00	1.95	32.25
109.90	2.12	2,899.015	0.000	0.00	2.12	34.33
110.00	2.28	3,070.022	0.000	0.00	2.28	36.39
110.10	2.42	3,239.258	0.000	0.00	2.42	38.42
110.20	2.56	3,406.496	0.000	0.00	2.56	40.41
110.30	2.69	3,572.369	0.000	0.00	2.69	42.39
110.40	2.82	3,735.660	0.000	0.00	2.82	44.33
110.50	2.94	3,896.868	0.000	0.00	2.94	46.24
110.60	3.05	4,054.597	0.000	0.00	3.05	48.10
110.70	3.16	4,208.598	0.000	0.00	3.16	49.93

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB47
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
110.80	3.27	4,358.689	0.000	0.00	3.27	51.70
110.90	3.38	4,503.015	0.000	0.00	3.38	53.41
111.00	3.48	4,638.645	0.000	0.00	3.48	55.02
111.10	3.57	4,764.252	0.000	0.00	3.57	56.51
111.20	3.67	4,886.272	0.000	0.00	3.67	57.96
111.30	3.76	5,004.620	0.000	0.00	3.76	59.37
111.40	3.85	5,122.538	0.000	0.00	3.85	60.77
111.50	3.94	5,241.541	0.000	0.00	3.94	62.18
111.60	4.03	5,361.635	0.000	0.00	4.03	63.60
111.70	4.11	5,482.821	0.000	0.00	4.11	65.03
111.75	4.15	5,543.824	0.000	0.00	4.15	65.75

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB47 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.81 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	108.83 ft
Volume (Peak)	1,014.810 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,015.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	1,015.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB47 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB47'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA47 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA47 Imp	1,014.811	1.05	0.81
Flow (In)	UGB47	1,014.811	1.05	0.81

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB48
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.90	0.00	0.000	0.000	0.00	0.00	0.00
101.15	0.00	49.217	0.000	0.00	0.00	0.55
101.40	0.00	100.702	0.000	0.00	0.00	1.12
101.65	0.00	202.067	0.000	0.00	0.00	2.25
101.70	0.00	222.466	0.000	0.00	0.00	2.47
101.90	0.15	304.555	0.000	0.00	0.15	3.53
102.15	0.72	407.599	0.000	0.00	0.72	5.25
102.40	1.64	510.918	0.000	0.00	1.64	7.32
102.65	2.85	613.914	0.000	0.00	2.85	9.67
102.90	4.22	716.193	0.000	0.00	4.22	12.18
103.15	5.36	816.695	0.000	0.00	5.36	14.44
103.40	6.12	914.423	0.000	0.00	6.12	16.28
103.65	6.80	1,005.843	0.000	0.00	6.80	17.97
103.90	7.41	1,088.014	0.000	0.00	7.41	19.50
104.15	7.98	1,168.881	0.000	0.00	7.98	20.97
104.40	8.51	1,252.592	0.000	0.00	8.51	22.43

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB48 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.90 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.18 ft³/s	Time to Peak (Flow, In)	1.10 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	2.05 hours

Elevation (Water Surface, Peak)	101.70 ft
Volume (Peak)	224.047 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	225.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	3.000 ft³
Volume (Retained)	222.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB48 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB48'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA48 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA48 Imp	225.284	1.10	0.18
Flow (In)	UGB48	225.284	1.10	0.18

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB49
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
102.70	0.00	0.000	0.000	0.00	0.00	0.00
102.95	0.00	62.331	0.000	0.00	0.00	0.69
103.20	0.00	124.663	0.000	0.00	0.00	1.39
103.45	0.00	247.036	0.000	0.00	0.00	2.74
103.70	0.00	369.409	0.000	0.00	0.00	4.10
103.95	0.23	493.084	0.000	0.00	0.23	5.71
104.20	0.88	616.758	0.000	0.00	0.88	7.73
104.45	1.87	739.601	0.000	0.00	1.87	10.09
104.70	3.11	862.444	0.000	0.00	3.11	12.69
104.95	4.67	980.947	0.000	0.00	4.67	15.57
105.20	5.53	1,099.451	0.000	0.00	5.53	17.74
105.45	6.26	1,203.318	0.000	0.00	6.26	19.63
105.70	6.93	1,307.186	0.000	0.00	6.93	21.45
105.95	7.53	1,405.499	0.000	0.00	7.53	23.15
106.20	8.09	1,503.813	0.000	0.00	8.09	24.80

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB49 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	102.70 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.27 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	103.64 ft
Volume (Peak)	340.026 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	340.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	340.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB49 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB49'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA49 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA49 Imp	340.027	1.05	0.27
Flow (In)	UGB49	340.027	1.05	0.27

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB5
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
	1.80	94.66	362.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	1.00	0.33	0.00	0.00
Infiltration...	1.80	0.00	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	414.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	417.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	414.000 ft³
Volume (Total Out ICPM)	417.000 ft³
Volume (Ending)	0.000 ft³
Elevation (Ending)	94.00 ft
Difference	-3.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.8 %

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB50
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.00	0.00	0.000	0.000	0.00	0.00	0.00
101.10	0.00	23.061	0.000	0.00	0.00	0.26
101.20	0.00	46.629	0.000	0.00	0.00	0.52
101.30	0.00	70.705	0.000	0.00	0.00	0.79
101.40	0.00	95.294	0.000	0.00	0.00	1.06
101.50	0.00	120.399	0.000	0.00	0.00	1.34
101.60	0.00	168.442	0.000	0.00	0.00	1.87
101.70	0.00	216.621	0.000	0.00	0.00	2.41
101.80	0.00	265.251	0.000	0.00	0.00	2.95
101.90	0.00	313.965	0.000	0.00	0.00	3.49
102.00	0.00	363.052	0.000	0.00	0.00	4.03
102.10	0.00	412.326	0.000	0.00	0.00	4.58
102.20	0.00	461.682	0.000	0.00	0.00	5.13
102.30	0.00	511.390	0.000	0.00	0.00	5.68
102.40	0.00	561.102	0.000	0.00	0.00	6.23
102.50	0.00	611.084	0.000	0.00	0.00	6.79
102.60	0.00	661.119	0.000	0.00	0.00	7.35
102.70	0.00	711.136	0.000	0.00	0.00	7.90
102.80	0.00	761.359	0.000	0.00	0.00	8.46
102.90	0.03	811.470	0.000	0.00	0.03	9.05
103.00	0.12	861.681	0.000	0.00	0.12	9.69
103.10	0.26	911.756	0.000	0.00	0.26	10.39
103.20	0.45	961.641	0.000	0.00	0.45	11.13
103.30	0.68	1,011.495	0.000	0.00	0.68	11.91
103.40	0.94	1,061.017	0.000	0.00	0.94	12.73
103.50	1.22	1,110.335	0.000	0.00	1.22	13.56
103.60	1.53	1,159.101	0.000	0.00	1.53	14.41
103.70	1.83	1,207.255	0.000	0.00	1.83	15.24
103.80	2.00	1,254.756	0.000	0.00	2.00	15.95

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB50
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
103.90	2.17	1,301.140	0.000	0.00	2.17	16.63
104.00	2.32	1,345.679	0.000	0.00	2.32	17.28
104.10	2.47	1,388.043	0.000	0.00	2.47	17.89
104.20	2.60	1,429.842	0.000	0.00	2.60	18.49
104.30	2.73	1,471.058	0.000	0.00	2.73	19.08
104.40	2.86	1,512.505	0.000	0.00	2.86	19.66
104.50	2.97	1,554.563	0.000	0.00	2.97	20.25
104.60	3.09	1,597.236	0.000	0.00	3.09	20.83
104.70	3.20	1,640.526	0.000	0.00	3.20	21.43
104.75	3.25	1,662.404	0.000	0.00	3.25	21.72

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB50 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	101.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.61 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	102.80 ft
Volume (Peak)	759.760 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	760.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	760.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB50 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB50'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA50 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA50 Imp	759.760	1.05	0.61
Flow (In)	UGB50	759.760	1.05	0.61

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB54
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.00	0.00	0.000	0.000	0.00	0.00	0.00
99.10	0.00	53.273	0.000	0.00	0.00	0.59
99.20	0.00	107.190	0.000	0.00	0.00	1.19
99.30	0.00	161.753	0.000	0.00	0.00	1.80
99.40	0.00	216.966	0.000	0.00	0.00	2.41
99.50	0.00	272.832	0.000	0.00	0.00	3.03
99.60	0.00	354.104	0.000	0.00	0.00	3.93
99.63	0.00	378.469	0.000	0.00	0.00	4.21
99.70	0.02	435.319	0.000	0.00	0.02	4.85
99.80	0.10	516.417	0.000	0.00	0.10	5.83
99.90	0.24	597.237	0.000	0.00	0.24	6.87
100.00	0.43	677.619	0.000	0.00	0.43	7.96
100.10	0.68	757.238	0.000	0.00	0.68	9.09
100.20	0.97	836.261	0.000	0.00	0.97	10.26
100.30	1.31	914.260	0.000	0.00	1.31	11.46
100.40	1.67	990.994	0.000	0.00	1.67	12.68
100.50	2.05	1,066.095	0.000	0.00	2.05	13.90
100.60	2.45	1,138.009	0.000	0.00	2.45	15.10
100.70	2.85	1,205.899	0.000	0.00	2.85	16.25
100.80	3.09	1,272.391	0.000	0.00	3.09	17.23
100.90	3.32	1,338.064	0.000	0.00	3.32	18.18
101.00	3.53	1,404.109	0.000	0.00	3.53	19.13
101.10	3.72	1,470.859	0.000	0.00	3.72	20.07
101.20	3.91	1,538.316	0.000	0.00	3.91	21.00
101.30	4.09	1,606.484	0.000	0.00	4.09	21.94
101.33	4.15	1,629.366	0.000	0.00	4.15	22.25

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB54 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.30 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	2.05 hours

Elevation (Water Surface, Peak)	99.63 ft
Volume (Peak)	380.297 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	380.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	2.000 ft³
Volume (Retained)	378.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB54 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB54'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA54 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA54 Imp	380.471	1.05	0.30
Flow (In)	UGB54	380.471	1.05	0.30

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB55
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
106.00	0.00	0.000	0.000	0.00	0.00	0.00
106.25	0.00	1,399.733	0.000	0.00	0.00	15.55
106.50	0.00	2,811.077	0.000	0.00	0.00	31.23
106.75	0.00	5,814.153	0.000	0.00	0.00	64.60
106.79	0.00	6,292.683	0.000	0.00	0.00	69.92
107.00	0.29	8,787.585	0.000	0.00	0.29	97.93
107.25	0.94	11,705.228	0.000	0.00	0.94	130.99
107.50	1.79	14,561.879	0.000	0.00	1.79	163.59
107.75	3.57	17,330.037	0.000	0.00	3.57	196.13
108.00	6.11	20,001.073	0.000	0.00	6.11	228.35
108.25	9.19	22,531.773	0.000	0.00	9.19	259.54
108.50	12.71	24,893.676	0.000	0.00	12.71	289.30
108.75	16.62	26,960.872	0.000	0.00	16.62	316.18
109.00	20.88	28,640.299	0.000	0.00	20.88	339.10
109.25	25.47	30,188.484	0.000	0.00	25.47	360.89
109.50	30.35	31,748.856	0.000	0.00	30.35	383.12

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB55 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	106.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.83 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	106.18 ft
Volume (Peak)	1,024.545 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,026.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	1,025.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.1 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB55 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB55'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA55 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA55 Imp	1,025.769	1.05	0.83
Flow (In)	UGB55	1,025.769	1.05	0.83

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB56
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
110.00	0.00	0.000	0.000	0.00	0.00	0.00
110.25	0.00	2,158.429	0.000	0.00	0.00	23.98
110.50	0.00	4,331.090	0.000	0.00	0.00	48.12
110.75	0.00	8,970.777	0.000	0.00	0.00	99.68
111.00	0.00	13,560.593	0.000	0.00	0.00	150.67
111.25	0.38	18,059.601	0.000	0.00	0.38	201.04
111.50	1.06	22,460.020	0.000	0.00	1.06	250.62
111.75	1.95	26,718.800	0.000	0.00	1.95	298.82
112.00	3.00	30,822.844	0.000	0.00	3.00	345.48
112.25	4.19	34,704.704	0.000	0.00	4.19	389.80
112.50	5.51	38,320.503	0.000	0.00	5.51	431.29
112.75	7.70	41,474.399	0.000	0.00	7.70	468.52
113.00	10.61	44,022.227	0.000	0.00	10.61	499.74
113.25	14.02	46,361.873	0.000	0.00	14.02	529.15
113.50	17.86	48,716.328	0.000	0.00	17.86	559.15

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB56 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	110.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.84 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	110.41 ft
Volume (Peak)	3,544.566 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	3,546.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	3,545.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB56 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB56'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA56 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA56 Imp	3,546.282	1.05	2.84
Flow (In)	UGB56	3,546.282	1.05	2.84

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB57
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
111.10	0.00	0.000	0.000	0.00	0.00	0.00
111.35	0.00	1,184.722	0.000	0.00	0.00	13.16
111.60	0.00	2,381.965	0.000	0.00	0.00	26.47
111.85	0.00	4,923.241	0.000	0.00	0.00	54.70
112.10	0.00	7,439.193	0.000	0.00	0.00	82.66
112.35	0.00	9,918.256	0.000	0.00	0.00	110.20
112.50	0.00	11,386.653	0.000	0.00	0.00	126.52
112.60	0.07	12,357.425	0.000	0.00	0.07	137.38
112.85	0.47	14,739.278	0.000	0.00	0.47	164.24
113.10	1.05	17,059.980	0.000	0.00	1.05	190.60
113.35	1.76	19,293.060	0.000	0.00	1.76	216.13
113.60	2.60	21,429.413	0.000	0.00	2.60	240.70
113.85	3.53	23,414.597	0.000	0.00	3.53	263.69
114.10	4.55	25,183.781	0.000	0.00	4.55	284.37
114.35	5.66	26,640.306	0.000	0.00	5.66	301.67
114.60	6.85	27,998.226	0.000	0.00	6.85	317.94
114.85	8.11	29,369.838	0.000	0.00	8.11	334.44

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB57 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.35 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	111.45 ft
Volume (Peak)	1,670.154 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,672.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	1,670.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.1 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB57 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB57'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA57 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA57 Imp	1,671.624	1.05	1.35
Flow (In)	UGB57	1,671.624	1.05	1.35

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB59
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	104.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.02	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	2.15	104.07	1,318.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.05	1.04	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	1,326.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	1,326.000 ft³
Volume (Total Out ICPM)	0.000 ft³
Volume (Ending)	1,318.000 ft³
Elevation (Ending)	104.07 ft
Difference	8.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.6 %

WQ Basin Routings

Subsection: Interconnected Pond Routing Summary
Label: UGB6
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	94.00	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.02	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.05	hours

	Maximum Storage		
	Time to Peak (hours)	Elevation (ft)	Volume (ft³)
	2.00	94.85	540.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	1.10	0.47	0.00	0.00
Infiltration...	2.00	0.00	0.00	0.00
Pond Outflow...	0.00	0.00	0.00	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	605.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	601.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	605.000 ft³
Volume (Total Out ICPM)	601.000 ft³
Volume (Ending)	0.000 ft³
Elevation (Ending)	94.00 ft
Difference	3.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.5 %

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB60
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
111.10	0.00	0.000	0.000	0.00	0.00	0.00
111.35	0.00	1,184.722	0.000	0.00	0.00	13.16
111.60	0.00	2,381.965	0.000	0.00	0.00	26.47
111.85	0.00	4,923.241	0.000	0.00	0.00	54.70
112.10	0.00	7,439.193	0.000	0.00	0.00	82.66
112.35	0.38	9,918.256	0.000	0.00	0.38	110.58
112.60	1.06	12,357.425	0.000	0.00	1.06	138.37
112.85	1.95	14,739.278	0.000	0.00	1.95	165.72
113.10	3.00	17,059.980	0.000	0.00	3.00	192.56
113.35	4.19	19,293.060	0.000	0.00	4.19	218.56
113.60	5.51	21,429.413	0.000	0.00	5.51	243.62
113.85	6.95	23,414.597	0.000	0.00	6.95	267.11
114.10	8.49	25,183.781	0.000	0.00	8.49	288.31
114.35	10.13	26,640.306	0.000	0.00	10.13	306.13
114.60	11.86	27,998.226	0.000	0.00	11.86	322.95
114.85	13.68	29,369.838	0.000	0.00	13.68	340.01

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB60 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	111.10 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.53 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	111.50 ft
Volume (Peak)	1,897.903 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,900.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	1,898.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.1 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB60 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB60'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA60 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA60 Imp	1,899.573	1.05	1.53
Flow (In)	UGB60	1,899.573	1.05	1.53

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB61
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
107.75	0.00	0.000	0.000	0.00	0.00	0.00
108.00	0.00	270.754	0.000	0.00	0.00	3.01
108.25	0.00	548.789	0.000	0.00	0.00	6.10
108.50	0.16	1,119.850	0.000	0.00	0.16	12.60
108.75	0.58	1,690.158	0.000	0.00	0.58	19.36
109.00	1.08	2,257.662	0.000	0.00	1.08	26.17
109.25	1.37	2,821.365	0.000	0.00	1.37	32.72
109.50	1.61	3,377.970	0.000	0.00	1.61	39.14
109.75	1.81	3,926.294	0.000	0.00	1.81	45.44
110.00	2.00	4,461.108	0.000	0.00	2.00	51.57
110.25	2.17	4,980.093	0.000	0.00	2.17	57.50
110.50	2.33	5,472.031	0.000	0.00	2.33	63.13
110.75	2.47	5,922.658	0.000	0.00	2.47	68.28
111.00	2.61	6,311.610	0.000	0.00	2.61	72.74
111.25	2.74	6,684.691	0.000	0.00	2.74	77.02
111.50	2.87	7,066.006	0.000	0.00	2.87	81.38

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB61 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	107.75 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.59 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.34 ft³/s	Time to Peak (Flow, Outlet)	1.25 hours

Elevation (Water Surface, Peak)	108.61 ft
Volume (Peak)	1,365.174 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,982.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	1,434.000 ft³
Volume (Retained)	549.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB61 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB61'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA61 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA61 Imp	1,982.412	1.05	1.59
Flow (In)	UGB61	1,982.412	1.05	1.59

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB62
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
108.00	0.00	0.000	0.000	0.00	0.00	0.00
108.25	0.00	1,424.862	0.000	0.00	0.00	15.83
108.50	0.00	2,863.043	0.000	0.00	0.00	31.81
108.66	0.00	4,820.718	0.000	0.00	0.00	53.56
108.75	0.02	5,918.493	0.000	0.00	0.02	65.78
109.00	0.29	8,945.385	0.000	0.00	0.29	99.68
109.25	0.77	11,917.312	0.000	0.00	0.77	133.18
109.50	1.20	14,828.862	0.000	0.00	1.20	165.96
109.75	1.46	17,652.250	0.000	0.00	1.46	197.60
110.00	1.69	20,378.588	0.000	0.00	1.69	228.11
110.25	2.26	22,964.141	0.000	0.00	2.26	257.42
110.50	3.12	25,379.894	0.000	0.00	3.12	285.12
110.75	4.18	27,498.172	0.000	0.00	4.18	309.71
111.00	5.38	29,224.392	0.000	0.00	5.38	330.10
111.25	6.72	30,819.054	0.000	0.00	6.72	349.15
111.50	8.17	32,427.611	0.000	0.00	8.17	368.48

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB62 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	108.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.88 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	2.10 hours

Elevation (Water Surface, Peak)	108.66 ft
Volume (Peak)	4,842.325 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	4,842.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	21.000 ft³
Volume (Retained)	4,821.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB62 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB62'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA62 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA62 Imp	4,842.430	1.05	3.88
Flow (In)	UGB62	4,842.430	1.05	3.88

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB63
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
104.00	0.00	0.000	0.000	0.00	0.00	0.00
104.25	0.00	695.845	0.000	0.00	0.00	7.73
104.50	0.00	1,399.883	0.000	0.00	0.00	15.55
104.75	0.00	2,886.608	0.000	0.00	0.00	32.07
105.00	0.00	4,361.358	0.000	0.00	0.00	48.46
105.25	0.31	5,811.564	0.000	0.00	0.31	64.88
105.50	0.88	7,234.485	0.000	0.00	0.88	81.26
105.75	1.62	8,616.889	0.000	0.00	1.62	97.36
106.00	2.49	9,954.353	0.000	0.00	2.49	113.09
106.25	4.14	11,225.949	0.000	0.00	4.14	128.87
106.50	6.43	12,417.535	0.000	0.00	6.43	144.40
106.75	9.17	13,467.664	0.000	0.00	9.17	158.82
107.00	12.29	14,330.534	0.000	0.00	12.29	171.52
107.25	15.74	15,132.099	0.000	0.00	15.74	183.88
107.50	19.49	15,942.433	0.000	0.00	19.49	196.63

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB63 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	104.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.01 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	104.45 ft
Volume (Peak)	1,257.113 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	1,258.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	1,257.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB63 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB63'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA63 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA63 Imp	1,257.666	1.05	1.01
Flow (In)	UGB63	1,257.666	1.05	1.01

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB7
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
99.00	0.00	0.000	0.051	0.00	0.00	0.00
99.10	0.00	89.163	0.051	0.03	0.03	1.02
99.20	0.00	179.096	0.052	0.03	0.03	2.02
99.30	0.00	269.800	0.052	0.03	0.03	3.02
99.40	0.00	361.279	0.053	0.03	0.03	4.04
99.50	0.00	453.537	0.053	0.03	0.03	5.07
99.60	0.00	644.265	0.054	0.03	0.03	7.19
99.65	0.00	739.179	0.054	0.03	0.03	8.24
99.70	0.01	834.093	0.054	0.03	0.03	9.30
99.80	0.06	1,024.386	0.055	0.03	0.09	11.47
99.90	0.16	1,213.538	0.055	0.03	0.19	13.67
100.00	0.30	1,402.791	0.055	0.03	0.33	15.92
100.10	0.48	1,591.323	0.056	0.03	0.51	18.19
100.20	0.68	1,778.675	0.056	0.03	0.71	20.47
100.30	0.90	1,966.002	0.057	0.03	0.93	22.77
100.40	1.08	2,151.786	0.057	0.03	1.11	25.02
100.50	1.21	2,337.168	0.058	0.03	1.24	27.21
100.60	1.32	2,521.197	0.058	0.03	1.35	29.36
100.70	1.42	2,703.548	0.059	0.03	1.45	31.49
100.80	1.52	2,885.193	0.059	0.03	1.55	33.61
100.90	1.61	3,064.731	0.060	0.03	1.64	35.69
101.00	1.69	3,243.075	0.060	0.03	1.72	37.76
101.10	1.78	3,419.186	0.061	0.03	1.81	39.80
101.20	1.85	3,592.816	0.061	0.03	1.88	41.80
101.30	1.93	3,764.653	0.062	0.03	1.96	43.79
101.40	2.00	3,933.372	0.062	0.03	2.03	45.74
101.50	2.07	4,099.516	0.063	0.03	2.10	47.65
101.60	2.14	4,261.563	0.063	0.03	2.17	49.52

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 1 years
Label: UGB7 Storm Event: wq
Scenario: WQ

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
101.70	2.20	4,419.244	0.063	0.03	2.23	51.34
101.80	2.26	4,572.358	0.064	0.03	2.30	53.10
101.82	2.28	4,601.663	0.064	0.03	2.31	53.44
101.90	2.39	4,718.885	0.064	0.03	2.43	54.86
102.00	2.61	4,855.633	0.065	0.03	2.65	56.60
102.10	2.89	4,981.155	0.065	0.03	2.92	58.27
102.20	3.20	5,102.462	0.066	0.03	3.24	59.93
102.30	3.55	5,219.460	0.066	0.03	3.59	61.58
102.40	3.94	5,335.681	0.067	0.03	3.97	63.26
102.50	4.35	5,452.776	0.067	0.03	4.38	64.97
102.60	4.78	5,570.749	0.068	0.03	4.82	66.72
102.70	5.25	5,689.602	0.068	0.03	5.28	68.50
102.75	5.49	5,749.360	0.069	0.03	5.52	69.40

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary Return Event: 1 years
Label: UGB7 (IN) Storm Event: wq
Scenario: WQ

Infiltration	
Infiltration Method (Computed)	Average Infiltration Rate
Infiltration Rate (Average)	0.5000 in/h

Initial Conditions	
Elevation (Water Surface, Initial)	99.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.69 ft³/s	Time to Peak (Flow, In)	1.05 hours
Infiltration (Peak)	0.03 ft³/s	Time to Peak (Infiltration)	1.85 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	1.85 hours

Elevation (Water Surface, Peak)	99.65 ft
Volume (Peak)	742.369 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	867.000 ft³
Volume (Total Infiltration)	866.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	0.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB7 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB7'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA7 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA7 Imp	866.624	1.05	0.69
Flow (In)	UGB7	866.624	1.05	0.69

WQ Basin Routings

Subsection: Elevation-Volume-Flow Table (Pond)
Label: UGB9
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
100.30	0.00	0.000	0.000	0.00	0.00	0.00
100.55	0.00	137.724	0.000	0.00	0.00	1.53
100.80	0.00	279.653	0.000	0.00	0.00	3.11
101.05	0.00	568.306	0.000	0.00	0.00	6.31
101.30	0.00	857.538	0.000	0.00	0.00	9.53
101.55	0.56	1,145.313	0.000	0.00	0.56	13.29
101.80	1.59	1,430.932	0.000	0.00	1.59	17.49
102.05	2.92	1,712.245	0.000	0.00	2.92	21.95
102.30	4.50	1,988.238	0.000	0.00	4.50	26.59
102.55	6.29	2,255.355	0.000	0.00	6.29	31.35
102.80	8.27	2,510.788	0.000	0.00	8.27	36.16
103.05	10.42	2,743.545	0.000	0.00	10.42	40.90
103.30	12.73	2,944.999	0.000	0.00	12.73	45.45
103.55	15.19	3,138.583	0.000	0.00	15.19	50.06
103.80	17.79	3,336.947	0.000	0.00	17.79	54.87

WQ Basin Routings

Subsection: Level Pool Pond Routing Summary
Label: UGB9 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Water Surface, Initial)	100.30 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.05 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	0.64 ft³/s	Time to Peak (Flow, In)	1.05 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.00 hours

Elevation (Water Surface, Peak)	101.25 ft
Volume (Peak)	800.690 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	801.000 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	801.000 ft³
Volume (Unrouted)	0.000 ft³
Error (Mass Balance)	0.0 %

WQ Basin Routings

Subsection: Pond Inflow Summary
Label: UGB9 (IN)
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Summary for Hydrograph Addition at 'UGB9'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	DA9 Imp

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA9 Imp	800.675	1.05	0.64
Flow (In)	UGB9	800.675	1.05	0.64

WATER QUALITY MTD
SIZING CALCULATIONS

Pennoni
PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

PRINCETON NURSERIES UGB PRETREATMENT

PROJECT NAME: PRINCETON NURSERIES **DATE:** 1/15/2025
PROJECT NUMBER: WRNUL21003

LOCATION	TOTAL MV AREA TO BASIN	MIN POROUS ASPHALT	TOTAL POROUS ASPHALT	MTD	MTD TREATMENT AREA	WQ FLOW MTD (CFS)	BYPASS FLOW (CFS)	TP #	INFILTRATION (IN/HR)	TOTAL TREATED AREA	OK
UGB2	16825	4206.25	4341							17364	OK
UGB3	0	0	0							0	OK
UGB4A/B	9795	2448.75	3659	I-300	1492	0.10	0.86	TP33	1.45	16128	OK
UGB5	7470	1867.5	2466							9864	OK
UGB6	6178	1544.5	1650	I-87	1587	0.11	1.08	TP4	0.64	8187	OK
UGB7	17135	4283.75	4284								OK
UGB9	2224	556	0	I-71/I-74	2224	0.16	0.14	TP37	0.26	2224	OK
UGB10	5110	1277.5	0	I-304	5110	0.36	0.77	TP37	0.26	5110	OK
UGB11	5786	1446.5	1493							5972	OK
UGB13	3801	950.25	1364							5456	OK
UGB14	3026	756.5	759							3036	OK
UGB15	11253	2813.25	900	MH-52	9269	0.65	4.57	TP40	0.58	12869	OK
UGB16	25809	6452.25	2285	I-368	16669	1.16	6.12	TP7	0.59	25809	OK
UGB17	16933	4233.25	9382							37528	OK
UGB18	13348	3337	1979	I-309	7838	0.50	4.37	TP42	0.58	15754	OK
UGB19	3745	936.25	940							3760	OK
UGB20	3009	752.25	0	MH-15	3009	0.21	6.82	TP10	0.63	3009	OK
UGB21	7823	1955.75	932	I-545	5427	0.37	2.03	TP46	0.72	9155	OK
UGB22	18526	4631.5	9570							38280	OK
UGB27	0	0								0	OK
UGB31	10931	2732.75	2323	I-235	1639	0.11	3.28	TP46	0.72	10931	OK
UGB32	32577	8144.25	12961							51844	OK
UGB33	6231	1557.75	2540							10160	OK
UGB34	6849	1712.25	2342							9368	OK
UGB37	6167	1541.75	1948							7792	OK
UGB41	1888	472	0	MH-22	1888	0.13	0.79	TP46	0.72	1888	OK
UGB42	6030	1507.5	0	I-214	6030	0.42	3.77	TP24	0.36	6030	OK
UGB43	0	0	0		0					0	OK
UGB44	946	236.5	0	I-219	946	0.07	4.43	TP66	0.26	946	OK
UGB46	5460	1365	1414							5656	OK
UGB47	13934	3483.5	2574	I-470	3638	0.25	3.08	TP65	0	13934	OK
UGB48	2967	741.75	411	I-28	331	0.02	0.5	TP47	0.3	1975	OK
UGB49	5249	1312.25	1127	I-24	1530	0.11	0.62	TP13	0.46	6038	OK
UGB50	11684	2921	2475	I-227	1784	0.12	0.96	TP66	0.26	11684	OK
UGB54	26651	6662.75	10379							41516	OK
UGB55	48725	12181.25	13407							53628	OK
UGB56	36626	9156.5	19440							77760	OK
UGB57	34149	8537.25	14910							59640	OK
UGB59	16607	4151.75	1288	I-131	13411	0.92	4.03	TP51	0.09	18563	OK
UGB60	31284	7821	11309							45236	OK
UGB61	21002	5250.5	9665							38660	OK
UGB62	59029	14757.25	25193							100772	OK
UGB63	12766	3191.5	0	1	12766	0.89	5.83	TP60	0.26	12766	OK

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA10 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.015 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.26 ft/s
Segment Time of Concentration	0.022 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.025 ft/ft
Average Velocity	3.21 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.035 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA10 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA15 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	24.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.30 ft/s
Segment Time of Concentration	0.005 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	286.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.025 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	104.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.04 ft/s
Segment Time of Concentration	0.010 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.040 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA15 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA16 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.011
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.21 ft/s
Segment Time of Concentration	0.005 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	235.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.028 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	156.00 ft
Manning's n	0.015
Slope	0.008 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.92 ft/s
Segment Time of Concentration	0.011 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.044 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA16 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA18 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	50.00 ft
Manning's n	0.240
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.100 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.020 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	292.00 ft
Manning's n	0.015
Slope	0.027 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	7.44 ft/s
Segment Time of Concentration	0.011 hours

Segment #4: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	32.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.003 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.134 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA18 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA20 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	20.00 ft
Manning's n	0.011
Slope	0.025 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.12 ft/s
Segment Time of Concentration	0.005 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	208.00 ft
Is Paved?	True
Slope	0.012 ft/ft
Average Velocity	2.23 ft/s
Segment Time of Concentration	0.026 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	85.00 ft
Manning's n	0.015
Slope	0.047 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	9.81 ft/s
Segment Time of Concentration	0.002 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.033 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA20 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA21 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	58.00 ft
Manning's n	0.240
Slope	0.170 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.25 ft/s
Segment Time of Concentration	0.063 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	149.00 ft
Is Paved?	True
Slope	0.010 ft/ft
Average Velocity	2.03 ft/s
Segment Time of Concentration	0.020 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	40.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.003 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.087 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA21 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA31 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.022 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.47 ft/s
Segment Time of Concentration	0.019 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	295.00 ft
Is Paved?	True
Slope	0.034 ft/ft
Average Velocity	3.75 ft/s
Segment Time of Concentration	0.022 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	93.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.008 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.049 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA31 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA4 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.055 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	2.13 ft/s
Segment Time of Concentration	0.013 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	50.00 ft
Is Paved?	True
Slope	0.055 ft/ft
Average Velocity	4.77 ft/s
Segment Time of Concentration	0.003 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA4 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc =
R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA41 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	88.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.82 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.020 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA41 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA42 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.033 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.73 ft/s
Segment Time of Concentration	0.016 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	150.00 ft
Is Paved?	True
Slope	0.033 ft/ft
Average Velocity	3.69 ft/s
Segment Time of Concentration	0.011 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	46.00 ft
Manning's n	0.015
Slope	0.018 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	6.07 ft/s
Segment Time of Concentration	0.002 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.029 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA42 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA44 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	60.00 ft
Manning's n	0.011
Slope	0.012 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.04 ft/s
Segment Time of Concentration	0.016 hours

Segment #2: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	72.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.006 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.022 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA44 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA47 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.019 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.39 ft/s
Segment Time of Concentration	0.020 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	189.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.41 ft/s
Segment Time of Concentration	0.022 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	211.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.018 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.060 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA47 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA48 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	25.00 ft
Manning's n	0.240
Slope	0.030 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.11 ft/s
Segment Time of Concentration	0.065 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	117.00 ft
Is Paved?	True
Slope	0.015 ft/ft
Average Velocity	2.49 ft/s
Segment Time of Concentration	0.013 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.078 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA48 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA49 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.19 ft/s
Segment Time of Concentration	0.023 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	175.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.021 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	27.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.002 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.047 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA49 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA50 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.87 ft/s
Segment Time of Concentration	0.015 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	121.00 ft
Is Paved?	True
Slope	0.024 ft/ft
Average Velocity	3.15 ft/s
Segment Time of Concentration	0.011 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	140.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.012 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.038 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA50 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA59 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.014 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.24 ft/s
Segment Time of Concentration	0.022 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	250.00 ft
Is Paved?	True
Slope	0.014 ft/ft
Average Velocity	2.41 ft/s
Segment Time of Concentration	0.029 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	55.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.005 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.056 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA59 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA6 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	35.00 ft
Manning's n	0.240
Slope	0.050 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	0.14 ft/s
Segment Time of Concentration	0.069 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	68.00 ft
Is Paved?	True
Slope	0.045 ft/ft
Average Velocity	4.31 ft/s
Segment Time of Concentration	0.004 hours

Segment #3: TR-55 Channel Flow	
Flow Area	1.2 ft²
Hydraulic Length	60.00 ft
Manning's n	0.015
Slope	0.005 ft/ft
Wetted Perimeter	3.90 ft
Average Velocity	3.20 ft/s
Segment Time of Concentration	0.005 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.079 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA6 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA63 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	100.00 ft
Manning's n	0.011
Slope	0.013 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.17 ft/s
Segment Time of Concentration	0.024 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	115.00 ft
Is Paved?	True
Slope	0.036 ft/ft
Average Velocity	3.86 ft/s
Segment Time of Concentration	0.008 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.032 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA63 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc =
R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA9 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	22.00 ft
Manning's n	0.011
Slope	0.020 ft/ft
2 Year 24 Hour Depth	3.4 in
Average Velocity	1.05 ft/s
Segment Time of Concentration	0.006 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	174.00 ft
Is Paved?	True
Slope	0.013 ft/ft
Average Velocity	2.32 ft/s
Segment Time of Concentration	0.021 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.027 hours

Tc for MTD Sizing

Subsection: Time of Concentration Calculations
Label: DA9 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

==== SCS Channel Flow

Tc =
R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

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WQ HYDROGRAPHS FOR MTD SIZING

WQ Hydrographs for MTD Sizing

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA1 Imp	WQ	1	1,473.000	1.050	1.18
DA10 Imp	WQ	1	445.000	1.050	0.36
DA11 Imp	WQ	1	565.000	1.050	0.45
DA12A Imp	WQ	1	1,351.000	1.100	1.07
DA13 Imp	WQ	1	343.000	1.050	0.27
DA14 Imp	WQ	1	380.000	1.050	0.30
DA15 Imp	WQ	1	808.000	1.050	0.65
DA16 Imp	WQ	1	1,448.000	1.050	1.16
DA17 Imp	WQ	1	648.000	1.050	0.52
DA18 Imp	WQ	1	676.000	1.100	0.50
DA19 Imp	WQ	1	413.000	1.100	0.32
DA2 Imp	WQ	1	1,067.000	1.050	0.85
DA20 Imp	WQ	1	263.000	1.050	0.21
DA21 Imp	WQ	1	469.000	1.100	0.37
DA22 Imp	WQ	1	647.000	1.050	0.52
DA25 Imp	WQ	1	4,655.000	1.100	3.63
DA26 Imp	WQ	1	1,952.000	1.100	1.54
DA27	WQ	1	2,925.000	1.050	2.36
DA28 Imp	WQ	1	1,442.000	1.050	1.16
DA29 Imp	WQ	1	910.000	1.050	0.73
DA30 Imp	WQ	1	1,752.000	1.050	1.40
DA31 Imp	WQ	1	143.000	1.050	0.11
DA32 Imp	WQ	1	815.000	1.050	0.65
DA33 Imp	WQ	1	342.000	1.050	0.27
DA34 Imp	WQ	1	379.000	1.050	0.30
DA35 Imp	WQ	1	377.000	1.050	0.30
DA36 Imp	WQ	1	496.000	1.050	0.40
DA37 Imp	WQ	1	381.000	1.050	0.30
DA4 Imp	WQ	1	129.000	1.050	0.10
DA41 Imp	WQ	1	163.000	1.050	0.13
DA42 Imp	WQ	1	526.000	1.050	0.42
DA44 Imp	WQ	1	84.000	1.050	0.07
DA45 Imp	WQ	1	2,628.000	1.100	2.07
DA46 Imp	WQ	1	534.000	1.050	0.43
DA47 Imp	WQ	1	316.000	1.050	0.25
DA48 Imp	WQ	1	30.000	1.100	0.02
DA49 Imp	WQ	1	132.000	1.050	0.11
DA5 Imp	WQ	1	418.000	1.050	0.34
DA50 Imp	WQ	1	156.000	1.050	0.12
DA51 Imp	WQ	1	1,091.000	1.050	0.87
DA52 Imp	WQ	1	686.000	1.050	0.55
DA53 Imp	WQ	1	343.000	1.050	0.27
DA54 Imp	WQ	1	380.000	1.050	0.30

WQ Hydrographs for MTD Sizing

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DA55 Imp	WQ	1	1,026.000	1.050	0.83
DA56 Imp	WQ	1	3,547.000	1.050	2.84
DA57 Imp	WQ	1	1,672.000	1.050	1.35
DA58 Imp	WQ	1	4,034.000	1.050	3.23
DA59 Imp	WQ	1	1,159.000	1.050	0.92
DA6 Imp	WQ	1	135.000	1.100	0.11
DA60 Imp	WQ	1	1,900.000	1.050	1.53
DA61 Imp	WQ	1	1,981.000	1.050	1.59
DA62 Imp	WQ	1	4,842.000	1.050	3.87
DA63 Imp	WQ	1	1,116.000	1.050	0.89
DA7 Imp	WQ	1	233.000	1.050	0.19
DA9 Imp	WQ	1	194.000	1.050	0.16
EDA3 Perv	WQ	1	1.000	2.000	0.00
Future Imp Road-Basin 6 (S Brunswick)	WQ	1	1,144.000	1.050	0.92
PDA-6 Imp (Plainsboro)	WQ	1	18,174.000	1.150	10.50
PDA8 Imp	WQ	1	1,449.000	1.050	1.16

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
J 24	WQ	1	0.000	0.000	0.00
POI-1 Ex FE Barclay Square	WQ	1	0.000	0.000	0.00
POI-2 (Harry's Brook)	WQ	1	0.000	0.000	0.00
POI-3 Barclay Square Ex	WQ	1	1.000	2.000	0.00

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
BIO29 (IN)	WQ	1	910.000	1.050	0.73	(N/A)	(N/A)
BIO29 (OUT)	WQ	1	477.000	1.150	0.40	94.20	525.000
Bio1 (IN)	WQ	1	2,119.000	1.050	1.26	(N/A)	(N/A)
Bio1 (OUT)	WQ	1	0.000	0.000	0.00	77.31	1,479.000
Bio12 (IN)	WQ	1	1,684.000	1.100	1.19	(N/A)	(N/A)
Bio12 (OUT)	WQ	1	0.000	0.000	0.00	85.44	1,025.000

WQ Hydrographs for MTD Sizing

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
Bio25 (IN)	WQ	1	4,655.000	1.100	3.63	(N/A)	(N/A)
Bio25 (OUT)	WQ	1	0.000	0.000	0.00	100.30	4,062.000
Bio26 (IN)	WQ	1	3,672.000	1.100	2.12	(N/A)	(N/A)
Bio26 (OUT)	WQ	1	0.000	0.000	0.00	97.64	3,231.000
Bio28 (IN)	WQ	1	1,919.000	1.100	1.39	(N/A)	(N/A)
Bio28 (OUT)	WQ	1	0.000	0.000	0.00	91.07	285.000
Bio35 (IN)	WQ	1	380.000	1.050	0.30	(N/A)	(N/A)
Bio35 (OUT)	WQ	1	0.000	0.000	0.00	103.48	329.000
Bio36 (IN)	WQ	1	496.000	1.050	0.40	(N/A)	(N/A)
Bio36 (OUT)	WQ	1	0.000	0.000	0.00	98.58	493.000
Bio45 (IN)	WQ	1	6,471.000	1.100	2.57	(N/A)	(N/A)
Bio45 (OUT)	WQ	1	0.000	0.000	0.00	97.01	6,456.000
Bio51 (IN)	WQ	1	1,091.000	1.050	0.87	(N/A)	(N/A)
Bio51 (OUT)	WQ	1	0.000	0.000	0.00	102.33	900.000
Bio52 (IN)	WQ	1	686.000	1.050	0.55	(N/A)	(N/A)
Bio52 (OUT)	WQ	1	0.000	0.000	0.00	100.55	615.000
Bio53 (IN)	WQ	1	343.000	1.050	0.27	(N/A)	(N/A)
Bio53 (OUT)	WQ	1	0.000	0.000	0.00	104.91	335.000
Bio58 (IN)	WQ	1	4,062.000	1.050	3.20	(N/A)	(N/A)
Bio58 (OUT)	WQ	1	0.000	0.000	0.00	106.98	4,039.000
EX. BASIN 6 (IN)	WQ	1	19,318.000	1.150	10.84	(N/A)	(N/A)
EX. BASIN 6 (OUT)	WQ	1	0.000	0.000	0.00	89.34	19,281.000
Infil30 (IN)	WQ	1	1,752.000	1.050	1.38	(N/A)	(N/A)
Infil30 (OUT)	WQ	1	0.000	0.000	0.00	91.43	727.000
Infil8 (IN)	WQ	1	1,449.000	1.050	1.16	(N/A)	(N/A)
Infil8 (OUT)	WQ	1	604.000	1.250	0.15	109.72	896.000
UGB10 (IN)	WQ	1	445.000	1.050	0.36	(N/A)	(N/A)
UGB10 (OUT)	WQ	1	0.000	0.000	0.00	106.36	444.000
UGB11 (IN)	WQ	1	565.000	1.050	0.45	(N/A)	(N/A)
UGB11 (OUT)	WQ	1	42.000	1.500	0.03	85.00	418.000
UGB13 (IN)	WQ	1	342.000	1.050	0.27	(N/A)	(N/A)
UGB13 (OUT)	WQ	1	0.000	0.000	0.00	86.87	343.000
UGB14 (IN)	WQ	1	381.000	1.050	0.30	(N/A)	(N/A)
UGB14 (OUT)	WQ	1	0.000	0.000	0.00	87.19	380.000
UGB15 (IN)	WQ	1	811.000	1.050	0.64	(N/A)	(N/A)

WQ Hydrographs for MTD Sizing

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB15 (OUT)	WQ	1	0.000	0.000	0.00	92.29	808.000
UGB16 (IN)	WQ	1	1,456.000	1.050	1.15	(N/A)	(N/A)
UGB16 (OUT)	WQ	1	0.000	0.000	0.00	94.37	1,450.000
UGB17 (IN)	WQ	1	648.000	1.050	0.52	(N/A)	(N/A)
UGB17 (OUT)	WQ	1	0.000	0.000	0.00	110.64	647.000
UGB18 (IN)	WQ	1	739.000	1.100	0.50	(N/A)	(N/A)
UGB18 (OUT)	WQ	1	78.000	1.850	0.05	95.03	688.000
UGB19 (IN)	WQ	1	414.000	1.100	0.32	(N/A)	(N/A)
UGB19 (OUT)	WQ	1	63.000	1.350	0.04	95.07	275.000
UGB2 (IN)	WQ	1	1,066.000	1.050	0.84	(N/A)	(N/A)
UGB2 (OUT)	WQ	1	0.000	0.000	0.00	85.86	1,067.000
UGB20 (IN)	WQ	1	721.000	1.100	0.55	(N/A)	(N/A)
UGB20 (OUT)	WQ	1	0.000	0.000	0.00	97.29	403.000
UGB21 (IN)	WQ	1	469.000	1.100	0.37	(N/A)	(N/A)
UGB21 (OUT)	WQ	1	456.000	1.100	0.36	98.79	27.000
UGB22 (IN)	WQ	1	647.000	1.050	0.52	(N/A)	(N/A)
UGB22 (OUT)	WQ	1	0.000	0.000	0.00	107.16	647.000
UGB27 (IN)	WQ	1	2,925.000	1.050	2.36	(N/A)	(N/A)
UGB27 (OUT)	WQ	1	1,720.000	1.150	0.70	100.22	1,836.000
UGB3 (IN)	WQ	1	0.000	0.000	0.00	(N/A)	(N/A)
UGB3 (OUT)	WQ	1	0.000	0.000	0.00	85.50	0.000
UGB31 (IN)	WQ	1	143.000	1.050	0.11	(N/A)	(N/A)
UGB31 (OUT)	WQ	1	0.000	0.000	0.00	92.71	142.000
UGB32 (IN)	WQ	1	815.000	1.050	0.65	(N/A)	(N/A)
UGB32 (OUT)	WQ	1	0.000	0.000	0.00	109.95	814.000
UGB33 (IN)	WQ	1	342.000	1.050	0.27	(N/A)	(N/A)
UGB33 (OUT)	WQ	1	0.000	0.000	0.00	106.19	342.000
UGB34 (IN)	WQ	1	379.000	1.050	0.30	(N/A)	(N/A)
UGB34 (OUT)	WQ	1	0.000	0.000	0.00	109.74	379.000
UGB37 (IN)	WQ	1	381.000	1.050	0.30	(N/A)	(N/A)

WQ Hydrographs for MTD Sizing

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB37 (OUT)	WQ	1	0.000	0.000	0.00	103.92	380.000
UGB4 (IN)	WQ	1	129.000	1.050	0.10	(N/A)	(N/A)
UGB4 (OUT)	WQ	1	0.000	0.000	0.00	85.16	95.000
UGB41 (IN)	WQ	1	163.000	1.050	0.13	(N/A)	(N/A)
UGB41 (OUT)	WQ	1	0.000	0.000	0.00	104.79	163.000
UGB42 (IN)	WQ	1	526.000	1.050	0.42	(N/A)	(N/A)
UGB42 (OUT)	WQ	1	0.000	0.000	0.00	95.58	526.000
UGB43 (IN)	WQ	1	0.000	0.000	0.00	(N/A)	(N/A)
UGB43 (OUT)	WQ	1	0.000	0.000	0.00	98.00	0.000
UGB44 (IN)	WQ	1	84.000	1.050	0.07	(N/A)	(N/A)
UGB44 (OUT)	WQ	1	0.000	0.000	0.00	101.07	61.000
UGB46 (IN)	WQ	1	534.000	1.050	0.43	(N/A)	(N/A)
UGB46 (OUT)	WQ	1	413.000	1.100	0.27	103.79	263.000
UGB47 (IN)	WQ	1	316.000	1.050	0.25	(N/A)	(N/A)
UGB47 (OUT)	WQ	1	0.000	0.000	0.00	108.37	315.000
UGB48 (IN)	WQ	1	30.000	1.100	0.02	(N/A)	(N/A)
UGB48 (OUT)	WQ	1	0.000	0.000	0.00	101.05	30.000
UGB49 (IN)	WQ	1	132.000	1.050	0.11	(N/A)	(N/A)
UGB49 (OUT)	WQ	1	0.000	0.000	0.00	103.28	132.000
UGB5 (IN)	WQ	1	414.000	1.000	0.33	(N/A)	(N/A)
UGB5 (OUT)	WQ	1	0.000	0.000	0.00	94.66	362.000
UGB50 (IN)	WQ	1	156.000	1.050	0.12	(N/A)	(N/A)
UGB50 (OUT)	WQ	1	0.000	0.000	0.00	101.57	155.000
UGB54 (IN)	WQ	1	380.000	1.050	0.30	(N/A)	(N/A)
UGB54 (OUT)	WQ	1	255.000	1.150	0.15	99.71	227.000
UGB55 (IN)	WQ	1	1,026.000	1.050	0.83	(N/A)	(N/A)
UGB55 (OUT)	WQ	1	0.000	0.000	0.00	106.18	1,025.000
UGB56 (IN)	WQ	1	3,547.000	1.050	2.84	(N/A)	(N/A)
UGB56 (OUT)	WQ	1	0.000	0.000	0.00	110.41	3,545.000
UGB57 (IN)	WQ	1	1,672.000	1.050	1.35	(N/A)	(N/A)

WQ Hydrographs for MTD Sizing

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UGB57 (OUT)	WQ	1	0.000	0.000	0.00	111.45	1,670.000
UGB59 (IN)	WQ	1	1,168.000	1.050	0.91	(N/A)	(N/A)
UGB59 (OUT)	WQ	1	0.000	0.000	0.00	104.16	1,160.000
UGB6 (IN)	WQ	1	136.000	1.100	0.11	(N/A)	(N/A)
UGB6 (OUT)	WQ	1	0.000	0.000	0.00	94.23	100.000
UGB60 (IN)	WQ	1	1,900.000	1.050	1.53	(N/A)	(N/A)
UGB60 (OUT)	WQ	1	0.000	0.000	0.00	111.50	1,898.000
UGB61 (IN)	WQ	1	1,981.000	1.050	1.59	(N/A)	(N/A)
UGB61 (OUT)	WQ	1	1,432.000	1.250	0.34	108.61	1,364.000
UGB62 (IN)	WQ	1	4,842.000	1.050	3.87	(N/A)	(N/A)
UGB62 (OUT)	WQ	1	1,978.000	2.000	0.09	108.64	4,600.000
UGB63 (IN)	WQ	1	1,116.000	1.050	0.89	(N/A)	(N/A)
UGB63 (OUT)	WQ	1	0.000	0.000	0.00	104.40	1,115.000
UGB7 (IN)	WQ	1	233.000	1.050	0.19	(N/A)	(N/A)
UGB7 (OUT)	WQ	1	0.000	0.000	0.00	99.19	156.000
UGB9 (IN)	WQ	1	194.000	1.050	0.16	(N/A)	(N/A)
UGB9 (OUT)	WQ	1	0.000	0.000	0.00	100.65	194.000

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.035 hours
Area (User Defined)	0.117 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	1.083 hours
Flow (Peak, Computed)	0.36 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.36 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.117 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	439.393 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	445.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.035 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA10 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	3.80 ft³/s
Unit peak time, Tp	0.023 hours
Unit receding limb, Tr	0.093 hours
Total unit time, Tb	0.116 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.040 hours
Area (User Defined)	0.213 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	1.084 hours
Flow (Peak, Computed)	0.66 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.65 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.213 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	799.921 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	808.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.040 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA15 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.05 ft³/s
Unit peak time, Tp	0.027 hours
Unit receding limb, Tr	0.106 hours
Total unit time, Tb	0.133 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.044 hours
Area (User Defined)	0.383 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	1.081 hours
Flow (Peak, Computed)	1.18 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	1.16 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.383 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,438.355 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,448.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.044 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA16 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	9.90 ft³/s
Unit peak time, Tp	0.029 hours
Unit receding limb, Tr	0.117 hours
Total unit time, Tb	0.146 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.134 hours
Area (User Defined)	0.180 acres

Computational Time Increment	0.018 hours
Time to Peak (Computed)	1.112 hours
Flow (Peak, Computed)	0.50 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.100 hours
Flow (Peak Interpolated Output)	0.50 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.180 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	675.990 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	676.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.134 hours
Computational Time Increment	0.018 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA18 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.52 ft³/s
Unit peak time, Tp	0.090 hours
Unit receding limb, Tr	0.359 hours
Total unit time, Tb	0.448 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.033 hours
Area (User Defined)	0.069 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	1.083 hours
Flow (Peak, Computed)	0.21 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.21 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.069 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	259.129 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	263.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.033 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA20 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.35 ft³/s
Unit peak time, Tp	0.022 hours
Unit receding limb, Tr	0.089 hours
Total unit time, Tb	0.111 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.087 hours
Area (User Defined)	0.125 acres

Computational Time Increment	0.012 hours
Time to Peak (Computed)	1.093 hours
Flow (Peak, Computed)	0.37 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.100 hours
Flow (Peak Interpolated Output)	0.37 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.125 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	469.437 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	469.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.087 hours
Computational Time Increment	0.012 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA21 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.62 ft³/s
Unit peak time, Tp	0.058 hours
Unit receding limb, Tr	0.233 hours
Total unit time, Tb	0.291 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.049 hours
Area (User Defined)	0.038 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	1.080 hours
Flow (Peak, Computed)	0.12 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.11 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.038 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	142.709 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	143.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.049 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA31 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.88 ft³/s
Unit peak time, Tp	0.033 hours
Unit receding limb, Tr	0.130 hours
Total unit time, Tb	0.163 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.034 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	1.083 hours
Flow (Peak, Computed)	0.11 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.10 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.034 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	127.687 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	129.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA4 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.93 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.020 hours
Area (User Defined)	0.043 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	1.083 hours
Flow (Peak, Computed)	0.13 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.13 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.043 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	161.486 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	163.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.020 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA41 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	2.44 ft³/s
Unit peak time, Tp	0.013 hours
Unit receding limb, Tr	0.053 hours
Total unit time, Tb	0.067 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.029 hours
Area (User Defined)	0.138 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	1.083 hours
Flow (Peak, Computed)	0.43 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.42 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.138 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	518.259 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	526.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.029 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA42 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	5.31 ft³/s
Unit peak time, Tp	0.020 hours
Unit receding limb, Tr	0.078 hours
Total unit time, Tb	0.098 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.022 hours
Area (User Defined)	0.022 acres

Computational Time Increment	0.003 hours
Time to Peak (Computed)	1.081 hours
Flow (Peak, Computed)	0.07 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.07 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.022 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	82.621 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	84.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.022 hours
Computational Time Increment	0.003 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA44 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.12 ft³/s
Unit peak time, Tp	0.015 hours
Unit receding limb, Tr	0.059 hours
Total unit time, Tb	0.074 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.060 hours
Area (User Defined)	0.084 acres

Computational Time Increment	0.008 hours
Time to Peak (Computed)	1.082 hours
Flow (Peak, Computed)	0.26 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.25 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.084 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	315.462 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	316.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.060 hours
Computational Time Increment	0.008 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA47 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.58 ft³/s
Unit peak time, Tp	0.040 hours
Unit receding limb, Tr	0.160 hours
Total unit time, Tb	0.200 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.078 hours
Area (User Defined)	0.008 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	1.089 hours
Flow (Peak, Computed)	0.02 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.100 hours
Flow (Peak Interpolated Output)	0.02 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.008 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	30.044 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	30.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.078 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA48 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.12 ft³/s
Unit peak time, Tp	0.052 hours
Unit receding limb, Tr	0.207 hours
Total unit time, Tb	0.259 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.047 hours
Area (User Defined)	0.035 acres

Computational Time Increment	0.006 hours
Time to Peak (Computed)	1.081 hours
Flow (Peak, Computed)	0.11 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.11 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.035 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	131.442 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	132.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.047 hours
Computational Time Increment	0.006 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA49 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.85 ft³/s
Unit peak time, Tp	0.031 hours
Unit receding limb, Tr	0.124 hours
Total unit time, Tb	0.155 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.038 hours
Area (User Defined)	0.041 acres

Computational Time Increment	0.005 hours
Time to Peak (Computed)	1.080 hours
Flow (Peak, Computed)	0.13 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.12 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.041 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	153.975 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	156.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.038 hours
Computational Time Increment	0.005 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA50 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	1.23 ft³/s
Unit peak time, Tp	0.025 hours
Unit receding limb, Tr	0.100 hours
Total unit time, Tb	0.126 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.056 hours
Area (User Defined)	0.308 acres

Computational Time Increment	0.007 hours
Time to Peak (Computed)	1.085 hours
Flow (Peak, Computed)	0.94 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.92 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.308 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,156.693 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,159.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.056 hours
Computational Time Increment	0.007 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA59 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	6.22 ft³/s
Unit peak time, Tp	0.037 hours
Unit receding limb, Tr	0.150 hours
Total unit time, Tb	0.187 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.079 hours
Area (User Defined)	0.036 acres

Computational Time Increment	0.010 hours
Time to Peak (Computed)	1.090 hours
Flow (Peak, Computed)	0.11 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.100 hours
Flow (Peak Interpolated Output)	0.11 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.036 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	135.198 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	135.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.079 hours
Computational Time Increment	0.010 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA6 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	0.52 ft³/s
Unit peak time, Tp	0.052 hours
Unit receding limb, Tr	0.210 hours
Total unit time, Tb	0.262 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.032 hours
Area (User Defined)	0.293 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	1.081 hours
Flow (Peak, Computed)	0.90 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.89 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.293 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	1,100.361 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,116.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.032 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA63 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

SCS Unit Hydrograph Parameters	
Unit peak, qp	10.40 ft³/s
Unit peak time, Tp	0.021 hours
Unit receding limb, Tr	0.085 hours
Total unit time, Tb	0.106 hours

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

Storm Event	wq
Return Event	1 years
Duration	48.000 hours
Depth	1.3 in
Time of Concentration (Composite)	0.027 hours
Area (User Defined)	0.051 acres

Computational Time Increment	0.004 hours
Time to Peak (Computed)	1.082 hours
Flow (Peak, Computed)	0.16 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	1.050 hours
Flow (Peak Interpolated Output)	0.16 ft³/s

Drainage Area	
SCS CN (Composite)	98.000
Area (User Defined)	0.051 acres
Maximum Retention (Pervious)	0.2 in
Maximum Retention (Pervious, 20 percent)	0.0 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.0 in
Runoff Volume (Pervious)	191.530 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	194.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.027 hours
Computational Time Increment	0.004 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WQ Hydrographs for MTD Sizing

Subsection: Unit Hydrograph Summary
Label: DA9 Imp
Scenario: WQ

Return Event: 1 years
Storm Event: wq

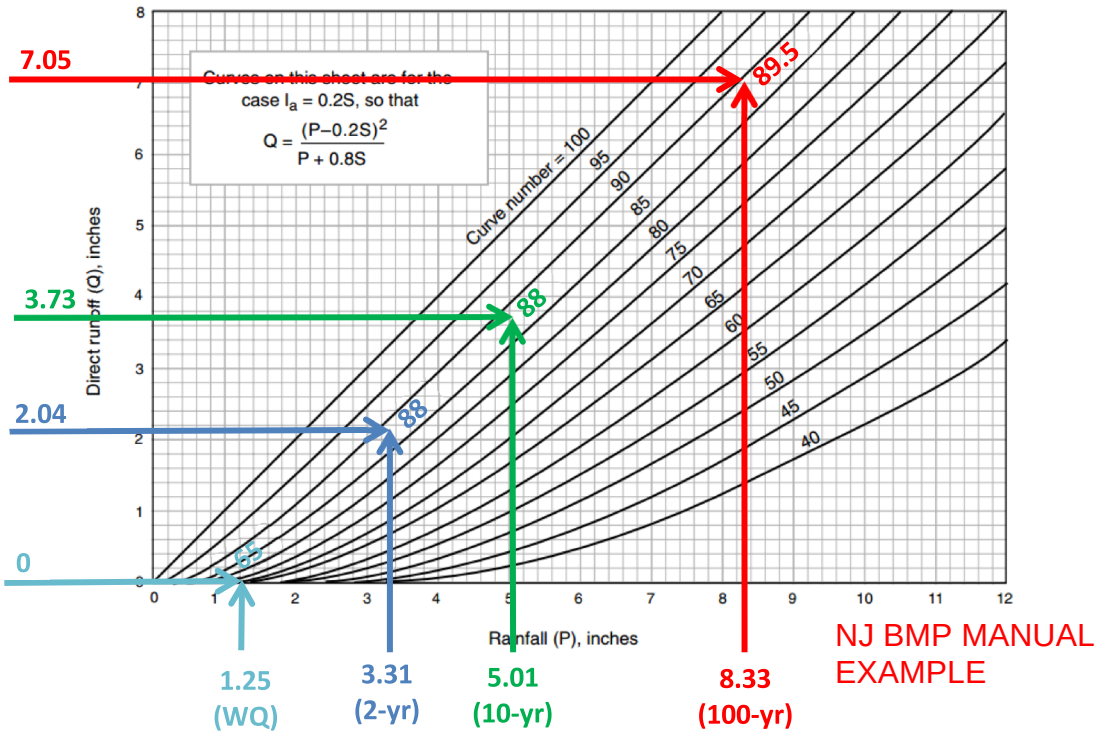
SCS Unit Hydrograph Parameters	
Unit peak, qp	2.17 ft³/s
Unit peak time, Tp	0.018 hours
Unit receding limb, Tr	0.071 hours
Total unit time, Tb	0.089 hours

POROUS ASPHALT CURVE NUMBER CALCULATIONS

Step 5: Reduced CN

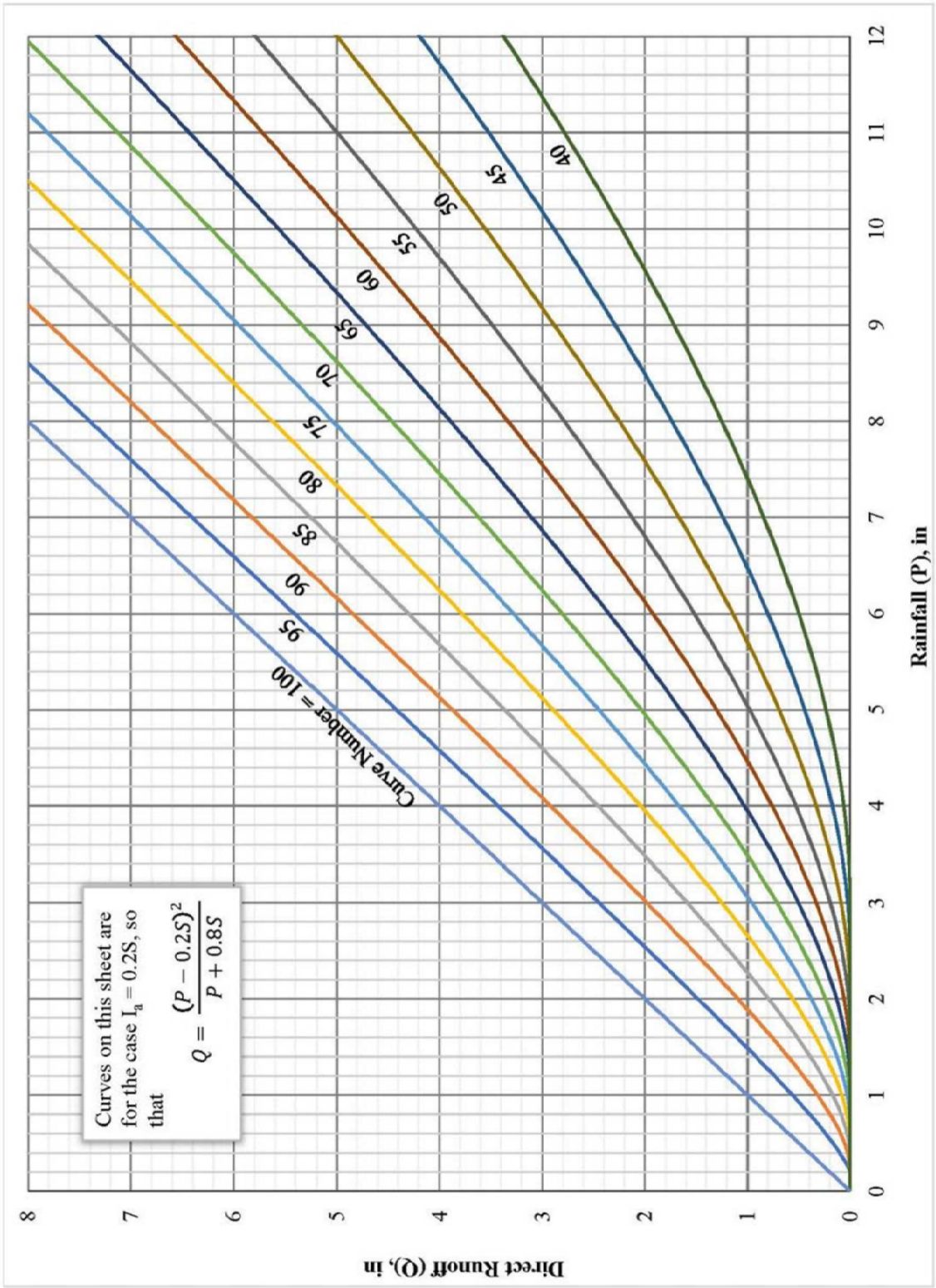
The volume retained in the pervious paving system reduces the direct runoff leaving the site. Therefore, a reduced CN can be calculated by using the reduced direct runoff, rainfall depth and Fig 2-1 in *NEH, Part 630*, Chapter 2, as shown in the graph following the table below. The contributory drainage area is 1.25 acre including the pervious driveway, aisles, permeable asphalt and the roof area.

Storm Event	Rainfall (in)	Direct Runoff Volume without Pervious Paving (cf)	Retention Volume (cf)	Runoff Volume Leaving Pervious Paving (cf)	Reduced Direct Runoff (in)	Reduced CN (from Graph)
WQ	1.25	4,695	4,694	0	0.00	65
2-year	3.31	13,946	4,694	9,252	2.04	88
10-year	5.01	21,633	4,694	16,939	3.73	88
100-year	8.33	36,666	4,694	31,972	7.05	89.5



The Reduced CN can be used to calculate the runoff volume. However, when calculating peak flow rate, a routing calculation must be performed on the pervious paving system.

Figure 2-8: Solution to the NRCS Runoff Equation



POND PACK

SCS CN Runoff Equation

The SCS Runoff equation is used with the SCS Unit Hydrograph method to turn rainfall into runoff. It is an empirical method that expresses how much runoff volume is generated by a certain volume of rainfall.

The variable input parameters of the equation are the rainfall amount for a given duration and the basin's runoff curve number (CN). For convenience, the runoff amount is typically referred to as a runoff volume even though it is expressed in units of depth (in., mm). In fact, this runoff depth is a normalized volume since it is generally distributed over a sub-basin or catchment area.

In hydrograph analysis the SCS runoff equation is applied against an incremental burst of rain to generate a runoff quantity. This runoff quantity is then distributed according to the unit hydrograph procedure, which ultimately develops the full runoff hydrograph.

The general form of the equation (U.S. customary units) is:

$$Q = \frac{(P - I_a)^2}{(P - I_a) + S} \qquad (9.22)$$

Where	Q	=	Runoff depth (in)
	P	=	Rainfall (in)
	S	=	Maximum retention after runoff begins (in)
	I_a	=	Initial abstraction

The initial abstraction includes water captured by vegetation, depression storage, evaporation, and infiltration. For any P, this abstraction must be satisfied before any runoff is possible. The universal default for the initial abstraction is given by the equation:

$$I_a = 0.2S \qquad (9.23)$$

The ratio, 0.2, is rarely, if ever, modified.

The potential maximum retention after runoff begins, S, is related to the soil and land use/vegetative cover characteristics of the watershed by the equation:

$$S = \frac{1000}{CN} - 10 \qquad (9.24)$$

Where the runoff curve number is developed by coincidental tabulation of soil/land use extents in the weighted runoff curve number parameter, CN.

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REDUCED CURVE NUMBER CALCULATIONS

REPRESENTED LOCATION	STORM EVENT	RAINFALL (IN)	DIRECT RAINFALL VOLUME PERVIOUS PAVING Cn 98 (CF)	12" THK STONE STORAGE BED WITH 40% STONE VOID RETENTION VOLUME (CF)	RUNOFF VOLUME LEAVING PERVIOUS PAVING (CF)	REDUCED DIRECT RUNOFF (IN)	RAINFALL VOLUME REDUCED CURVE NUMBER (CF)	ALLOWABLE REDUCED CN (SCS CN VOLUME DETAILED REPORT)	REDUCED CN UTILIZED FOR DESIGN
Alley 4 - townhome driveway group large	100yr projected	11.5	2371	1001	1370	7.6	1,598	70	90
Alley 10 - townhome driveway group large	100yr projected	11.5	2821	1202	1451	6.9	1,721	65	90
Road B - large single family driveway	100yr projected	11.5	736	314	422	7.6	496	70	90
Road M - townhome driveway single large	100yr projected	11.5	531	227	304	6.4	304	62	90
Porous Pavement DA to UGB 17	100 yr projected	11.5	11,445	3,659	7,786	7.9	7,997	72	90
Porous Pavement DA to UGB 22	100 yr projected	11.5	8,584	3,569	5,015	5.4	5,479	55	90
Porous Pavement DA to UGB 32	100 yr projected	11.5	13,490	2,569	10,918	9.2	11,056	82	90
Porous Pavement DA to UGB 56	100 yr projected	11.5	34,338	14,494	19,844	6.6	20,069	63	90
Porous Pavement DA to UGB 58	100 yr projected	11.5	18,804	8,015	10,789	9.6	10,829	85	90
Porous Pavement DA to UGB 60	100 yr projected	11.5	12,672	5,402	7,270	6.6	7,406	63	90

SCS CN Volume Detailed Report: SCS CN Volume - Alley 4

Element Details			
ID	97	Notes	
Label	SCS CN Volume - Alley 4		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous Alley 4 Large Driveway Grouping	98.000	0.058	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.058	(N/A)	(N/A)	98.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous Alley 4 Large Driveway Grouping	98.000	11.3	0.058	2,370.401
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	2,370.401

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous Alley 4 Large Driveway Grouping	98.000	0.058	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	98.000	0.058	11.3	2,370.401

SCS CN Volume Detailed Report: Reduced SCS CN Volume - Alley 4

Element Details		
ID	96	Notes
Label	Reduced SCS CN Volume - Alley 4	

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous Alley 4 Reduced CN Large Driveway Grouping	70.000	0.058	0.0	0.0	70.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.058	(N/A)	(N/A)	70.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous Alley 4 Reduced CN Large Driveway Grouping	70.000	7.6	0.058	1,597.470
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	1,597.470

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous Alley 4 Reduced CN Large Driveway Grouping	70.000	0.058	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	70.000	0.058	7.6	1,597.470

SCS CN Volume Detailed Report: SCS CN Volume - Alley 10

Element Details			
ID	95	Notes	
Label	SCS CN Volume - Alley 10		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous Alley 10 Large Driveway Grouping	98.000	0.069	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.069	(N/A)	(N/A)	98.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous Alley 10 Large Driveway Grouping	98.000	11.3	0.069	2,819.960
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	2,819.960

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous Alley 10 Large Driveway Grouping	98.000	0.069	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	98.000	0.069	11.3	2,819.960

SCS CN Volume Detailed Report: Reduced SCS CN Volume - Alley 10

Element Details		
ID	100	Notes
Label	Reduced SCS CN Volume - Alley 10	

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous Alley 10 Large Driveway Grouping Reduced CN	65.000	0.069	0.0	0.0	65.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.069	(N/A)	(N/A)	65.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous Alley 10 Large Driveway Grouping Reduced CN	65.000	6.9	0.069	1,721.389
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	1,721.389

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous Alley 10 Large Driveway Grouping Reduced CN	65.000	0.069	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	65.000	0.069	6.9	1,721.389

SCS CN Volume Detailed Report: SCS CN Volume - Road B Driveway

Element Details		
ID	101	Notes
Label	SCS CN Volume - Road B Driveway	

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous Road B Large Single Driveway	98.000	0.018	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.018	(N/A)	(N/A)	98.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous Road B Large Single Driveway	98.000	11.3	0.018	735.642
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	735.642

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous Road B Large Single Driveway	98.000	0.018	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	98.000	0.018	11.3	735.642

SCS CN Volume Detailed Report: Reduced SCS CN Volume - Road B Driveway

Element Details		
ID	102	Notes
Label	Reduced SCS CN Volume - Road B Driveway	

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous Road B Large Single Driveway Reduced CN	70.000	0.018	0.0	0.0	70.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.018	(N/A)	(N/A)	70.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous Road B Large Single Driveway Reduced CN	70.000	7.6	0.018	495.767
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	495.767

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous Road B Large Single Driveway Reduced CN	70.000	0.018	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	70.000	0.018	7.6	495.767

SCS CN Volume Detailed Report: SCS CN Volume - Road M Driveway

Element Details		
ID	117	Notes
Label	SCS CN Volume - Road M Driveway	

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous Road M Large Single Driveway	98.000	0.013	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.013	(N/A)	(N/A)	98.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous Road M Large Single Driveway	98.000	11.3	0.013	531.297
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	531.297

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous Road M Large Single Driveway	98.000	0.013	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	98.000	0.013	11.3	531.297

SCS CN Volume Detailed Report: Reduced SCS CN Volume - Road M Driveway

Element Details			
ID	118	Notes	
Label	Reduced SCS CN Volume - Road M Driveway		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous Road M Large Single Driveway	62.000	0.013	0.0	0.0	62.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.013	(N/A)	(N/A)	62.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous Road M Large Single Driveway	62.000	6.4	0.013	303.680
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	303.680

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous Road M Large Single Driveway	62.000	0.013	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	62.000	0.013	6.4	303.680

SCS CN Volume Detailed Report: SCS CN Volume - UGB 56

Element Details			
ID	109	Notes	
Label	SCS CN Volume - UGB 56		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB56	98.000	0.840	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	98.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB56	98.000	11.3	0.840	34,329.946
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	34,329.946

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB56	98.000	0.840	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	98.000	0.840	11.3	34,329.946

SCS CN Volume Detailed Report: Reduced SCS CN Volume - UGB 56

Element Details		
ID	110	Notes
Label	Reduced SCS CN Volume - UGB 56	

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB56	63.000	0.840	0.0	0.0	63.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.840	(N/A)	(N/A)	63.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB56	63.000	6.6	0.840	20,069.056
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	20,069.056

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB56	63.000	0.840	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	63.000	0.840	6.6	20,069.056

SCS CN Volume Detailed Report: SCS CN Volume - UGB 58

Element Details			
ID	121	Notes	
Label	SCS CN Volume - UGB 58		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB58	98.000	0.460	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.460	(N/A)	(N/A)	98.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB58	98.000	11.3	0.460	18,799.732
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	18,799.732

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB58	98.000	0.460	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	98.000	0.460	11.3	18,799.732

SCS CN Volume Detailed Report: Reduced SCS CN Volume - UGB 58

Element Details		
ID	122	Notes
Label	Reduced SCS CN Volume - UGB 58	

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB58	85.000	0.310	0.0	0.0	85.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.310	(N/A)	(N/A)	85.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB58	85.000	9.6	0.310	10,829.373
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	10,829.373

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB58	85.000	0.310	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	85.000	0.310	9.6	10,829.373

SCS CN Volume Detailed Report: SCS CN Volume - UGB 60

Element Details			
ID	113	Notes	
Label	SCS CN Volume - UGB 60		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB56	98.000	0.780	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.780	(N/A)	(N/A)	98.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB56	98.000	11.3	0.780	31,877.807
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	31,877.807

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB56	98.000	0.780	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	98.000	0.780	11.3	31,877.807

SCS CN Volume Detailed Report: Reduced SCS CN Volume - UGB 60

Element Details			
ID	114	Notes	
Label	Reduced SCS CN Volume - UGB 60		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB56	63.000	0.310	0.0	0.0	63.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.310	(N/A)	(N/A)	63.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB56	63.000	6.6	0.310	7,406.437
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	7,406.437

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB56	63.000	0.310	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	63.000	0.310	6.6	7,406.437

SCS CN Volume Detailed Report: SCS CN Volume - UGB17

Element Details			
ID	105	Notes	
Label	SCS CN Volume - UGB17		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB17	98.000	0.280	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.280	(N/A)	(N/A)	98.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB17	98.000	11.3	0.280	11,443.315
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	11,443.315

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB17	98.000	0.280	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	98.000	0.280	11.3	11,443.315

SCS CN Volume Detailed Report: Reduced SCS CN Volume - UGB17

Element Details			
ID	106	Notes	
Label	Reduced SCS CN Volume - UGB17		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB17	72.000	0.280	0.0	0.0	72.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.280	(N/A)	(N/A)	72.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB17	72.000	7.9	0.280	7,997.441
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	7,997.441

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency 100 years Depth 11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB17	72.000	0.280	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	72.000	0.280	7.9	7,997.441

SCS CN Volume Detailed Report: SCS CN Volume - UGB22

Element Details			
ID	103	Notes	
Label	SCS CN Volume - UGB22		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB22 Parking Area	98.000	0.280	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.280	(N/A)	(N/A)	98.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB22 Parking Area	98.000	11.3	0.280	11,443.315
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	11,443.315

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB22 Parking Area	98.000	0.280	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	98.000	0.280	11.3	11,443.315

SCS CN Volume Detailed Report: Reduced SCS CN Volume - UGB22

Element Details			
ID	104	Notes	
Label	Reduced SCS CN Volume - UGB22		

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Porous to UGB22 Reduced CN	55.000	0.280	0.0	0.0	55.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.280	(N/A)	(N/A)	55.000

COMPUTE RUNOFF VOLUME USING CN
(Cumulative Volume from CN-Areas)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Runoff (in)	Area (acres)	Volume (ft³)
Porous to UGB22 Reduced CN	55.000	5.4	0.280	5,479.879
TOTAL RUNOFF VOLUME --->	(N/A)	(N/A)	(N/A)	5,479.879

COMPUTE RUNOFF VOLUME USING CN
(From Composite Weighted CN)

Frequency	100 years	Depth	11.5 in

Soil/Surface Description	Adjusted CN	Area (acres)	Runoff (in)	Volume (ft³)
Porous to UGB22 Reduced CN	55.000	0.280	(N/A)	(N/A)
COMPOSITE RUNOFF VOLUME --->	55.000	0.280	5.4	5,479.879

WQ Porous Asphalt Average Stone Bed

Subsection: Volume Void Adjustments
Label: 17 Porous&Paving Stone Bed
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr projected

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 40.0 %

Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)
113.12	0.000	0.000
114.12	9,147.000	3,658.800

WQ Porous Asphalt Average Stone Bed

Subsection: Volume Void Adjustments
Label: DA56 Porous Stone Bed
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr projected

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 40.0 %

Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)
117.50	0.000	0.000
118.50	36,234.000	14,493.600

WQ Porous Asphalt Average Stone Bed

Subsection: Volume Void Adjustments
Label: DA58 Stone Bed
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr projected

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 40.0 %

Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)
113.50	0.000	0.000
114.50	20,037.600	8,015.040

WQ Porous Asphalt Average Stone Bed

Subsection: Volume Void Adjustments
Label: DA60 Porous Stone Bed
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr projected

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 40.0 %

Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)
115.50	0.000	0.000
116.50	13,504.000	5,401.600

WQ Porous Asphalt Average Stone Bed

Subsection: Volume Void Adjustments
Label: Stone bed large Alley 4
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr projected

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 40.0 %

Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)
104.00	0.000	0.000
105.00	2,526.480	1,010.592

WQ Porous Asphalt Average Stone Bed

Subsection: Volume Void Adjustments
Label: Stone Bed driveway Road M
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr projected

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 40.0 %

Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)
96.50	0.000	0.000
97.50	566.280	226.512

WQ Porous Asphalt Average Stone Bed

Subsection: Volume Void Adjustments
Label: Stone Bed large Alley 10
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr projected

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 40.0 %

Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)
112.90	0.000	0.000
113.90	3,005.640	1,202.256

Subsection: Elevation-Area Volume Curve
Label: 22 Porous Paving Stone Bed
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr projected

Elevation (ft)	Planimeter (ft^2)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft^3)	Volume (Total) (ft^3)
112.50	0.0	0.210	0.000	0.000	0.000
113.50	0.0	0.210	0.630	9,148.000	3,659.000

WQ Porous Asphalt Average Stone Bed

Subsection: Volume Void Adjustments
Label: Stone bed single large Rd B
Scenario: 100YR Projected

Return Event: 100 years
Storm Event: 100yr projected

Volume Complete Filled With Material
(Adjust Volumes for Voids)

Void Space = 40.0 %

Elevation (Headwater) (ft)	Volume (Total) (ft³)	Volume (Adjusted) (ft³)
109.00	0.000	0.000
110.00	784.080	313.632

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER QUALITY
Bureau of Stormwater Permitting
401 East State Street
P.O. Box 420 Mail Code 401-02B
Trenton, NJ 08625-0420
Tel. (609) 633-7021 • Fax (609) 777-0432
www.nj.gov/dep/dwq/bnpc_home.htm

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

SHAWN M. LATOURETTE
Acting Commissioner

February 12, 2021

Derek M. Berg
Director – Stormwater Regulatory Management - East
Contech Engineered Solutions LLC
71 US Route 1, Suite F
Scarborough, ME 04074

Re: MTD Lab Certification
Filterra® HC Bioretention System
Off-line Installation Approved

TSS Removal Rate 80%

Dear Mr. Berg:

The Stormwater Management rules under N.J.A.C. 7:8-5.5(b) and 5.7(c) allow the use of manufactured treatment devices (MTDs) for compliance with the design and performance standards at N.J.A.C. 7:8-5 if the pollutant removal rates have been verified by the New Jersey Corporation for Advanced Technology (NJCAT) and have been certified by the New Jersey Department of Environmental Protection (NJDEP). Contech Engineered Solutions LLC has requested a Laboratory Certification for the Filterra® HC Bioretention System (Filterra® HC.)

The project falls under the "Procedure for Obtaining Verification of a Stormwater Manufactured Treatment Device from New Jersey Corporation for Advance Technology" dated January 25, 2013. The applicable protocol is the "New Jersey Department of Environmental Protection Laboratory Protocol to Assess Total Suspended Solids Removal by a Filtration Manufactured Treatment Device" dated January 25, 2013.

NJCAT verification documents submitted to the NJDEP indicate that the requirements of the aforementioned protocol have been met or exceeded. The NJCAT letter also included a recommended certification TSS removal rate and the required maintenance plan. The NJCAT Verification Report with the Verification Appendix (dated January 2021) for this device is published online at http://www.njcat.org/uploads/newDocs/NJCATFilterraTechnologyVerificationReportFinal._.pdf.

The NJDEP certifies the use of the Filterra® HC stormwater treatment unit by Contech Engineered Solutions LLC at a TSS removal rate of 80% when designed, operated, and maintained in accordance with the information provided in the Verification Appendix and the following conditions:

1. The maximum treatment flow rate (MTFR) for the manufactured treatment device (MTD) is calculated using the New Jersey Water Quality Design Storm (1.25 inches in 2 hrs) in N.J.A.C. 7:8-5.5. The MTFR is calculated based on a verified loading rate of 3.12 gpm/ft^2 of effective filtration treatment area.

2. The Filterra® HC stormwater treatment unit shall be installed using the same configuration reviewed by NJCAT, and sized in accordance with the criteria specified in item 7 below.

3. This device cannot be used in series with another MTD or a media filter (such as a sand filter) to achieve an enhanced removal rate for total suspended solids (TSS) removal under N.J.A.C. 7:8-5.5.

4. Additional design criteria for MTDs can be found in the New Jersey Stormwater Best Management Practices (NJ Stormwater BMP) Manual, which can be found online at www.njstormwater.org.

5. The maintenance plan for a site using this device shall incorporate, at a minimum, the maintenance requirements for the Filterra® HC. A copy of the maintenance plan is attached to this certification. However, it is recommended to review the maintenance website at https://www.conteches.com/Portals/0/Documents/Maintenance%20Guides/Filterra%20HC%20OM%20Packet.pdf for any changes to the maintenance requirements.

6. For an MTD to be considered "green infrastructure" (GI) in accordance with the March 2, 2020 amendments to the Stormwater Management rules at N.J.A.C. 7:8, the MTD must meet the GI definition noted at amended N.J.A.C. 7:8-1.2. Specifically, the MTD shall (1) treat stormwater runoff through infiltration into subsoil; and/or (2) treat stormwater runoff through filtration by vegetation or soil; or (3) store stormwater runoff for reuse.

   The Filterra® HC filters stormwater runoff through an engineered biofiltration soil media and, thus, meets the definition of GI. Filterra® HC can be configured with or without a precast vault. Installations that will not include a precast vault will additionally need to comply the NJDEP Stormwater BMP Manual conditions regarding separation from the seasonal high water table and, if infiltration is proposed as an outlet, minimum vertical saturated hydraulic conductivity of the subsoil. Installations without a precast vault that do not rely on infiltration are required to maintain at least a one-foot separation from the seasonal high water table measured from the lowest point of the system. Installations without a precast vault that utilize infiltration are required to have the most hydraulically restrictive soil layer below the MTD meet the minimum tested vertical saturated hydraulic conductivity of one inch per hour and have at least two feet of separation from the seasonal high water table measured from the lowest point of the system.

7. Sizing Requirement:

The example below demonstrates the sizing procedure for the Filterra® HC:

Example: A 0.25-acre impervious site is to be treated to 80% TSS removal using the Filterra® HC. The impervious site runoff (Q) based on the New Jersey Water Quality Design Storm was determined to be 0.79 cfs.

The selection of the appropriate model of Filterra® HC is based upon both the maximum inflow drainage area and the MTFR. It is necessary to calculate the required model using both methods and to use the largest model determined by the two methods.

Inflow Drainage Area Evaluation:

The drainage area to the Filterra® HC in this example is 0.25 acres. Included in Table 1 below, all of the Filterra® HC models are designed with a maximum allowable drainage area greater than 0.25 acres. Specifically, the Filterra® HC with a 4'x4' media bay and a maximum allowable drainage area of 0.40 acres would be the smallest model able to treat runoff without exceeding the maximum allowable drainage area.

Maximum Treatment Flow Rate (MTFR) Evaluation:

The site runoff (Q) was based on the following:
time of concentration = 10 minutes
i = 3.2 in/hr (page 5-8, Fig. 5-3 of the NJ Stormwater BMP Manual)
c = 0.99 (runoff coefficient for impervious)
Q = ciA = 0.99 x 3.2 x 0.25 = 0.79 cfs

Given the site runoff is 0.79 cfs and based on the MTFR's listed in Table 1 below, the Filterra® HC with a 16'x8' media bay and an MTFR of 0.889 cfs would be the smallest model that could be used to treat the impervious area without exceeding the MTFR. If using more than one unit for treating runoff, the units should be configured such that the flowrate to each unit does not exceed the design MTFR for each unit and ensuring the entire 0.25 acre area is treated.

The MTFR evaluation results will be used since that method results in the highest minimum configuration determined by the two methods.

The sizing table corresponding to the available system models is noted below:

Table 1. Filterra® HC MTFRs and Maximum Allowable Drainage Areas

	Available Filterra® Media Bay Sizes (feet)	Effective Filtration Treatment Area (ft^2)	Treatment Flow Rate (cfs)	Maximum Allowable Drainage Area (ac)
Standard Configuration Filterra and Filterra Biosape Vaults	4x4	16	0.111	0.40
	4x6 or 6x4	24	0.167	0.60
	4.5x7.83 or 7.83x4.5 (Nominal 4x8/8x4)	35.24	0.245	0.89
	6x6	36	0.250	0.91
	6x8 or 8x6	48	0.333	1.21
	6x10 or 10x6	60	0.417	1.51
	6x12 or 12x6	72	0.500	1.81
	7x13 or 13x7	91	0.632	2.29
	14x8	112	0.778	2.82
	16x8	128	0.889	3.22
	18x8	144	1.000	3.62
	20x8	160	1.111	4.03
	22x8	176	1.222	4.43
Peak Diversion Filterra Vaults	4x4	16	0.111	0.40
	4.5x5.83 (Nominal 4x6)	26.24	0.182	0.66
	6x4	24	0.167	0.60
	6x6	36	0.250	0.91
	6x8	48	0.333	1.21
	6x10 or 10x6	60	0.417	1.51
	7x10	70	0.486	1.76
	8x10.5	84	0.583	2.11
	8x12.5	100	0.694	2.52
	Custom and/or Filterra Bioscape	Media Area in ft^2	0.00694 * (Media Area in ft^2)	0.0252 * (Media Area in ft^2)

Be advised a detailed maintenance plan is mandatory for any project with a Stormwater BMP subject to the Stormwater Management rules, N.J.A.C. 7:8. The plan must include all of the items identified in the Stormwater Management rules, N.J.A.C. 7:8-5.8. Such items include, but are not limited to, the list of inspection and maintenance equipment and tools, specific corrective and preventative maintenance tasks, indication of problems in the system, and training of maintenance personnel. Additional information can be found in Chapter 8: Maintenance and Retrofit of Stormwater Management Measures.

If you have any questions regarding the above information, please contact me at (609) 633-7021.

Sincerely,

Gabriel Mahon, Chief
Bureau of Stormwater Permitting

Attachment: Maintenance Plan
cc: Chron File
Richard Magee, NJCAT
Vince Mazzei, NJDEP – Water & Land Management
Nancy Kempel, NJDEP– BSTP
Keith Stampfel, NJDEP – DLRP
Dennis Contois, NJDEP – DLRP

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
PHILIP D. MURPHY
Governor
SHEILA Y. OLIVER
Lt. Governor
DIVISION OF WATERSHED PROTECTION AND RESTORATION
BUREAU OF NJPDES STORMWATER PERMITTING & WATER QUALITY MANAGEMENT
P.O. Box 420 Mail Code 501-02A
Trenton, New Jersey 08625-0420
609-633-7021 / Fax: 609-777-0432
www.njstormwater.org
SHAWN M. LATOURETTE
Commissioner

June 1, 2022

Zachariha J. Kent
Vice President of Product Management
Bio Clean Environmental Services, Inc., a Forterra Company
398 Via El Centro
Oceanside, CA 92058

Re: MTD Lab Certification
Bio Clean Modular Wetlands Linear Stormwater Treatment Device
Online Installation

TSS Removal Rate 80%

Dear Mr. Kent:

The Stormwater Management rules under N.J.A.C. 7:8-5.2(f) and 5.2(j) allow the use of manufactured treatment devices (MTDs) for compliance with the design and performance standards at N.J.A.C. 7:8-5 if the pollutant removal rates have been verified by the New Jersey Corporation for Advanced Technology (NJCAT) and have been certified by the New Jersey Department of Environmental Protection (NJDEP). Bio Clean Environmental Services, Inc., a Forterra company, has requested a Laboratory Certification for the Bio Clean Modular Wetlands Linear Stormwater Treatment Device (Bio Clean MW-L).

The project falls under the "Procedure for Obtaining Verification of a Stormwater Manufactured Treatment Device from New Jersey Corporation for Advance Technology" dated January 25, 2013. The applicable protocol is the "New Jersey Department of Environmental Protection Laboratory Protocol to Assess Total Suspended Solids Removal by a Filtration Manufactured Treatment Device" dated January 25, 2013.

NJCAT verification documents submitted to the NJDEP indicate that the requirements of the aforementioned protocol have been met or exceeded. The NJCAT letter also included a recommended certification TSS removal rate and the required maintenance plan. The NJCAT Verification Report with the Verification Appendix (dated May 2022) for this device is published online at http://www.njcat.org/verification-process/technology-verification-database.html.

The State of New Jersey is an equal-opportunity employer. Printed on recycled and recyclable paper.

The NJDEP certifies the use of the Bio Clean MW-L by Bio Clean Environmental Services, Inc. at a TSS removal rate of 80% when designed, operated, and maintained in accordance with the information provided in the Verification Appendix and the following conditions:

1. The maximum treatment flow rate (MTFR) for the manufactured treatment device (MTD) is calculated using the New Jersey Water Quality Design Storm (1.25 inches in 2 hrs) in N.J.A.C. 7:8-5.5. The MTFR is calculated based on a verified loading rate of 2.91 gpm/ft^2 of effective wetland media surface area and 4.88 gpm/ft of effective pre-filter media surface area.

2. The Bio Clean MW-L shall be installed using the same configuration reviewed by NJCAT, and sized in accordance with the criteria specified in item 8 below.

3. This device cannot be used in series with another MTD or a media filter (such as a sand filter) to achieve an enhanced removal rate for total suspended solids (TSS) removal under N.J.A.C. 7:8-5.5.

4. Additional design criteria for MTDs can be found in Chapter 9.5 of the New Jersey Stormwater Best Management Practices (NJ Stormwater BMP) Manual, which can be found online at www.njstormwater.org.

5. The maintenance plan for a site using this device shall incorporate, at a minimum, the maintenance requirements for the Bio Clean MW-L. A copy of the maintenance plan is attached to this certification. However, it is recommended to review the maintenance website at https://biocleanenvironmental.com/wp-content/uploads/2022/04/Modular-Wetlands-Operation-Maintenance-Manual_4-20-22.pdf for any changes to the maintenance requirements.

6. For an MTD to be considered "green infrastructure" in accordance with the March 2, 2020 amendments to the Stormwater Management rules at N.J.A.C. 7:8, the MTD must meet the GI definition noted at amended N.J.A.C. 7:8-1.2. Specifically, the MTD shall (1) infiltrate into the subsoil; and/or (2) treat stormwater runoff through filtration by vegetation or soil. Any configuration that uses a bio-filtration media and can be configured "above ground" and incorporate a tree box, planter box, or shrubs, etc., would meet the GI definition. Any MTD with bio-filtration media that would be placed "below ground" as a vault without any vegetation can be considered GI (for NJ purposes) only if the device infiltrates the entire Water Quality Design Storm into the subsoil. Further, the below ground device (vault) would need to meet the NJDEP Stormwater BMP Manual conditions of having the soil below the MTD meet the minimum tested infiltration rate of one inch per hour, have at least two feet of separation from the seasonal high water table, and infiltrate into the subsoil.

7. Sizing Requirement:

   The example below demonstrates the sizing procedure for the Bio Clean MW-L:

   Example: A 0.25-acre impervious site is to be treated to 80% TSS removal using a Bio Clean MW-L. The impervious site runoff (Q) based on the New Jersey Water Quality Design Storm was determined to be 0.79 cfs or 354.58 gpm.

   The selection of the appropriate model of a Bio Clean MW-L is based upon both the maximum inflow drainage area and the MTFR. It is necessary to calculate the required model using both methods and to use the largest model determined by the two methods.

Inflow Drainage Area Evaluation:

The drainage area to the Bio Clean MW-L in this example is 0.25 acres. Based upon the information in Table 1 below, all of the Bio Clean MW-L models would be able to treat runoff without exceeding the maximum allowable drainage area.

Maximum Treatment Flow Rate (MTFR) Evaluation:

The site runoff (Q) was based on the following:

time of concentration = 10 minutes
i = 3.2 in/hr (page 21, Fig. 5-10 of Chapter 5 of the NJ Stormwater BMP Manual)
c = 0.99 (runoff coefficient for impervious)
Q = ciA = 0.99 x 3.2 x 0.25 = 0.79 cfs (354.58 gpm)
(Note: 1 cfs = 448.83 gpm)

Given the site runoff is 0.79 cfs and based on Table 1 below, the Bio Clean MW-L-8-12 model would be the smallest model able to treat the impervious area without exceeding the MTFR of the individual model.

The MTFR evaluation results will be used since that method results in the highest minimum configuration determined by the two methods.

The sizing table corresponding to the available system models is noted below. Additional specifications regarding each model can be found in the NJCAT Verification Report in the Verification Appendix under Table A-1.

Table 1. Bio Clean Modular Wetlands Linear Stormwater Treatment Device Model MTFRs and Maximum Allowable Drainage Area.

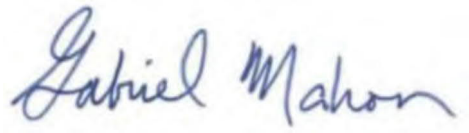
Model #	Maximum Treatment Flow Rate (MTFR) (cfs)	Maximum Allowable Drainage Area (acres)	Number of Pre-Filter Cartridges
MW-L-4-4	0.13	0.47	0.5
MW-L-4-6.5	0.17	0.65	1
MW-L-4-8	0.28	1.04	1
MW-L-6-8	0.35	1.32	1.5
MW-L-8-8	0.56	2.07	2
MW-L-8-12	0.83	3.11	3
MW-L-8-16	1.11	4.15	4
MW-L-8-20	1.39	5.19	5

Be advised a detailed maintenance plan is mandatory for any project with a Stormwater BMP subject to the Stormwater Management Rules, N.J.A.C. 7:8. The plan must include all of the items identified in the Stormwater Management Rules, N.J.A.C. 7:8-5.8. Such items include, but are not limited to, the list of

inspection and maintenance equipment and tools, specific corrective and preventative maintenance tasks, indication of problems in the system, and training of maintenance personnel. Additional information can be found in Chapter 8: Maintenance and Retrofit of Stormwater Management Measures.

If you have any questions regarding the above information, please contact Lisa Schaefer of my office at lisa.schaefer@dep.nj.gov.

Sincerely,



Gabriel Mahon, Chief
Bureau of NJPDES Stormwater Permitting & Water Quality Management
Division of Watershed Protection and Restoration
New Jersey Department of Environmental Protection

Attachment: Maintenance Plan

cc: Richard Magee, NJCAT

Appendix E

SESI CONSULTING ENGINEERS
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

April 4, 2024 ***via email: ahamad@visionrep.com***

Principals:
Anthony Castillo, PE
Fuad Dahan, PhD, PE, LSRP
Franz W. Laki, PE
John M. Nederfield, PE
Justin M. Protasiewicz, PE
Michael St. Pierre, PE
Jose M. Rodriguez, PE

Amer Hamad
WRV Nurseries LLC
100 Passaic Avenue
Fairfield, NJ 07004

RE: Proposed Mixed-Use Development
Infiltration Testing Data Letter
Seminary Drive
Plainsboro, New Jersey
SESI Project No. 12506

Dear Mr. Hamad:

In accordance with our Addendum #4 dated February 26, 2024, SESI has completed our investigation and in-situ testing program for the proposed mixed-use development which is to be located along Seminary Drive in Plainsboro, New Jersey. Our investigation consisted of the excavation of thirty (30) soil profile pits and the performance of thirty (30) in-situ single ring infiltration tests, at the approximate locations indicated on the attached *Figure 1 - Exploration Location Plan*. At five (5) of the test locations SESI performed an additional near surface test to aid in the assessment of the hydraulic soil group and these test results are labeled with an "A" after them. Soil profile pits were advanced up to 12 feet below existing grades. Infiltration testing was performed in accordance with the NJ Best Management Practices (NJBMP) manual, dated April 2022. While performing the soil profile pits, SESI also evaluated the subsurface conditions for indications of seasonal high groundwater (SHGW), water seepage, and static groundwater. It should be noted that mottling was observed in several test pits at depths indicated on the attached logs and in *Table 1 – Infiltration Testing Summary Table*; however, it is our opinion that the observed mottling is due to trapped/perched water and is not indicative of seasonal high groundwater. A summary of our test results and observations are presented in Table 1, attached, and the soil profile pit logs are also attached to the end of this letter. Based on the test results, a majority of the tests resulted in hydraulic conductivity values less than 1.0 inch/hour, with only seven (7) test results exceeding a hydraulic conductivity of greater than 1.0 inch/hour. Hydraulic conductivity results presented are field rates and a standard factor of safety should be applied for design purposes.

Sincerely,

SESI CONSULTING ENGINEERS

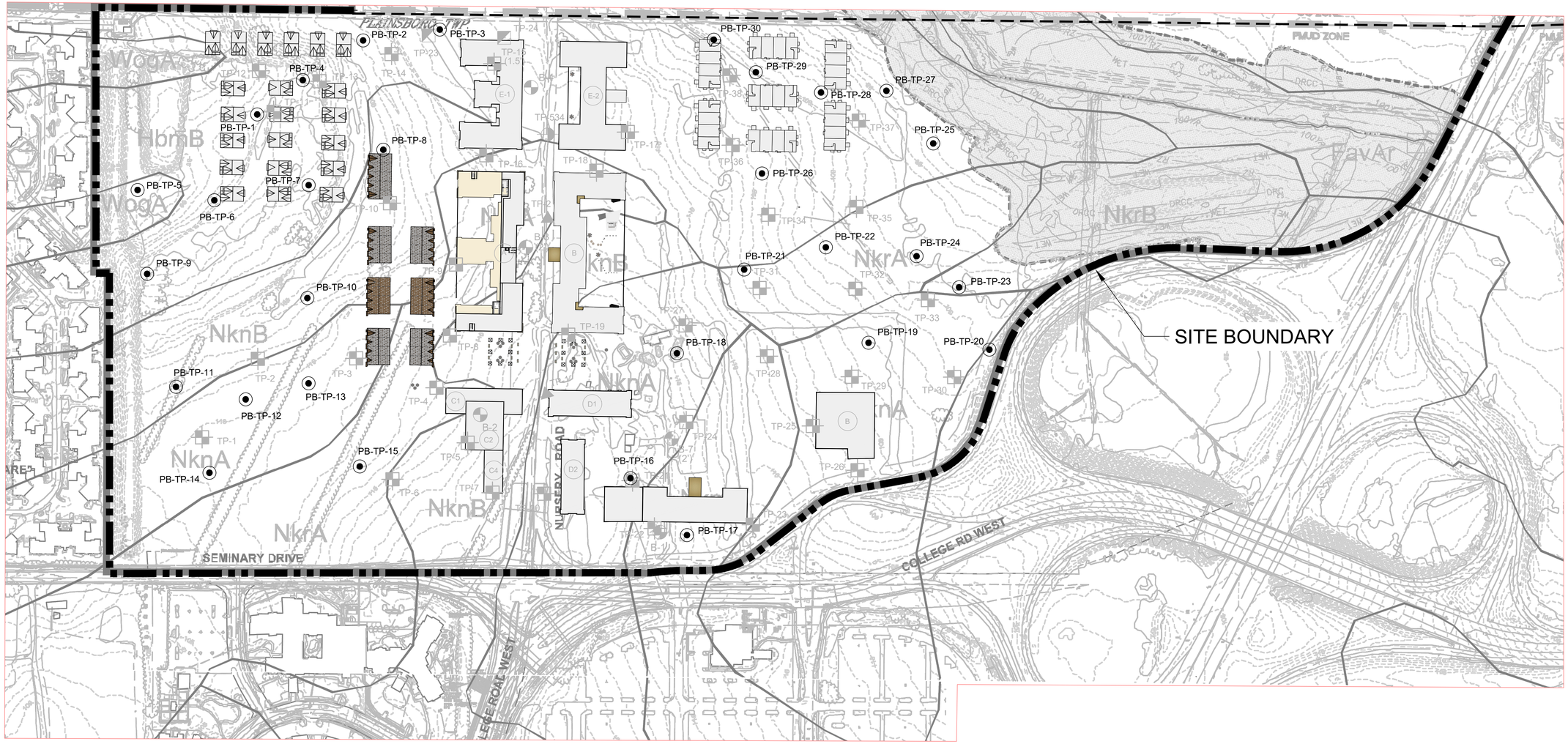
Michael St. Pierre, P.E.
President

Michael A. Felicetta
Assistant Project Engineer II

Attachments:

1. **Figure 1 – Exploration Location Plan**
2. **Table 1 – Infiltration Testing Summary Table**
3. **Soil Profile Pit Logs**

N:\PROJECTS\12506 - Plainsboro, NJ (Vision-Woodmont-Russo)\Letters & Memos\SB Data Center & Roadway TPs & Inf. Test Ltr\12506.Data Ctr & Roadway Testing Summary Letter.docx



NOTE:
THIS PLAN IS FOR LOCATING TEST PITS AND BORINGS ONLY.
OTHER SITE WORK SHOWN HERE IS NOT INTENDED FOR CONSTRUCTION.

REFERENCE:
1. AERIAL PHOTOGRAPHY WERE TAKEN FROM2022 MICROSOFT CORP. 2022 MAXAR, CNES (2022) DISTRIBUTION AIRBUS DS AERIAL IMAGING.
2. PREVIOUSLY INSTALLED TEST PITS PROVIDED BY "PRINCETON NURSERIES "TOPO AND SOILS PLAN" PREPARED BY VAN NOTE-HARVEY ASSOCIATES, INC. PRINCETON N.J. DATED JANUARY 10, 2018

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LEGEND:

- PB-TP-1 - APPROXIMATE LOCATION AND NUMBER OF TEST PIT (SOUTHERN AREA)
- SB-TP-1 - APPROXIMATE LOCATION AND NUMBER OF TEST PIT
- SB-TP-101 - APPROXIMATE LOCATION AND NUMBER OF TEST PIT
- TP-1 - APPROXIMATE LOCATION AND NUMBER OF TEST PIT
- B-3 - APPROXIMATE LOCATION AND NUMBER OF BORING
- (2') - APPROXIMATE DEPTH TO BOTTOM OF FILL
- TP-523 - SOR TESTING LABS, INC. TEST PITS, APRIL 2004
- (7') - APPROXIMATE DEPTH TO BOTTOM OF FILL, APRIL 2004
- TP-1 - MELLICK TULLEY, ASSOCIATES TEST PITS, NOVEMBER 2007
- TP-4 - MELLICK TULLEY, ASSOCIATES TEST PITS, AUGUST 2008
- (4') - APPROXIMATE DEPTH TO BOTTOM OF FILL, AUGUST 2008
- TP-28 - TEST PITS, BY OTHERS
- (E) - BUILDING NUMBERS

Scale: 1"= 150'
0 75 150 300 450 600

rev	date	description	by

dwg by: AG
chk by: MF
scale: AS NOTED
date: 08/16/2022

SESI CONSULTING ENGINEERS
Cert of Auth #24GA27934700
GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL
959 route 46e, 3rd floor, parsippany, nj 07054 ph: 973.808.9050

PROPOSED MIXED-USE DEVELOPMENT
ROUTE 1
PLAINSBORO, NEW JERSEY

title:
EXPLORATION LOCATION PLAN
PLAINSBORO

job no. 12506
drawing no.
FIG-1

N:\CAD\12506\CAD\12506 DWG EXPLORATION_LOCATION_PLAN.DWG 04/01/24 12:55:58PM acm xref: LAYOUT-TP1-1 EXPLORATION (PLAINSBORO)

Project Number: 12506
Location: South Brunswick, NJ
Date: March 25, 2024

SESI
CONSULTING ENGINEERS

Table 1 - Infiltration Testing Summary Table - Plainsboro, NJ

SESI Test Pit No.:	Approx. Surface Elevation	Approx. Depth of Excavation (feet)	Approx. Depth to Groundwater (feet)	Approx. Groundwater Elevation	Infiltration Test Type	Approx. Infiltration Test Depth (feet)	Approx. Elevation of Infiltration Test	Hydraulic Conductivity (in/hr)	Notes
PB-TP-1	95.5	10	NE	NE	Single Ring	4.0	91.5	12.66	
PB-TP-2	106.2	12	NE	NE	Single Ring	7.0	99.2	0.43	
PB-TP-2A	106.2	0	NE	NE	Single Ring	0.0	106.2	0.02	
PB-TP-3	113	12	NE	NE	Single Ring	4.0	109.0	0.79	Mottling noted at +/-6' (EL 107)
PB-TP-4	95.5	12	NE	NE	Single Ring	4.0	91.5	0.64	Mottling noted at +/-11' (EL 84.5)
PB-TP-5	87.3	10	8	79.3	Single Ring	6.0	81.3	1.70	
PB-TP-6	94	12	NE	NE	Single Ring	1.0	93.0	0.04	Mottling noted at +/-3' (EL 91)
PB-TP-7	98.3	10	NE	NE	Single Ring	6.0	92.3	0.59	
PB-TP-8	105	10	NE	NE	Single Ring	2.0	103.0	0.02	Mottling noted at +/-4' (EL 101)
PB-TP-9	97	10	NE	NE	Single Ring	6.0	91.0	10.35	
PB-TP-10	107	12	NE	NE	Single Ring	6.0	101.0	0.63	
PB-TP-10A	107	0	NE	NE	Single Ring	0.0	107.0	0.30	
PB-TP-11	108	6	NE	NE	Single Ring	6.0	102.0	1.70	Bucket Refusal at +/-6' (EL 102)
PB-TP-12	109.6	12	NE	NE	Single Ring	7.0	102.6	3.43	
PB-TP-13	110.5	12	NE	NE	Single Ring	7.0	103.5	0.46	
PB-TP-14	109.8	12	NE	NE	Single Ring	7.0	102.8	0.26	
PB-TP-15	113	10	NE	NE	Single Ring	5.0	108.0	0.26	
PB-TP-16	120	12	NE	NE	Single Ring	4.0	116.0	0.09	Mottling noted at +/-6' (EL 114)
PB-TP-17	115	12	NE	NE	Single Ring	5.0	110.0	0.17	
PB-TP-18	112	12	NE	NE	Single Ring	4.0	108.0	0.13	Mottling noted at +/-6' (EL 106)
PB-TP-19	103.7	12	10	93.7	Single Ring	7.0	96.7	0.02	
PB-TP-20	99.9	10	8	91.9	Single Ring	6.0	93.9	0.02	Bucket Refusal at +/- 10' (EL 89.9)
PB-TP-20A	99.9	0	NE	NE	Single Ring	0.0	99.9	0.04	
PB-TP-21	106	11	NE	NE	Single Ring	6.0	100.0	0.17	
PB-TP-22	101	12	9	92	Single Ring	6.0	95.0	0.05	
PB-TP-23	99.5	9	6	93.5	Single Ring	4.0	95.5	1.08	Bucket Refusal at +/- 9' (EL 90.5)
PB-TP-24	94.7	11	6	88.7	Single Ring	3.0	91.7	0.36	Mottling noted at +/-5' (EL 89.7)
PB-TP-25	95.2	11	6	89.2	Single Ring	3.0	92.2	0.63	Mottling noted at +/-5' (EL 90.2)
PB-TP-26	105	11	NE	NE	Single Ring	6.0	99.0	0.87	
PB-TP-26A	105	0	NE	NE	Single Ring	0.0	105.0	0.09	
PB-TP-27	94	10	9	85	Single Ring	1.0	93.0	6.36	Mottling noted at +/-5' (EL 90.2), Bucket Refusal at +/-10' (EL 84)
PB-TP-28	100	11	NE	NE	Single Ring	1.0	99.0	0.17	Mottling noted at +/-3' (EL 97)
PB-TP-29	99.5	10	NE	NE	Single Ring	4.0	95.5	0.52	Mottling noted at +/-7' (EL 92.5)
PB-TP-29A	99.5	0	NE	NE	Single Ring	0.0	99.5	0.00	
PB-TP-30	103	10	NE	NE	Single Ring	2.0	101.0	0.02	Mottling noted at +/-4' (EL 99)

Note: NE = Not Encountered

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TEST PIT NUMBER: PB-TP-01

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±95.5-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 12.0-ft
FINAL DEPTH 10.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.362792 **LONGITUDE** -74.615720

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		12-in Topsoil: Light brown coarse to fine SAND, some Clayey Silt, little medium to fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	91	Tan/brown/gray coarse to fine SAND, some coarse to fine Gravel, little Clayey Silt, with Cobbles (Decomposed Rock) (Sand/Loamy Sand)	5	Dry to Moist	Dense	Infiltration Test performed at 4-ft
	86	Gray/tan/brown coarse to fine GRAVEL, some coarse to fine Sand, trace Clayey Silt, with Cobbles (Decomposed Rock) (Sand/Loamy Sand)	10	Dry to Moist	Dense to Very Dense	
		TEST PIT COMPLETED AT 10± FEET				
	81		15			
	76		20			

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TEST PIT NUMBER: PB-TP-02

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±106.2-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 15.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.362717 **LONGITUDE** -74.614390

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Tilled soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	Infiltration test pit performed at 0-ft
		Tan/brown medium to fine SAND, some Clayey Silt (Sand/Loamy Sand)		Dry to Moist	Loose	
	102	Tan/brown coarse to fine SAND, some medium to fine Gravel, little Clayey Silt, with Cobbles (Sand)	5	Dry to Moist	Loose to Medium Dense	Infiltration Test performed at 7-ft
	97	Gray/dark brown Clayey SILT, little medium to fine Sand, little medium to fine Gravel	10	Dry to Moist	Medium Stiff	
		TEST PIT COMPLETED AT 12± FEET				
	92		15			
	87		20			

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TEST PIT NUMBER: PB-TP-03

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±113.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 15.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.362772 **LONGITUDE** -74.613558

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		6-in Topsoil:		Dry to Moist	Loose	
		Light brown coarse to fine SAND, some Clayey Silt, little medium to fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown coarse to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)				
		Red-brown/orange-brown coarse to fine SAND, and coarse to fine Gravel, little Clayey Silt (Sand)				Infiltration Test performed at 4-ft
	108		5			Mottling observed at 6-ft
				Dry to Moist	Loose to Dense	
	103		10			
		TEST PIT COMPLETED AT 12± FEET				
	98		15			
	93		20			

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TEST PIT NUMBER: PB-TP-04

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation
EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.362537 **LONGITUDE** -74.615092

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±95.5-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 13.0-ft
FINAL DEPTH 12.0-ft

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		6-in Topsoil: Tan/brown coarse to fine SAND, some Silty Clay, trace medium to fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/orange-brown coarse to fine SAND, some Clayey Silt, little medium to fine Gravel (Loamy Sand/Sandy Loam)		Dry to Moist	Loose to Medium Dense	
	91	Gray/Tan-brown medium to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)	5	Dry to Moist	Medium Dense	Infiltration Test performed at 4-ft
	86	Gray/dark brown coarse to fine GRAVEL, some coarse to fine Sand, little Clayey Silt (Decomposed Rock) (Sand)	10	Dry to Moist	Dense	Mottling observed at 11-ft
		TEST PIT COMPLETED AT 12± FEET				
	81		15			
	76		20			

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TEST PIT NUMBER: PB-TP-05

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation
EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.362082 **LONGITUDE** -74.617060

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±87.3-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 12.0-ft
FINAL DEPTH 10.0-ft

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION 8.00 ft
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		6-in Topsoil:		Dry to Moist	Loose	
		Tan/brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Loamy Sand/Sandy Loam)				
		Tan/brown coarse to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	83		5			
		Gray/tan brown coarse to fine GRAVEL, little coarse to fine Sand, little Clayey Silt (Decomposed Rock) (Sand/Loamy Sand)		Moist	Dense	Infiltration Test performed at 6-ft
				Wet		Slight Seepage observed at 8-ft
	78				Very Dense	
		TEST PIT COMPLETED AT 10± FEET	10			
	73		15			
	68		20			

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TEST PIT NUMBER: PB-TP-06

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±94.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 14.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.361893 **LONGITUDE** -74.617967

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		6-in Topsoil: Brown/tan brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown coarse to fine SAND, some Clayey Silt, trace medium to fine Gravel (Loamy Sand/Sandy Loam)				Infiltration Test performed at 1-ft Mottling observed at 3-ft
	89		5	Dry to Moist	Loose	
		Gray/tan/brown coarse to fine GRAVEL, some coarse to fine Sand, little Clayey Silt, with decomposed rock (Sand)				
	84		10	Moist	Dense to Very Dense	
		TEST PIT COMPLETED AT 12± FEET				
	79		15			
	74		20			

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TEST PIT NUMBER: PB-TP-07

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±98.3-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 14.0-ft
FINAL DEPTH 10.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.361817 **LONGITUDE** -74.615287

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Tilled soil) Loamy Sand/Sandy Loam		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	94	Gray/tan/brown coarse to fine GRAVEL, and coarse to fine Sand, little Clayey Silt (Decomposed Rock) (Sand)	5	Dry to Moist	Dense to Very Dense	Infiltration Test performed at 6-ft
	89	TEST PIT COMPLETED AT 10± FEET	10			
	84		15			
	79		20			

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TEST PIT NUMBER: PB-TP-08

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±105.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 10.0-ft
FINAL DEPTH 10.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.361986 **LONGITUDE** -74.614459

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Tilled Soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	Infiltration Test performed at 2-ft Mottling observed at 4-ft
	100	Orange-brown coarse to fine SAND, some coarse to fine Gravel, little Clayey Silt (Sand/Loamy Sand)	5	Dry to Moist	Medium Dense	
		Gray-brown/orange-brown Clayey SILT, little medium to fine Gravel, little coarse to fine Sand (Silt Loam)		Dry to Moist	Medium Stiff	
	95	TEST PIT COMPLETED AT 10± FEET	10			
	90		15			
	85		20			

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TEST PIT NUMBER: PB-TP-09

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±97.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 12.0-ft
FINAL DEPTH 10.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.362147 **LONGITUDE** -74.617788

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		6-in Topsoil: Tan/brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	92	Gray/tan/brown coarse to fine GRAVEL, some coarse to fine Sand, little Clayey Silt, with Cobbles (Decomposed Rock) (Sand)	5	Dry to Moist	Very Dense	Infiltration Test performed at 6-ft
	87	TEST PIT COMPLETED AT 10± FEET	10			
	82		15			
	77		20			

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TEST PIT NUMBER: PB-TP-10

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±107.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 15.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.360762 **LONGITUDE** -74.615878

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		12-in Topsoil: Tan/brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown coarse to fine SAND, some coarse to fine Gravel, little Clayey Silt (Sand/Loamy Sand)		Dry to Moist	Loose to Dense	Infiltration Test performed at 3-ft
	102		5			Infiltration Test performed at 6-ft
		Gray/dark brown coarse to fine Gravel, some coarse to fine Sand, little Clayey Silt, with Cobbles (Decomposed Rock) (Sand)		Dry to Moist	Very Dense	
	97		10			
		TEST PIT COMPLETED AT 12± FEET				
	92		15			
	87		20			

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TEST PIT NUMBER: PB-TP-11

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±108.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 10.0-ft
FINAL DEPTH 6.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.360545 **LONGITUDE** -74.617036

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Brown medium to fine SAND, some Silty Clay, trace fine Gravel, with grass and roots (Tilled soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt, trace fine Gravel (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	103	Dark brown/red-brown Clayey Silt, little coarse to fine Sand, little fine Gravel (Silt Loam)	5	Dry to Moist	Medium Stiff	Infiltration Test performed at 6-ft Bucket refusal on bedrock
	98	TEST PIT COMPLETED AT 6± FEET DUE TO BUCKET REFUSAL	10			
	93		15			
	88		20			

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TEST PIT NUMBER: PB-TP-12

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±109.6-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 15.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.360312 **LONGITUDE** -74.616463

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with grass and roots (Tilled soil) (Loamy Sandy/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt (Loamy Sandy/Sandy Loam)		Dry to Moist	Loose	
	105	Dark brown/red-brown, coarse to fine GRAVEL, and coarse to fine Sand, little Clayey Silt, with Cobbles (Decomposed Rock) (Sand/Loamy Sand)	5	Dry to Moist	Dense to Very Dense	Infiltration Test performed at 7-ft
	100		10			
		TEST PIT COMPLETED AT 12± FEET				
	95		15			
	90		20			

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TEST PIT NUMBER: PB-TP-13

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±110.5-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 12.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.358588 **LONGITUDE** -74.617167

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Tilled soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt, trace medium to fine Gravel (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	106	Dark brown/red-brown coarse to fine Gravel, some coarse to fine Sand, little Clayey Silt, with Cobbles (Decomposed Rock) (Sand)	5	Dry to Moist	Dense	Infiltration Test performed at 7-ft
	101		10			
		TEST PIT COMPLETED AT 12± FEET				
	96		15			
	91		20			

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TEST PIT NUMBER: PB-TP-14

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation
EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.360407 **LONGITUDE** -74.618534

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±109.8-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 12.0-ft
FINAL DEPTH 12.0-ft

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Tilled Soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	105	Tan/brown coarse to fine GRAVEL, and coarse to fine Sand, little Clayey Silt, with Cobbles (Decomposed Rock) (Sand)	5	Dry to Moist	Dense to Very Dense	Infiltration Test performed at 7-ft
	100		10			
		TEST PIT COMPLETED AT 12± FEET				
	95		15			
	90		20			

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TEST PIT NUMBER: PB-TP-15

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-14-2024 **COMPLETED** 03-14-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±113.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 12.0-ft
FINAL DEPTH 10.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.359675 **LONGITUDE** -74.615413

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Brown coarse to fine SAND, little coarse to fine Gravel, little Silty Clay, with Roots (Tilled soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Red-brown coarse to fine SAND, some coarse to fine Gravel, little Silty Clay (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	108	Tan/brown/red-brown coarse to fine Sand, and Clayey Silt, little medium to fine Gravel (Loamy Sand/Sandy Loam)	5	Dry to Moist	Loose to Medium Dense	Infiltration Test performed at 5-ft
		Tan/brown Clayey SILT, and medium to fine Sand (Silt Loam)		Moist	Medium Stiff to Stiff	
	103	TEST PIT COMPLETED AT 10± FEET	10			
	98		15			
	93		20			

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TEST PIT NUMBER: PB-TP-16

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±120.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 15.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.359892 **LONGITUDE** -74.612151

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		18-in Topsoil: Brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	115	Red-brown/orange-brown coarse to fine SAND, little coarse to fine Gravel, little Clayey Silt (Loamy Sand/Sandy Loam)	5	Dry to Moist	Loose to Medium Dense	Infiltration Test performed at 4-ft Mottling observed at 6-ft
	110	Tan/brown/gray Clayey SILT, some coarse to fine Gravel, trace coarse to fine Sand (Silt Loam)	10	Dry to Moist	Medium Stiff	
		TEST PIT COMPLETED AT 12± FEET				
	105		15			
	100		20			

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TEST PIT NUMBER: PB-TP-17

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±115.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 14.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.358155 **LONGITUDE** -74.612930

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		18-in Topsoil: Brown/dark brown coarse to fine SAND, some coarse to fine Gravel, trace Silty Clay, with Roots and 3/4" stone (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	110	Orange-brown coarse to fine SAND, some Clayey Silt, trace medium to fine Gravel (Loamy Sand/Sandy Loam)	5	Dry to Moist	Loose to Medium Dense	Infiltration Test performed at 5-ft
	105	Gray/brown coarse to fine SAND, and Clayey Silt, trace medium to fine Gravel (Loamy Sand/Sandy Loam)	10	Dry to Moist	Loose to Medium Dense	
		TEST PIT COMPLETED AT 12± FEET				
	100		15			
	95		20			

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GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

TEST PIT NUMBER: PB-TP-18

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±115.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 14.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321 Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.359705 **LONGITUDE** -74.611890

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		12-in Topsoil: Brown coarse to fine SAND, some Silty Clay, trace fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown/gray medium to fine SAND, some Clayey Silt, trace medium to fine Gravel (Loamy Sand/Sandy Loam)				
	110		5			Infiltration Test performed at 4-ft
				Dry to Moist	Loose to Medium Dense	Mottling observed at 6-ft
	105		10			
		TEST PIT COMPLETED AT 12± FEET				
	100		15			
	95		20			

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GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

TEST PIT NUMBER: PB-TP-19

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±103.7-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 15.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.359420 **LONGITUDE** -74.610310

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION 10.00 ft
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, some Clayey Silt (Tilled Soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	99	Tan/brown coarse to fine SAND, some Clayey Silt, trace medium to fine Gravel (Loamy Sand/Sandy Loam)	5	Dry to Moist	Loose to Medium Dense	Infiltration Test performed at 7-ft
	94		10			Seepage observed at 10-ft
		Gray coarse to fine GRAVEL, little coarse to fine Sand, little Clayey Silt (Decomposed Rock) (Sand/Loamy Sand)		Wet	Dense	
		TEST PIT COMPLETED AT 12± FEET				
	89		15			
	84		20			

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GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

TEST PIT NUMBER: PB-TP-20

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±99.9-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 14.0-ft
FINAL DEPTH 10.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.359186 **LONGITUDE** -74.609123

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION 8.00 ft
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, little Clayey Silt, trace fine Gravel, with Roots (Tilled Soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	~~Infiltration Test performed at 0-ft~~
	95	Tan/brown medium to fine SAND, some Clayey Silt, trace coarse to fine Gravel, with Cobbles Loamy Sand/Sandy Loam	5	Dry to Moist	Loose to Medium Dense	Infiltration Test performed at 6-ft
	90	Gray/tan/brown coarse to fine GRAVEL, little coarse to fine Sand, trace Clayey Silt (Decomposed Rock) (Sand/Loamy Sand)	10	Moist to Wet	Dense to Very Dense	Seepage observed at 8-ft
		TEST PIT COMPLETED AT 10± FEET DUE TO BUCKET REFUSAL				Bucket refusal on possible rock
	85		15			
	80		20			

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TEST PIT NUMBER: PB-TP-21

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±106.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 15.0-ft
FINAL DEPTH 11.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.360265 **LONGITUDE** -74.611290

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, some Silty Clay, with Roots (Tilled Soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	101	Tan/gray/brown coarse to fine SAND, some Clayey Silt, little medium to fine Gravel (Loamy Sand/Sandy Loam)	5	Dry to Moist	Loose to Medium Dense	Infiltration Test performed at 6-ft
	96		10			
		TEST PIT COMPLETED AT 11± FEET				
	91		15			
	86		20			

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TEST PIT NUMBER: PB-TP-22

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±101.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 15.0-ft
FINAL DEPTH 12.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.360412 **LONGITUDE** -74.610372

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION 9.00 ft
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, some Clayey Silt, with Roots (Tilled Soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Red-brown coarse to fine SAND, and coarse to fine Gravel, trace Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Dense	
	96	Tan/brown medium to fine SAND, some Clayey Silt, trace medium to fine Gravel (Loamy Sand/Sandy Loam)	5	Dry to Moist	Medium Dense	Infiltration Test performed at 6-ft
	91	Gray/tan/brown coarse to fine GRAVEL, little coarse to fine Sand, little Clayey Silt (Decomposed Rock) (Sand/Loamy Sand)	10	Wet	Dense	Slight Seepage observed at 9-ft
		TEST PIT COMPLETED AT 12± FEET				
	86		15			
	81		20			

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GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

TEST PIT NUMBER: PB-TP-23

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±99.5-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 13.0-ft
FINAL DEPTH 9.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.360119 **LONGITUDE** -74.610099

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION 4.00 ft
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, some Clayey Silt, with Roots (Tilled Soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown coarse to fine SAND, and coarse to fine Gravel, little Clayey Silt (Decomposed Rock) (Loamy Sand/Sandy Loam)		Dry to Moist	Medium Dense to Dense	
	95	Gray/tan/brown coarse to fine GRAVEL, some coarse to fine SAND, trace Clayey Silt, with Cobbles (Decomposed Rock) (Sand/Loamy Sand)	5	Dry to Wet	Dense to Very Dense	Infiltration Test performed at 4-ft Seepage observed at 6-ft
	90	TEST PIT COMPLETED AT 9± FEET DUE TO BUCKET REFUSAL	10			Bucket refusal on possible rock
	85		15			
	80		20			

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GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

TEST PIT NUMBER: PB-TP-24

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±94.7-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 15.0-ft
FINAL DEPTH 11.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.360037 **LONGITUDE** -74.609661

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION 6.00 ft
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		12-in Topsoil: Brown coarse to fine SAND, little Silty Clay, trace fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	90	Gray/red-brown coarse to fine SAND, and coarse to fine Gravel, trace Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Dense	Infiltration Test performed at 3-ft
		Gray/tan/brown coarse to fine SAND, some Clayey Silt, little coarse to fine Gravel (Loamy Sand/Sandy Loam)	5	Moist to Wet	Medium Dense	Mottling observed at 5-ft Seepage observed at 6-ft
	85	Gray/tan/brown coarse to fine GRAVEL, some coarse to fine Sand, little Clayey Silt (Decomposed Rock) (Sand/Loamy Sand)	10	Wet	Dense	
		TEST PIT COMPLETED AT 11± FEET				
	80		15			
	75		20			

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GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

TEST PIT NUMBER: PB-TP-25

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±95.2-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 14.0-ft
FINAL DEPTH 11.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.360907 **LONGITUDE** -74.609410

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION 6.00 ft
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		6-in Topsoil: Tan/brown coarse to fine SAND, some Clayey Silt, trace fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
	91	Tan/brown medium to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	Infiltration Test performed at 3-ft
		Gray/brown medium to fine SAND, some Clayey Silt, little medium to fine Gravel (Loamy Sand/Sandy Loam	5	Wet	Medium Dense	Mottling observed at 5-ft Slight Seepage observed at 6-ft
	86	Gray/tan/brown coarse to fine GRAVEL, little coarse to fine Sand, trace Clayey Silt (Decomposed Rock) (Sand/Loamy Sand)	10	Wet	Dense	
		TEST PIT COMPLETED AT 11± FEET				
	81		15			
	76		20			

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GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

TEST PIT NUMBER: PB-TP-26

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-18-2024 **COMPLETED** 03-18-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±105.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 13.0-ft
FINAL DEPTH 11.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY**
LATITUDE 40.360794 **LONGITUDE** -74.610924

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		Tan/brown coarse to fine SAND, some Clayey Silt, with Roots (Tilled Soil) (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	~~Infiltration Test performed at 0-ft~~
		Red-brown/dark brown Clayey SILT, some coarse to fine Sand, trace fine Gravel (Silt Loam)		Dry to Moist	Loose to Medium Dense	
	100		5			Infiltration Test performed at 6-ft
		Gray/red-brown/dark brown, coarse to fine Gravel, and coarse to fine Sand, some Clayey Silt (Decomposed Rock) (Loamy Sand/Sandy Loam)		Dry to Moist	Dense to Very Dense	
	95		10			
		TEST PIT COMPLETED AT 11± FEET				
	90		15			
	85		20			

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GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

TEST PIT NUMBER: PB-TP-27

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation
EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.361766 **LONGITUDE** -74.610321

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±94.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 14.0-ft
FINAL DEPTH 10.0-ft

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION 9.00 ft
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		6-in Topsoil: Tan/brown coarse to fine SAND, some Clayey Silt, trace fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown medium to fine SAND, some Clayey Silt (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	Infiltration Test performed at 1-ft
	89	Gray/tan/brown/red-brown coarse to fine SAND, and coarse to fine Gravel, trace Clayey Silt (Decomposed Rock) (Loamy Sand/Sandy Loam)	5	Moist to Wet	Dense to Very Dense	Mottling observed at 3-ft
	84	TEST PIT COMPLETED AT 10± FEET DUE TO BUCKET REFUSAL	10			Bucket refusal on probable rock
	79		15			
	74		20			

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TEST PIT NUMBER: PB-TP-28

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation
PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±100.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 14.0-ft
FINAL DEPTH 11.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.361794 **LONGITUDE** -74.610605

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		6-in Topsoil: Tan/brown coarse to fine SAND, little Clayey Silt, little medium to fine Gravel, with Roots (Loamy Sand/Sandy Loam)		Dry to Moist	Loose	
		Tan/brown/gray medium to fine SAND, some Clayey Silt Loamy Sand/Sandy Loam		Dry to Moist	Loose	Infiltration Test performed at 1-ft Mottling observed at 3-ft
	95	Dark brown/red-brown/gray coarse to fine Sand, and coarse to fine Gravel, little Clayey Silt, with Cobbles and Boulders (Decomposed Rock) (Loamy Sand/Sandy Loam)	5	Dry to Moist	Dense	
	90		10			
		TEST PIT COMPLETED AT 11± FEET				
	85		15			
	80		20			

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TEST PIT NUMBER: PB-TP-29

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±99.5-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 12.0-ft
FINAL DEPTH 10.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.361747 **LONGITUDE** -74.610829

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		6-in Topsoil: Brown medium to fine SAND, and Clayey Silt, trace coarse to fine Gravel, with Roots (Loam/Sandy Loam)		Dry to Moist	Loose	Infiltration Test performed at 0-ft
		Tan/brown medium to fine SAND, and Clayey Silt, trace coarse to fine Gravel (Loam/Sandy Loam)		Dry to Moist	Loose	Infiltration Test performed at 4-ft
	95	Brown coarse to fine SAND, some coarse to fine Gravel, little Clayey Silt, with cobbles, mottled (Loamy Sand/Sandy Loam)	5	Dry to Moist	Dense	Mottling oberved at 7-ft
	90	Dark gray/dark brown/orange-brown coarse to fine Sand, some coarse to fine Gravel, some Clayey Silt, with Cobbles (Loamy Sand/Sandy Loam)		Dry to Moist	Dense	
		TEST PIT COMPLETED AT 10± FEET	10			
	85		15			
	80		20			

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GEOTECHNICAL | ENVIRONMENTAL | SITE CIVIL

TEST PIT NUMBER: PB-TP-30

PROJECT NAME Proposed Mixed-Use Development
PROJECT NO. 12506
DATE STARTED 03-15-2024 **COMPLETED** 03-15-2024
EXCAVATION CONTRACTOR KP Excavation

PROJECT LOCATION Seminary Drive, South Brunswick, NJ
ELEVATION DATUM **GROUND ELEVATION** ±103.0-ft
EXPLORATION WIDTH 3.0-ft **EXPLORATION LENGTH** 14.0-ft
FINAL DEPTH 10.0-ft

EQUIPMENT CAT 321D Excavator
EXCAVATION FOREMAN Mike
LOGGED BY GM **CHECKED BY** NO
LATITUDE 40.361926 **LONGITUDE** -74.610980

GROUNDWATER LEVELS:
AT TIME OF EXCAVATION Not Encountered
AT END OF EXCAVATION
AFTER EXCAVATION

Material Symbol	EL (ft)	Soil Description	Depth Scale (ft)	Moisture	Relative Density	Remarks
		12-in Topsoil: Tan/brown coarse to fine SAND, some Silty Clay, little medium to fine Gravel (Loamy Sand/Sandy Loam		Dry to Moist	Loose	
		Tan/brown medium to fine Sand, and Clayey Silt, little coarse to fine Gravel, with Cobbles (Loam/Sandy Loam)		Dry to Moist	Loose	Infiltration Test performed at 2-ft
	98	Red-brown coarse to fine SAND, some Clayey Silt, little coarse to fine Gravel, with Cobbles (Loam/Sandy Loam)	5	Dry to Moist	Medium Dense	Mottling observed at 4-ft
	93	TEST PIT COMPLETED AT 10± FEET	10			
	88		15			
	83		20			

NJDEP Nonstructural Strategies Points System (NSPS)

Version: January 31, 2006

Note: Input Values in Yellow Cells Only

Project:	Princeton Nurseries
Date:	January 16, 2025
User:	BM
Notes:	

Step 1 - Provide Basic Major Development Site Information

A. Specify Total Area in Acres of Development Site Described in Steps 2 and 3 = 108.8 **Acres**

B. Specify by Percent the Various Planning Areas Located within the Development Site:

State Plan Planning Area:	PA-1	PA-2	PA-3	PA-4	PA-4B	PA-5	Total % Area
Percent of Each Planning Area within Site:		100.0%					100.0%

Note: See User's Guide for Equivalent Zones within Designated Centers and the NJ Meadowlands, Pinelands, and Highlands Districts

Step 2 - Describe Existing or Pre-Developed Site Conditions

A. Specify Existing Land Use/Land Cover Descriptions and Areas:

Site Segment	Land Use/Land Cover Description	Specify Land Use/Land Cover in Acres for Each HSG				Use/Cover Subtotals		Points
		HSG A	HSG B	HSG C	HSG D			
1	Wetlands and Undisturbed Stream Buffers					0.0		0
2	Lawn and Open Space		4.5	0.8		5.3		15
3	Brush and Shrub					0.0		0
4	Meadow, Pasture, Grassland, or Range		50.0	4.1		54.1		209
5	Row Crop					0.0		0
6	Small Grain and Legumes			3.9		3.9		7
7	Woods - Indigenous		23.9	8.3		32.2		126
8	Woods - Planted					0.0		0
9	Woods and Grass Combination		11.4			11.4		42
10	Ponds, Lakes, and Other Open Water					0.0		0
11	Gravel and Dirt					0.0		0
12	Porous and Permeable Paving					0.0		0
13	Directly Connected Impervious		1.9			1.9		0
14	Unconnected Impervious with Small D/S Pervious					0.0		0
15	Unconnected Impervious with Large D/S Pervious					0.0		0
	HSG Subtotals (Acres):	0.0	91.7	17.1	0.0		**Total Area:**	108.8
	HSG Subtotals (%):	0.0%	84.3%	15.7%	0.0%		**Total % Area:**	100.0%

Points Subtotal: **400**

Total Existing Site Points: **400**

Step 3 - Describe Proposed or Post-Developed Site Conditions

A. Specify Proposed Land Use/Land Cover Descriptions and Areas:

Site Segment	Land Use/Land Cover Description	Specify Land Use/Land Cover in Acres for Each HSG				Use/Cover Subtotals		Points
		HSG A	HSG B	HSG C	HSG D			
1	Wetlands and Undisturbed Stream Buffers					0.0		0
2	Lawn and Open Space		26.0	5.4		31.4		91
3	Brush and Shrub					0.0		0
4	Meadow, Pasture, Grassland, or Range					0.0		0
5	Row Crop					0.0		0
6	Small Grain and Legumes					0.0		0
7	Woods - Indigenous			3.9		3.9		12
8	Woods - Planted		11.2	5.3		16.5		59
9	Woods and Grass Combination					0.0		0
10	Ponds, Lakes, and Other Open Water					0.0		0
11	Gravel and Dirt					0.0		0
12	Porous and Permeable Paving		8.5	0.7		9.2		27
13	Directly Connected Impervious		46.0	1.8		47.8		0
14	Unconnected Impervious with Small D/S Pervious					0.0		0
15	Unconnected Impervious with Large D/S Pervious					0.0		0
	HSG Subtotals (Acres):	0.0	91.7	17.1	0.0		**Total Area:**	108.8
	HSG Subtotals (%):	0.0%	84.3%	15.7%	0.0%		**Total % Area:**	100.0%

Points Subtotal: **188**

B. Compare Proposed Impervious Coverage with Maximum Allowable Impervious Coverage:

Total Directly Connected Impervious Coverage =	44%	% of Site
Total Unconnected Impervious Coverage with Small D/S Pervious =	0%	% of Site
Total Unconnected Impervious Coverage with Large D/S Pervious =	0%	% of Site
Total Site Impervious Coverage =	44%	% of Site
Effective Site Impervious Coverage =	44%	% of Site
Specify Source of Maximum Allowable Impervious Coverage:	Table	(None or Table)
Allowable Site Impervious Cover from Maximum Impervious Cover Table:	52%	

Note: See Maximum Impervious Cover Table Worksheet for Details

Points Subtotal: 10

C. Compare Proposed Site Disturbance with Maximum Allowable Site Disturbance:

Total Proposed Site Disturbance =	78%	% of Site
Maximum Allowable Site Disturbance by Municipal Ordinance =	80%	% of Site

Points Subtotal: 2

D. Describe Proposed Runoff Conveyance System:

Total Length of Runoff Conveyance System =	2100	Feet
Length of Vegetated Runoff Conveyance System =	225	Feet
% of Total Runoff Conveyance System That is Vegetated =	11%	

Points Subtotal: 14

E. Residential Lot Clustering:

Percent of Total Site Area that will be Clustered =	35%	% of Site
Minimum Standard Lot Size as Per Zoning (Note: 1/2 Acre or Greater) =	0.500	Acres
Maximum Proposed Cluster Lot Size (Note:1/4 Acre or Less) =	0.080	Acres
Percent of Clustered Portion of Site to be Preserved as Vegetated Open Space =	25%	% of Clustered Site Portion

Points Subtotal: 22

F. Will the Following be Utilized to Minimize Soil Compaction?

Proposed Lawn Areas will be Graded with Lightweight Construction Equipment:	Yes	(Yes or No)
Percent of Proposed Lawn Areas to be Graded with Such Equipment:	60%	% of Lawn Areas

Points Subtotal: 19

G. Are Any of the Following Stormwater Management Standards Met Using Only Nonstructural Strategies and Measures?

Groundwater Recharge Standards (NJAC 7:8-5.4-a-2):	No	(Yes or No)
Stormwater Runoff Quality Standards (NJAC 7:8-5.5):	Yes	(Yes or No)
Stormwater Runoff Quantity Standards (NJAC 7:8-5.4-a-3):	No	(Yes or No)

Points Subtotal: 127

Note: If the Answers to All Three Questions at G Above are "Yes", Adequate Nonstructural Measures have been Utilized

Total Proposed Site Points: 381

Ratio of Proposed to Existing Site Points: 95%

Required Site Points Ratio: 95%

Nonstructural Point System Results: Proposed Nonstructural Measures are Adequate

SURFACE BASIN
GROUNDWATER MOUNDING

ESTIMATED DRAIN TIME CALCULATIONS AND INTERACTIVE GW MOUNDING EVALUATION

Pennoni

Name of Faciltiy: Princeton Nurseries
Location: Township of Plainsboro, Middlesex Co

Rev 04/11/25

Duration of Infiltration Period, t = volume of runoff to be infiltrated (cf)
Infiltration area (sf) x in/hr x 1

Basin	Input Variables			Output Drain Time	Adjusted Rate	Mound Height by Hantush Spreadsheet	Estimated Seasonal High Water	Groundwater Mound	Bottom of Basin	Interactive Groundwater Mound Height*
Basin	**Volume (CF)**	**Infiltration area (SF)**	**Permeability rate (in/hr)**	**Drain Time (hr)**	**Y/N**	**Ft.**	**ESHW (Elev)**	**GWM (ELEV)**	**Bottom of Basin (Elev)**	**Int. GWM (ELEV)**
BIO 1	16,433	4,791	6.67	6.17	N	20.07	67.50	87.57	77.00	
BIO 1**	16,433	4,791	0.57	71.96	Y	8.59	67.50	76.09	77.00	
INFIL 8	4,021	4,135	4.39	2.66	N	5.36	107.00	112.36	109.50	
INFIL 8**	4,021	4,135	0.30	38.90	Y	2.28	107.00	109.28	109.50	
BIO 12	14,447	5,445	9.09	3.50	N	14.52	79.50	94.02	85.25	85.18
BIO 12**	14,447	5,445	0.65	48.98	Y	5.35	79.50	84.85	85.25	83.86
BIO 25	19,806	13,504	3.88	4.54	N	9.69	93.50	103.19	100.00	
BIO 25**	19,806	13,504	0.25	70.40	Y	5.91	93.50	99.41	100.00	
BIO 26	10,287	4,356	15.00	1.89	N	9.79	87.30	97.09	97.00	
BIO 26**	10,287	4,356	1.00	28.34	Y	3.38	87.30	90.68	97.00	
BIO 28	2,134	4,138	15.00	0.41	N	3.32	89.00	92.32	91.00	92.95
BIO 28**	2,134	4,138	0.50	12.38	Y	1.72	89.00	90.72	91.00	90.56
INFIL 29	348	348	15.00	0.80	N	3.73	90.10	93.83	93.00	
INFIL 29**	348	348	0.67	17.91	Y	0.76	90.10	90.86	93.00	
INFIL 30	2,047	22,961	2.28	0.47	N	0.60	90.20	90.80	91.40	91.01
INFIL 30**	2,047	22,961	0.50	2.14	N	0.59	90.20	90.79	91.40	91.01
BIO 35	10,025	4,140	1.64	17.72	N	10.41	94.70	105.11	103.40	
BIO 35**	10,025	4,140	0.50	58.12	N	7.07	94.70	101.77	103.40	
BIO 36	653	740	3.00	3.53	N	6.45	87.30	93.75	98.00	
BIO 45	6,316	12,197	2.31	2.69	N	6.25	93.00	99.25	96.50	
BIO 45**	6,316	12,197	0.50	12.43	Y	3.44	93.00	96.44	96.50	
BIO 51	3,038	2,613	1.64	8.51	N	6.69	97.80	104.49	102.00	
BIO 51**	3,038	2,613	0.28	49.83	Y	4.05	97.80	101.85	102.00	
BIO 52	2,725	1,263	7.83	3.31	N	7.12	97.60	104.72	100.10	
BIO 52**	2,725	1,263	0.75	34.52	Y	1.91	97.60	99.51	100.10	
BIO 53	436	610	1.54	5.57	N	2.65	98.70	101.35	104.50	
BIO 58	4,356	6,534	1.00	8.00	N	4.43	102.80	107.23	106.40	
BIO 58**	4,356	6,534	0.13	61.54	Y	3.57	102.80	106.37	106.40	

* The interactive groundwater mound was calculated by adding the adjacent basin mound height at the boundary of the basin to the mound height at the center of the basi
** Adjusted recharge rate

NOTE:
Adjustment of the recharge rate to a lower value allows slower infiltration of runoff and more time for the infiltrated runoff to dissipate into the saturated zone.
A reduced recharge rate will have a smaller mounding height but result in a longer duration of infiltration period.
Several trials of different reduced recharge rates may be needed to find which recharge rate works.
The duration of infiltration period based on the reduced recharge rate may not exceed 72 hours.

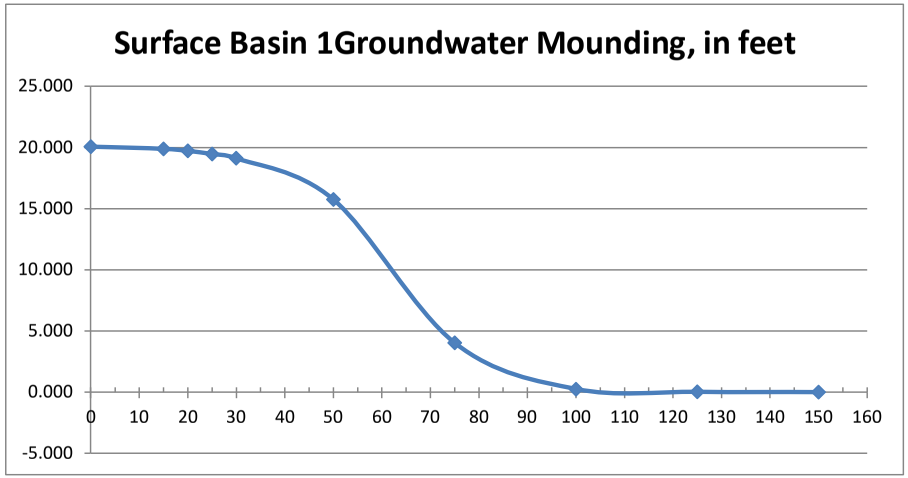
Input Values

6.67	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
6.67	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
62.000	x	1/2 length of basin (x direction, in feet)
34.000	y	1/2 width of basin (y direction, in feet)
6.17	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

30.074	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
20.074	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
20.074	0
19.889	15
19.720	20
19.471	25
19.115	30
15.744	50
4.021	75
0.245	100
0.013	125
0.008	150

Re-Calculate Now



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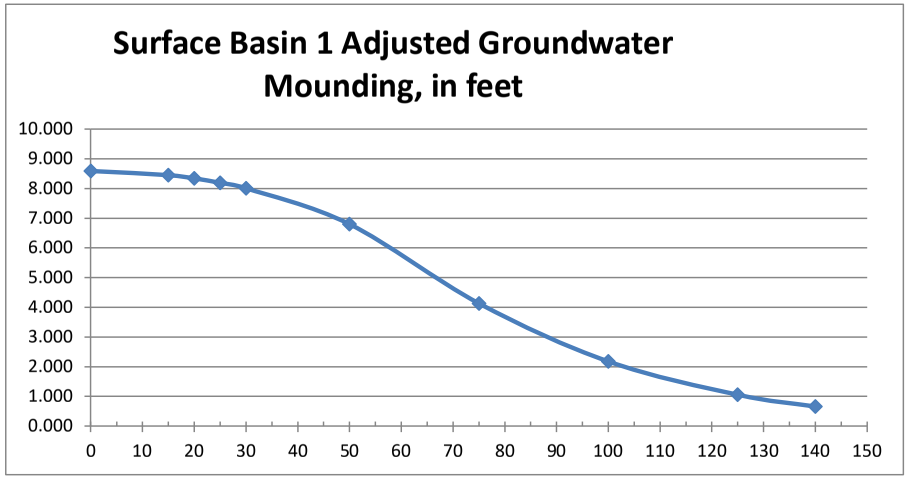
Input Values

0.57	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
6.67	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
62.000	x	1/2 length of basin (x direction, in feet)
34.000	y	1/2 width of basin (y direction, in feet)
71.96	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

18.591	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
8.591	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
8.591	0
8.450	15
8.338	20
8.191	25
8.006	30
6.799	50
4.132	75
2.174	100
1.053	125
0.657	140

Re-Calculate Now



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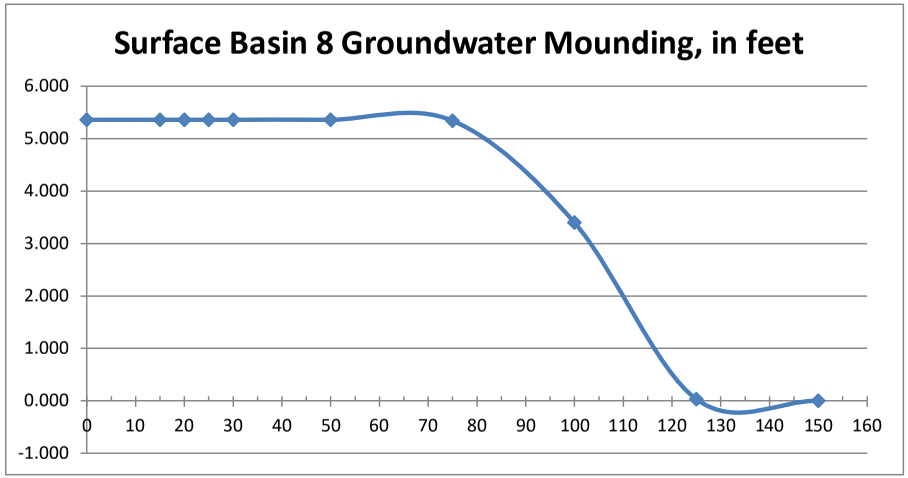
Input Values

4.39	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
4.39	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
102.000	x	1/2 length of basin (x direction, in feet)
12.000	y	1/2 width of basin (y direction, in feet)
2.66	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

15.362	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
5.362	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
5.362	0
5.362	15
5.362	20
5.362	25
5.362	30
5.362	50
5.343	75
3.401	100
0.029	125
0.002	150

Re-Calculate Now



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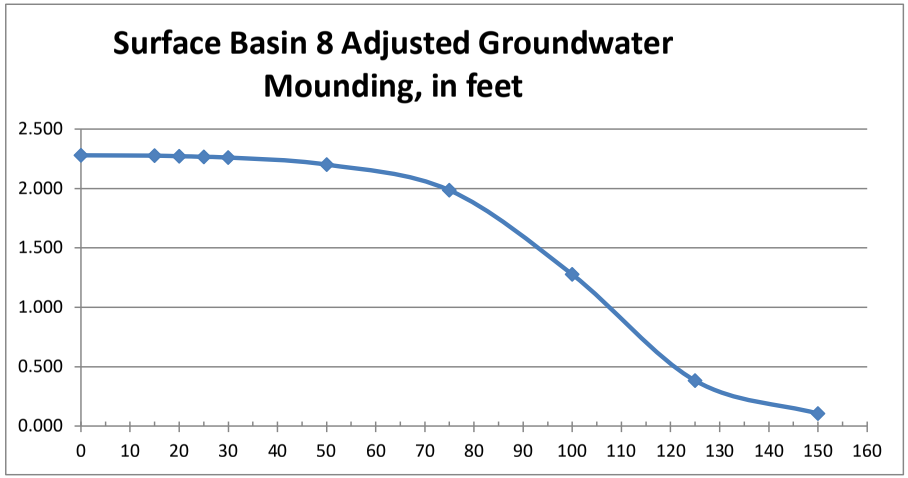
Input Values

0.30	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
4.39	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
102.000	x	1/2 length of basin (x direction, in feet)
12.000	y	1/2 width of basin (y direction, in feet)
38.90	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.280	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.280	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.280	0
2.276	15
2.272	20
2.267	25
2.260	30
2.202	50
1.985	75
1.277	100
0.383	125
0.105	150

Re-Calculate Now



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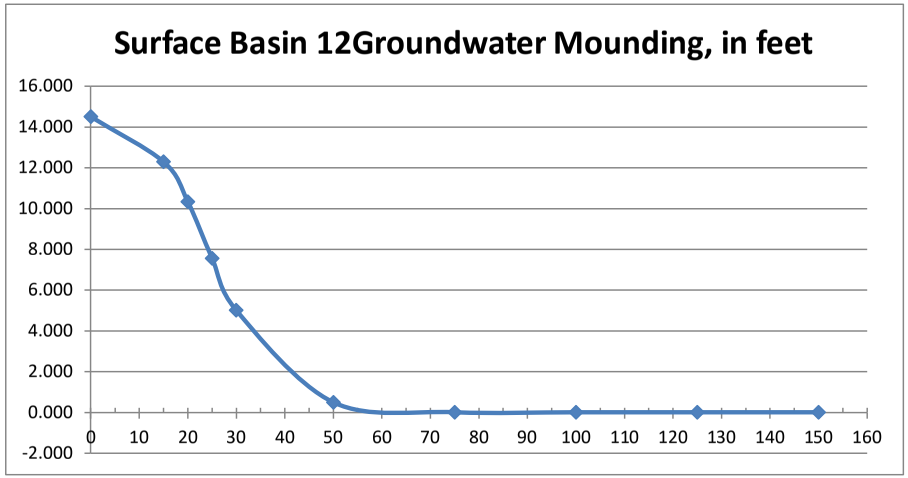
Input Values

9.09	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
9.09	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
23.000	x	1/2 length of basin (x direction, in feet)
56.000	y	1/2 width of basin (y direction, in feet)
3.50	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

24.516	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
14.516	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
14.516	0
12.295	15
10.338	20
7.559	25
5.013	30
0.502	50
0.014	75
0.006	100
0.006	125
0.006	150

Re-Calculate Now



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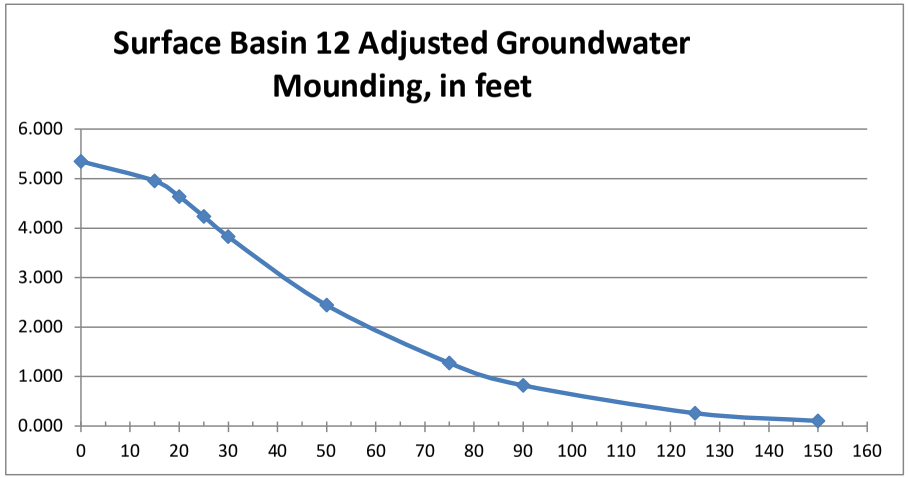
Input Values

0.65	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
9.09	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
23.000	x	1/2 length of basin (x direction, in feet)
56.000	y	1/2 width of basin (y direction, in feet)
48.98	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

15.349	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
5.349	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
5.349	0
4.954	15
4.637	20
4.234	25
3.825	30
2.445	50
1.273	75
0.820	90
0.260	125
0.105	150

Re-Calculate Now



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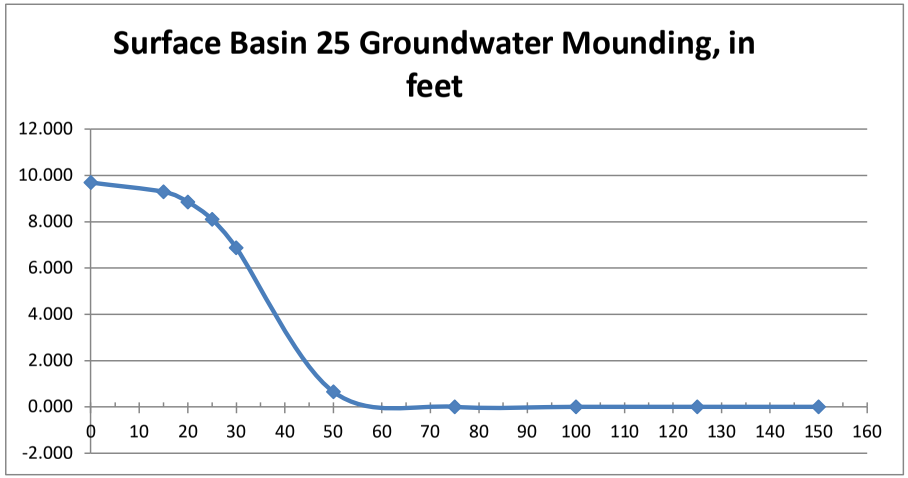
Input Values

3.88	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
3.88	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
35.000	x	1/2 length of basin (x direction, in feet)
97.000	y	1/2 width of basin (y direction, in feet)
4.54	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

19.690	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
9.690	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
9.690	0
9.296	15
8.854	20
8.102	25
6.873	30
0.655	50
0.007	75
0.003	100
0.003	125
0.003	150

Re-Calculate Now



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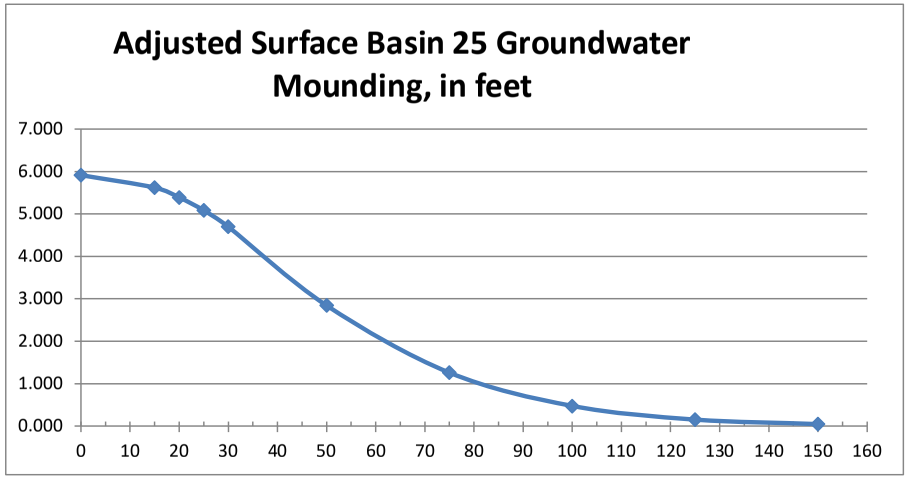
Input Values

0.25	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
3.88	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
35.000	x	1/2 length of basin (x direction, in feet)
97.000	y	1/2 width of basin (y direction, in feet)
70.40	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
15.917	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
5.917	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
5.917	0
5.623	15
5.390	20
5.084	25
4.700	30
2.841	50
1.261	75
0.472	100
0.153	125
0.044	150

Re-Calculate Now



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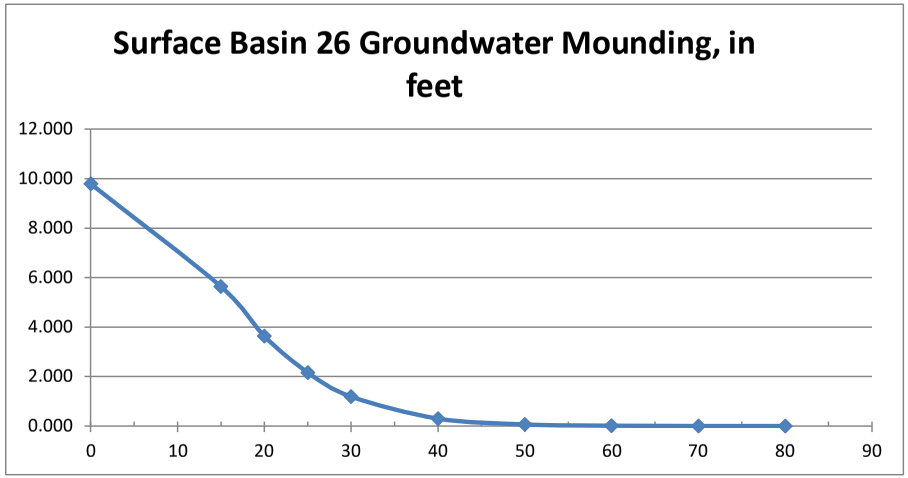
Input Values

15.00	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
15.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
12.000	x	1/2 length of basin (x direction, in feet)
83.000	y	1/2 width of basin (y direction, in feet)
1.89	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

19.791	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
9.791	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
9.791	0
5.640	15
3.638	20
2.164	25
1.195	30
0.304	40
0.065	50
0.015	60
0.006	70
0.005	80

Re-Calculate Now



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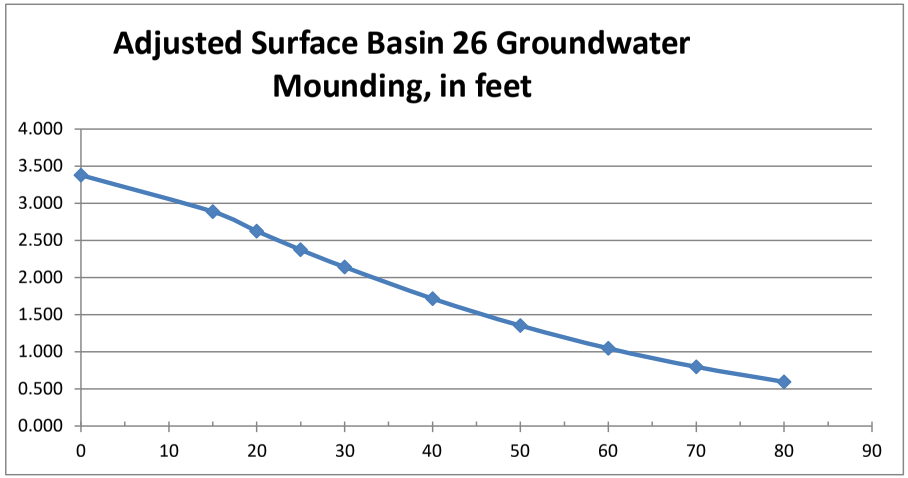
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
15.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
12.000	x	1/2 length of basin (x direction, in feet)
83.000	y	1/2 width of basin (y direction, in feet)
28.34	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.379	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.379	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.379	0
2.889	15
2.625	20
2.376	25
2.141	30
1.716	40
1.352	50
1.047	60
0.797	70
0.597	80

Re-Calculate Now



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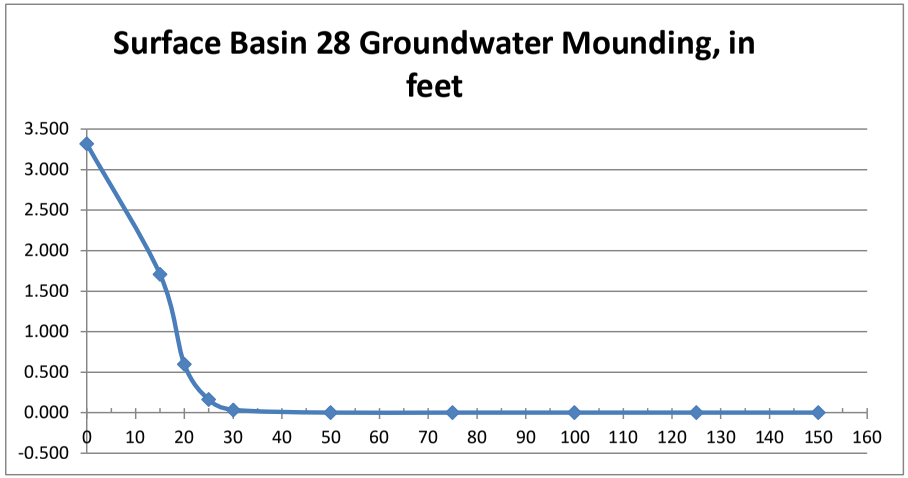
Input Values

15.00	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
15.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
15.000	x	1/2 length of basin (x direction, in feet)
95.000	y	1/2 width of basin (y direction, in feet)
0.41	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.320	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.320	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.320	0
1.709	15
0.597	20
0.162	25
0.035	30
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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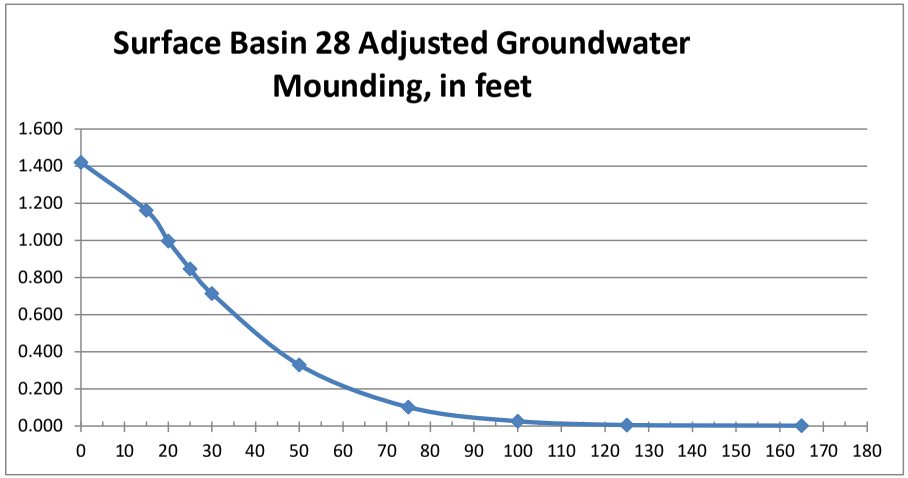
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
15.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
15.000	x	1/2 length of basin (x direction, in feet)
95.000	y	1/2 width of basin (y direction, in feet)
12.38	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
11.420	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.420	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.420	0
1.163	15
0.997	20
0.847	25
0.714	30
0.329	50
0.102	75
0.026	100
0.006	125
0.001	165

Re-Calculate Now



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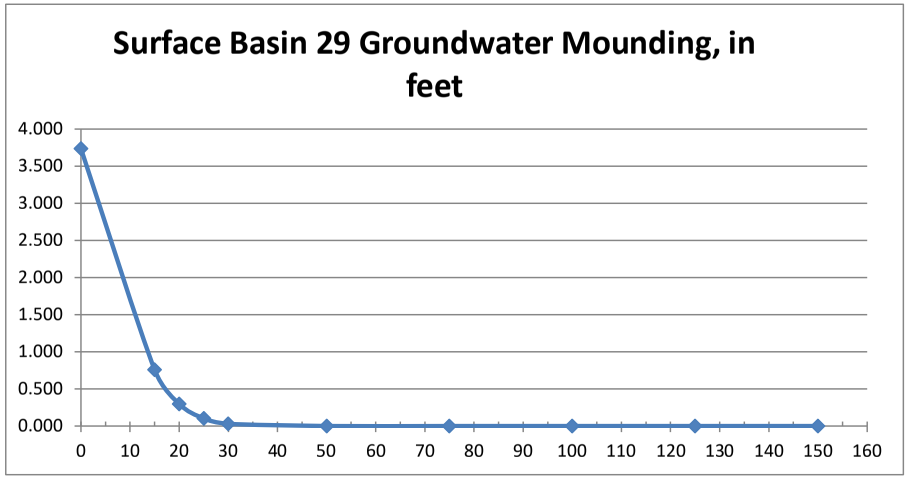
Input Values

15.00	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
15.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
6.000	x	1/2 length of basin (x direction, in feet)
30.000	y	1/2 width of basin (y direction, in feet)
0.80	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.738	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.738	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.738	0
0.758	15
0.298	20
0.103	25
0.032	30
0.002	50
0.002	75
0.002	100
0.002	125
0.002	150

Re-Calculate Now



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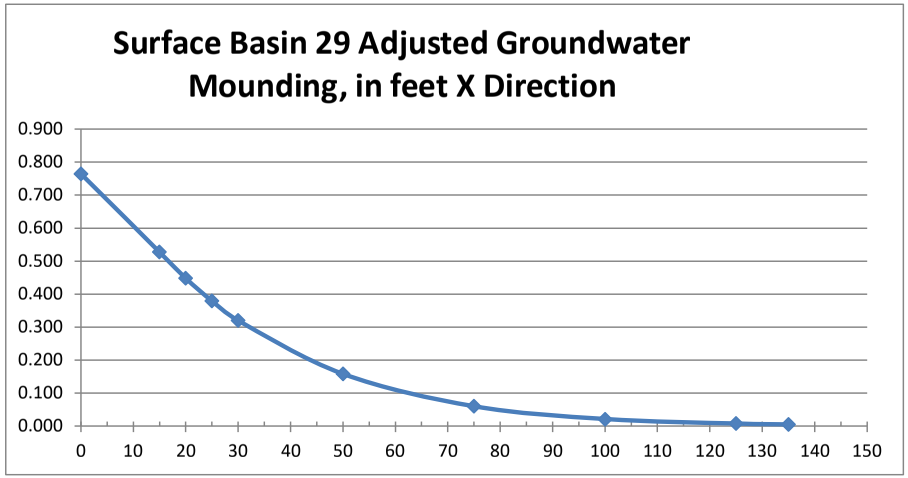
Input Values

0.67	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
15.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
6.000	x	1/2 length of basin (x direction, in feet)
30.000	y	1/2 width of basin (y direction, in feet)
17.91	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.764	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.764	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.764	0
0.527	15
0.448	20
0.379	25
0.320	30
0.158	50
0.060	75
0.021	100
0.007	125
0.005	135

Re-Calculate Now



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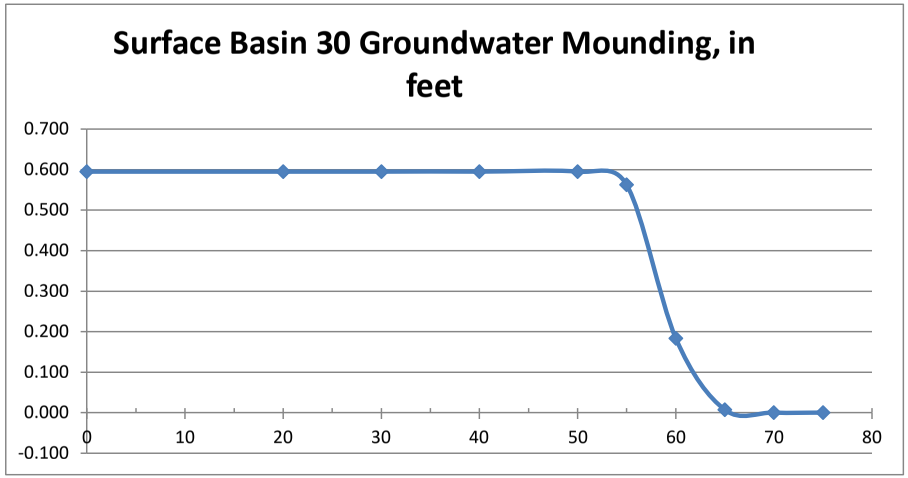
Input Values

2.28	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.28	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
59.000	x	1/2 length of basin (x direction, in feet)
82.000	y	1/2 width of basin (y direction, in feet)
0.47	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.595	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.595	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.595	0
0.595	20
0.595	30
0.595	40
0.595	50
0.563	55
0.184	60
0.007	65
0.000	70
0.000	75

Re-Calculate Now



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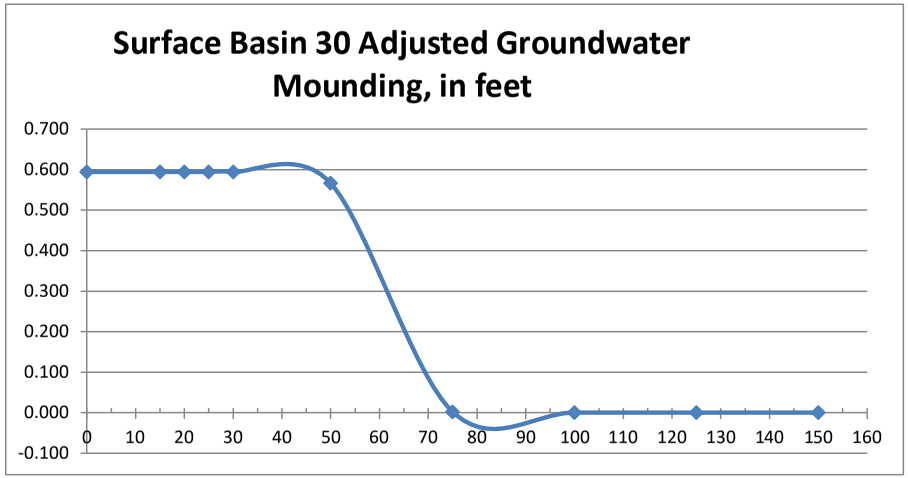
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.28	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
59.000	x	1/2 length of basin (x direction, in feet)
207.000	y	1/2 width of basin (y direction, in feet)
2.14	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
10.594	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.594	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.594	0
0.594	15
0.594	20
0.594	25
0.594	30
0.566	50
0.002	75
0.000	100
0.000	125
0.000	150

Re-Calculate Now



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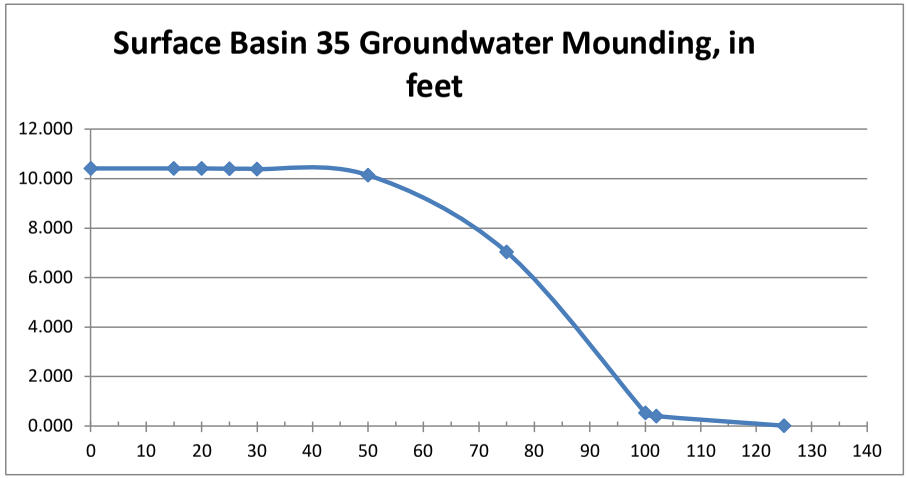
Input Values

1.64	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.64	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
79.000	x	1/2 length of basin (x direction, in feet)
13.000	y	1/2 width of basin (y direction, in feet)
17.72	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
20.410	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
10.410	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
10.410	0
10.409	15
10.406	20
10.400	25
10.389	30
10.138	50
7.039	75
0.530	100
0.403	102
0.014	125

Re-Calculate Now



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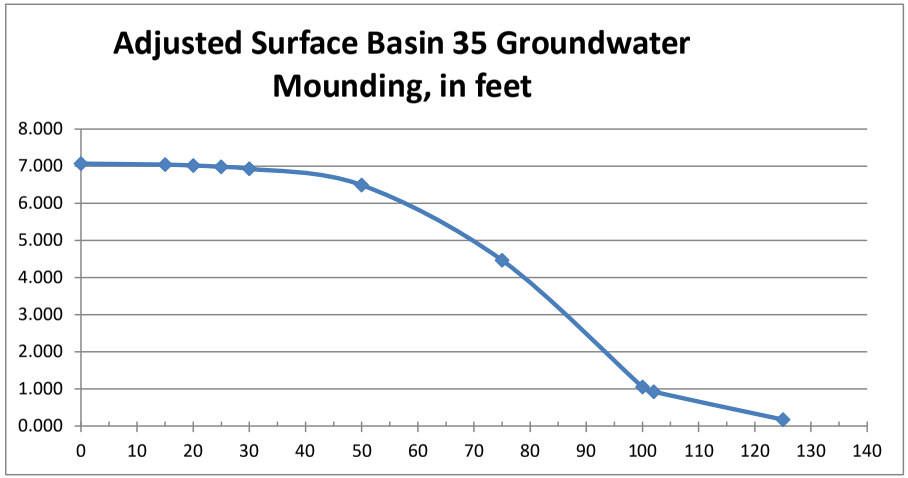
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.64	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
79.000	x	1/2 length of basin (x direction, in feet)
13.000	y	1/2 width of basin (y direction, in feet)
58.12	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

17.072	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
7.072	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
7.072	0
7.044	15
7.019	20
6.983	25
6.933	30
6.493	50
4.468	75
1.050	100
0.920	102
0.174	125

Re-Calculate Now



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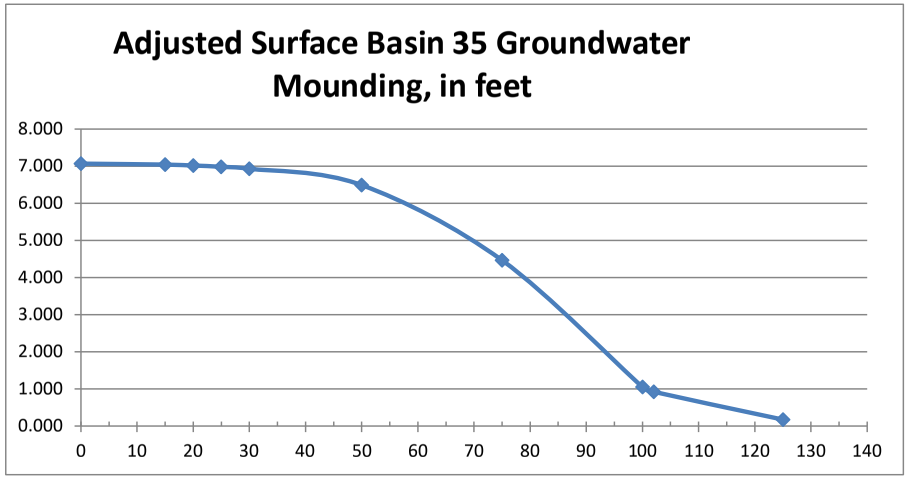
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.64	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
79.000	x	1/2 length of basin (x direction, in feet)
13.000	y	1/2 width of basin (y direction, in feet)
58.12	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

17.072	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
7.072	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
7.072	0
7.044	15
7.019	20
6.983	25
6.933	30
6.493	50
4.468	75
1.050	100
0.920	102
0.174	125

Re-Calculate Now



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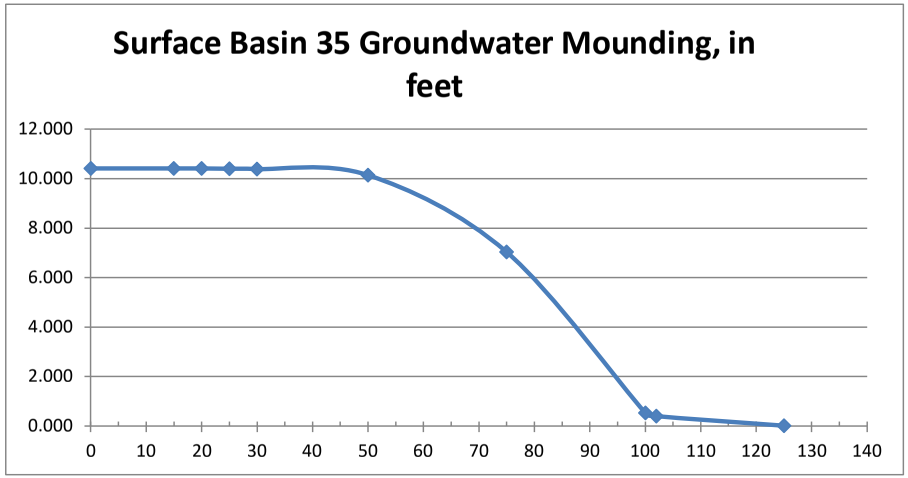
Input Values

1.64	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.64	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
79.000	x	1/2 length of basin (x direction, in feet)
13.000	y	1/2 width of basin (y direction, in feet)
17.72	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
20.410	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
10.410	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
10.410	0
10.409	15
10.406	20
10.400	25
10.389	30
10.138	50
7.039	75
0.530	100
0.403	102
0.014	125

Re-Calculate Now



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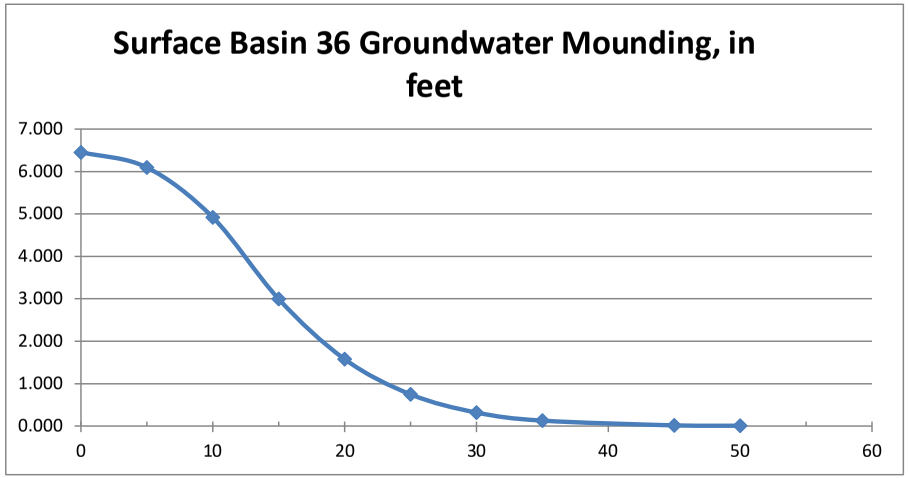
Input Values

3.53	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
3.53	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
12.000	x	1/2 length of basin (x direction, in feet)
18.000	y	1/2 width of basin (y direction, in feet)
4.88	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.453	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.453	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.453	0
6.093	5
4.921	10
2.995	15
1.577	20
0.746	25
0.321	30
0.127	35
0.017	45
0.007	50

Re-Calculate Now



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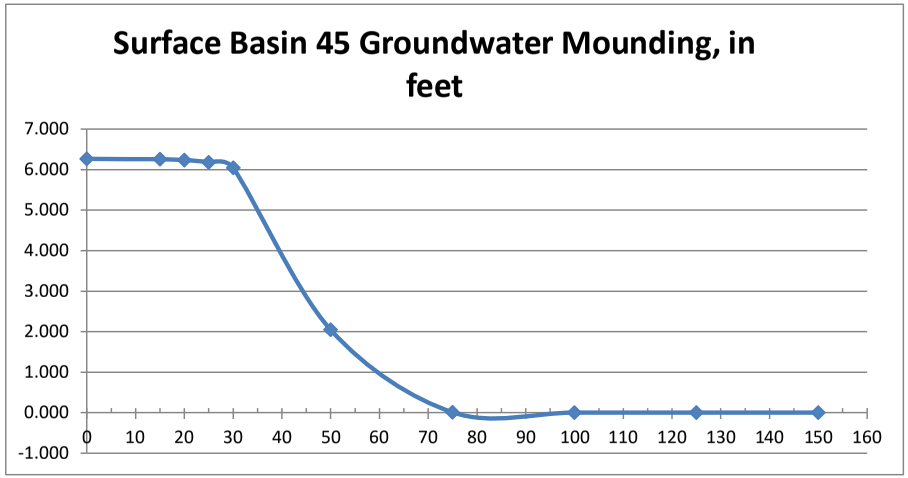
Input Values

2.31	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.31	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
47.000	x	1/2 length of basin (x direction, in feet)
71.000	y	1/2 width of basin (y direction, in feet)
4.88	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.262	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.262	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.262	0
6.255	15
6.236	20
6.182	25
6.044	30
2.048	50
0.010	75
0.002	100
0.002	125
0.002	150

Re-Calculate Now



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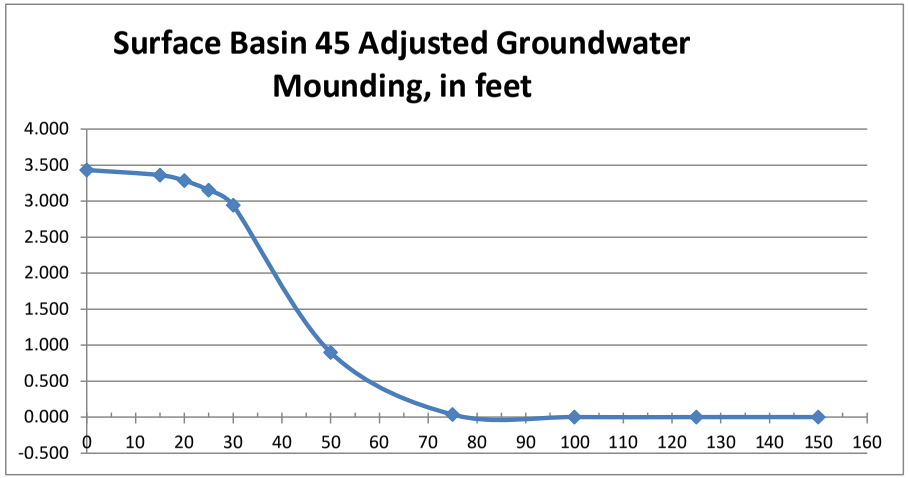
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.31	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
43.000	x	1/2 length of basin (x direction, in feet)
56.000	y	1/2 width of basin (y direction, in feet)
12.43	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.431	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.431	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.431	0
3.361	15
3.283	20
3.152	25
2.941	30
0.899	50
0.037	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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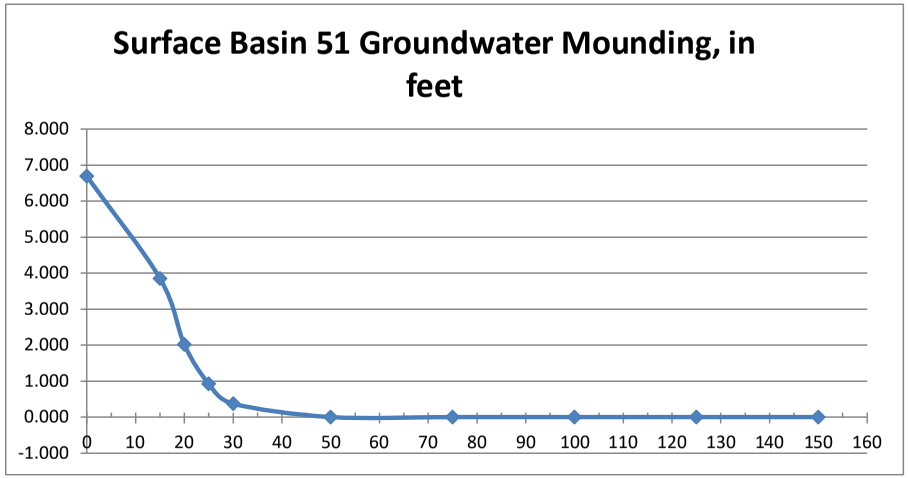
Input Values

1.64	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.64	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
15.000	x	1/2 length of basin (x direction, in feet)
48.000	y	1/2 width of basin (y direction, in feet)
8.51	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.691	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.691	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.691	0
3.854	15
2.017	20
0.927	25
0.378	30
0.006	50
0.003	75
0.003	100
0.003	125
0.003	150

Re-Calculate Now



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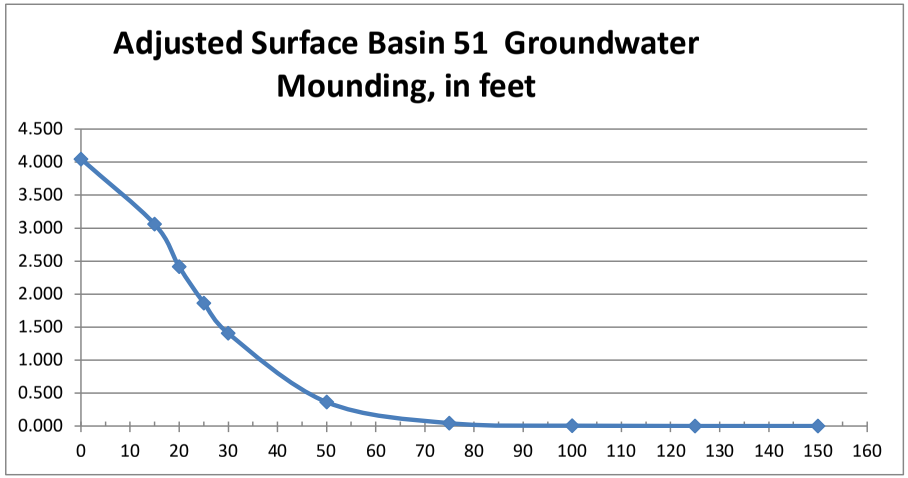
Input Values

0.28	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.64	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
15.000	x	1/2 length of basin (x direction, in feet)
48.000	y	1/2 width of basin (y direction, in feet)
49.83	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

14.047	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.047	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.047	0
3.060	15
2.417	20
1.865	25
1.406	30
0.363	50
0.044	75
0.005	100
0.003	125
0.003	150

Re-Calculate Now



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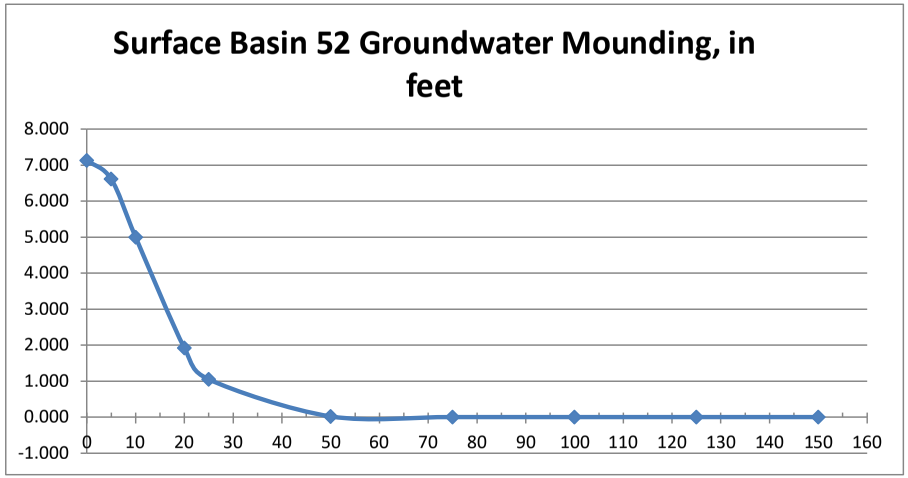
Input Values

7.83	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
7.83	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
9.000	x	1/2 length of basin (x direction, in feet)
22.000	y	1/2 width of basin (y direction, in feet)
3.31	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

17.127	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
7.127	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
7.127	0
6.616	5
4.996	10
1.921	20
1.056	25
0.024	50
0.005	75
0.005	100
0.005	125
0.005	150

Re-Calculate Now



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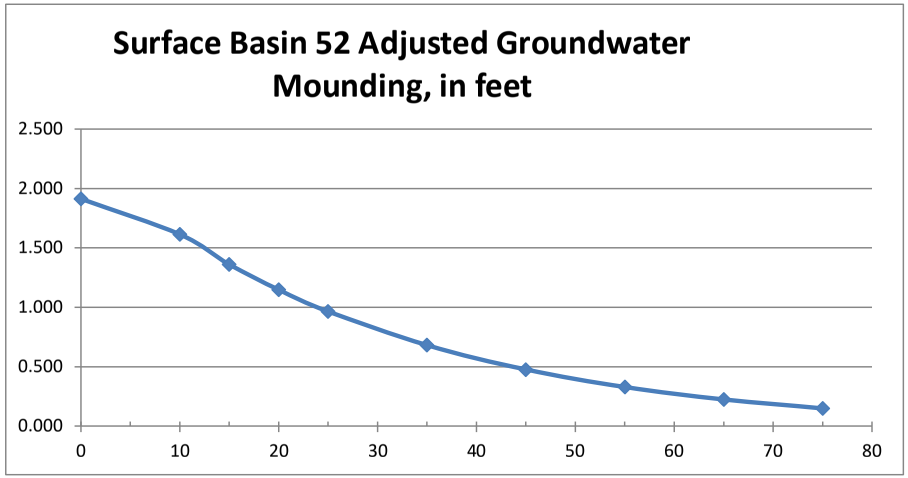
Input Values

0.75	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
7.83	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
9.000	x	1/2 length of basin (x direction, in feet)
22.000	y	1/2 width of basin (y direction, in feet)
34.52	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
11.914	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.914	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.914	0
1.614	10
1.362	15
1.147	20
0.966	25
0.681	35
0.476	45
0.328	55
0.223	65
0.150	75

Re-Calculate Now



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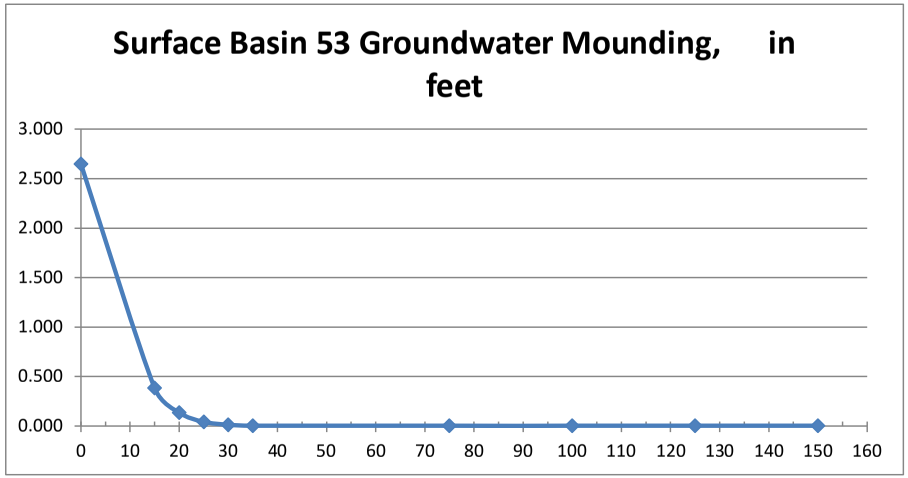
Input Values

1.54	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.54	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
4.000	x	1/2 length of basin (x direction, in feet)
39.000	y	1/2 width of basin (y direction, in feet)
7.03	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.647	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.647	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.647	0
0.384	15
0.136	20
0.042	25
0.012	30
0.004	35
0.002	75
0.002	100
0.002	125
0.002	150

Re-Calculate Now



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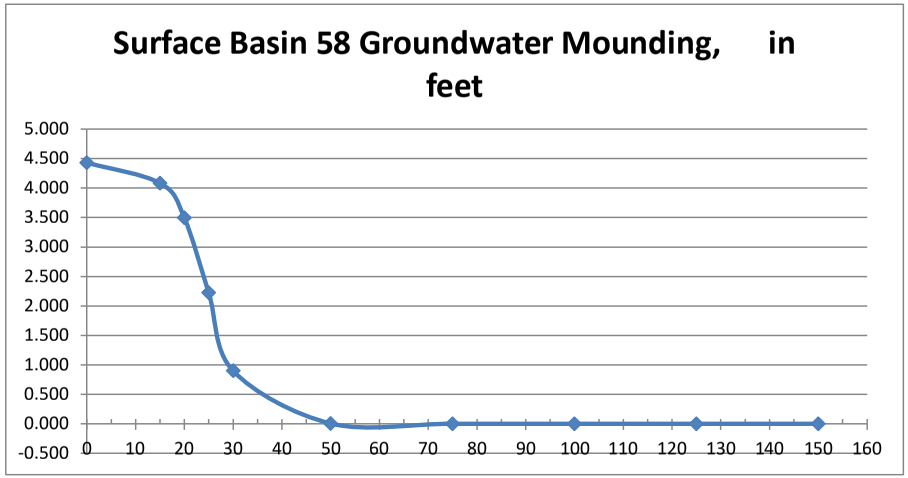
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
25.000	x	1/2 length of basin (x direction, in feet)
84.000	y	1/2 width of basin (y direction, in feet)
8.00	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

14.430	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.430	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.430	0
4.084	15
3.494	20
2.223	25
0.901	30
0.005	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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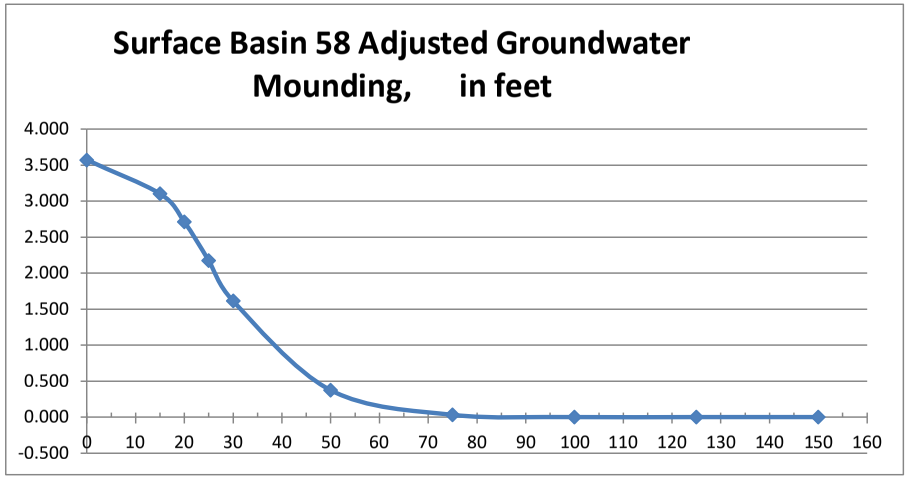
Input Values

0.13	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
25.000	x	1/2 length of basin (x direction, in feet)
77.000	y	1/2 width of basin (y direction, in feet)
61.50	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.572	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.572	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.572	0
3.101	15
2.711	20
2.176	25
1.617	30
0.375	50
0.035	75
0.003	100
0.002	125
0.001	150

Re-Calculate Now



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SUBSURFACE BASIN
GROUNDWATER MOUNDING

ESTIMATED DRAIN TIME CALCULATIONS AND INTERACTIVE GROUNDWATER MOUNDING EVALUATION
SUBSURFACE BASINS
Name of Faciltiy: Princeton Nurseries
Location: Township of Plainsboro, Middlesex Co

Rev 04/11/25

Duration of Infiltration Period, t = volume of runoff to be infiltrated (cf)
Infiltration area (sf) x in/hr x 1

Basin	Input Variables			Output Drain Time	Adjusted Rate	Mound Height by Hantush Spreadsheet	Estimated Seasonal High Water	Groundwater Mound	Bottom of Basin	Interactive Groundwater Mound Height*
Basin	**Volume (CF)**	**Infiltration area (SF)**	**Permeability rate (in/hr)**	**Drain Time (hr)**	**Y/N**	**Ft.**	**ESHW (Elev)**	**GWM (ELEV)**	**Bottom of Basin (Elev)**	**Int. GWM (ELEV)**
UGB2	1,306	2,079	6.67	1.13	N	3.24	67.50	70.74	85.25	69.80
UGB 3	1,446	1,680	1.50	6.89	Y	2.07	79.50	81.57	85.50	82.54
UGB4	6,927	2,050	4.39	9.24	N	9.54	67.50	77.04	85.10	
UGB4**	6,927	2,050	2.19	18.52	N	6.81	67.50	74.31	85.10	
UGB5	1,945	1,154	1.94	10.43	N	6.96	86.00	92.96	94.00	
UGB6	1,976	1,154	1.94	10.59	Y	7.02	86.00	93.02	94.00	
UGB6**	1,976	1,154	0.50	41.10	Y	3.90	86.00	89.90	94.00	
UGB7	3,232	2,128	1.33	13.70	N	8.72	94.30	103.02	99.00	
UGB7**	3,232	2,128	0.26	70.10	Y	4.57	94.30	98.87	99.00	
UGB9	784	1,180	1.33	5.99	N	3.72	94.30	98.02	100.30	
UGB10	566	2,068	1.33	2.47	N	1.78	94.30	96.08	106.00	
UGB11	4,668	1,260	6.67	6.67	N	10.70	67.50	78.20	84.08	
UGB13	697	881	0.50	18.99	N	2.81	67.50	70.31	86.00	70.20
UGB14	392	739	0.50	12.73	N	2.00	80.50	82.50	86.25	82.58
UGB 15**	4,263	7,560	0.50	13.53	Y	3.76	87.10	90.86	92.00	90.86
UGB 16	6,077	10,505	0.59	11.77	N	3.85	88.30	92.15	94.00	92.87
UGB17	653	12,660	0.50	1.24	N	0.34	101.50	101.84	110.50	
UGB18	1,132	1,187	1.00	11.44	N	4.85	87.30	92.15	94.00	
UGB19	3,159	1,112	2.30	14.82	N	9.32	87.30	96.62	94.50	
UGB19**	3,159	1,112	1.00	34.09	N	6.45	87.30	93.75	94.50	
UGB20	1,669	5,582	2.30	1.56	N	1.91	95.10	97.01	97.10	
UGB20**	1,669	5,582	0.25	14.35	N	1.62	95.10	96.72	97.10	
UGB21	610	1,220	2.30	2.61	N	2.97	95.10	98.07	98.00	
UGB21**	610	1,220	1.50	4.00	Y	2.74	95.10	97.84	98.00	
UGB22	653	11,316	2.30	0.30	N	0.38	95.10	95.48	107.00	
UGB27	5,044	2,218	3.00	9.10	N	9.54	90.10	99.64	99.00	
UGB27**	5,044	2,218	1.00	27.29	N	6.48	90.10	96.58	99.00	
UGB31	1,002	2,769	1.00	4.34	N	2.19	87.30	89.49	92.60	
UGB32	2,657	11,552	0.50	5.52	N	1.53	107.00	108.53	109.75	
UGB33	348	2,146	0.50	3.89	N	1.03	94.70	95.73	105.82	
UGB34	392	3,706	0.50	2.54	N	0.69	107.50	108.19	109.50	
UGB37	392	2,218	7.83	0.27	N	1.17	87.30	88.47	103.50	
UGB41	175	552	0.06	63.41	N	0.81	95.10	95.91	104.00	
UGB42	305	2,043	2.31	0.78	N	1.00	93.00	94.00	95.00	94.01
UGB43	3,255	2,218	2.31	7.62	N	6.87	93.00	99.87	98.00	94.29
UGB43**	3,255	2,218	0.50	35.22	N	4.09	93.00	97.09	98.00	94.29
UGB44	3,261	2,387	0.50	32.79	N	5.36	95.10	100.46	101.00	96.28
UGB46	523	412	0.22	69.24	N	1.50	94.7	96.20	103.00	
UGB47	1,002	2,016	1.64	3.64	N	3.16	94.7	97.86	108.00	
UGB48	218	708	7.83	0.47	N	1.95	97.60	99.55	100.90	
UGB49	348	671	1.54	4.04	N	3.03	98.70	101.73	102.70	
UGB50	740	412	1.54	14.00	N	3.79	98.70	102.49	101.00	
UGB50**	740	412	0.50	43.11	Y	2.14	98.70	100.84	101.00	
UGB54	392	927	7.83	0.65	N	2.51	98.70	101.21	99.00	
UGB54**	392	927	0.50	10.15	Y	1.09	97.60	98.69	99.00	
UGB55	4,007	13,200	0.75	4.86	N	2.03	102.80	104.83	106.00	
UGB56	3,528	21,359	0.75	2.64	N	0.97	101.95	102.92	110.00	
UGB57	1,655	11,405	0.75	2.32	N	1.21	102.80	104.01	111.10	
UGB59	12,451	17,576	0.50	17.00	N	4.72	98.00	102.72	104.00	
UGB60	1,916	11,405	0.75	2.69	N	1.21	108.00	109.21	111.10	
UGB61	1,960	2,128	0.26	42.51	N	2.02	103.70	105.72	107.75	
UGB62**	4,835	16,292	0.40	8.90	N	1.96	100.30	102.26	108.00	
UGB63	1,263	8,253	0.63	2.91	N	1.02	92.50	93.52	104.00	

* The interactive groundwater mound was calculated by adding the adjacent basin mound height at the boundary of the basin to the mound height at the center of the basin.
** Adjusted recharge rate

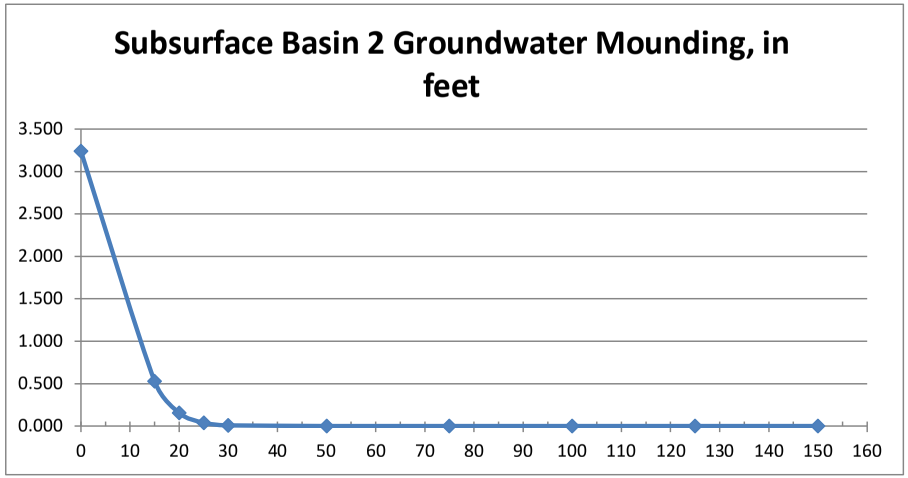
NOTE:
Adjustment of the recharge rate to a lower value allows slower infiltration of runoff and more time for the infiltrated runoff to dissipate into the saturated zone.
A reduced recharge rate will have a smaller mounding height but result in a longer duration of infiltration period.
Several trials of different reduced recharge rates may be needed to find which recharge rate works.
The duration of infiltration period based on the reduced recharge rate may not exceed 72 hours.

Input Values

6.67	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
6.67	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
8.000	x	1/2 length of basin (x direction, in feet)
100.000	y	1/2 width of basin (y direction, in feet)
1.13	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
13.240	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.240	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.240	0
0.528	15
0.156	20
0.038	25
0.008	30
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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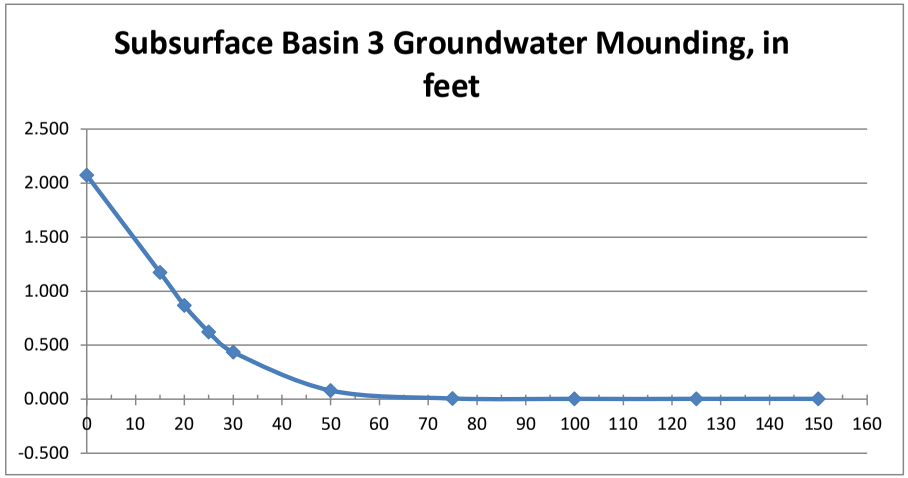
Input Values

1.50	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
9.09	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
7.500	x	1/2 length of basin (x direction, in feet)
56.000	y	1/2 width of basin (y direction, in feet)
6.89	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.074	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.074	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.074	0
1.174	15
0.868	20
0.624	25
0.436	30
0.080	50
0.007	75
0.002	100
0.002	125
0.002	150

Re-Calculate Now



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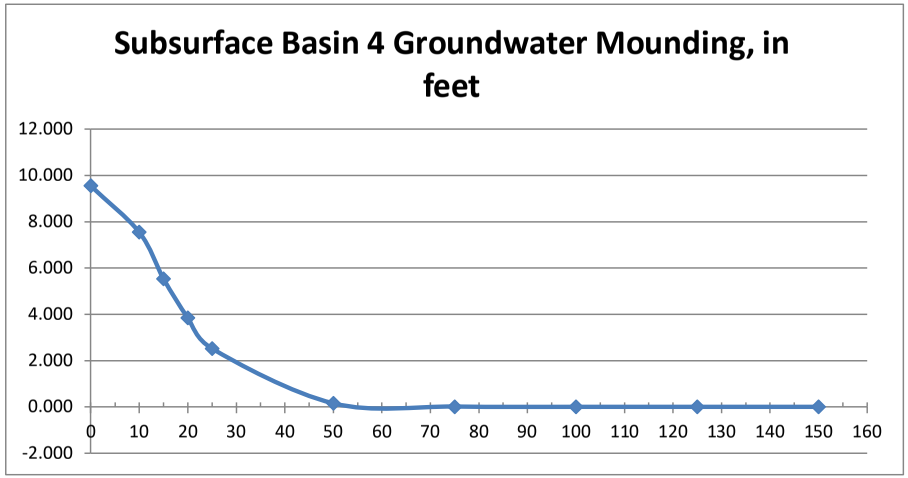
Input Values

4.39	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
4.39	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
25.000	y	1/2 width of basin (y direction, in feet)
9.24	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

19.548	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
9.548	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
9.548	0
7.544	10
5.536	15
3.844	20
2.519	25
0.151	50
0.010	75
0.008	100
0.008	125
0.008	150

Re-Calculate Now



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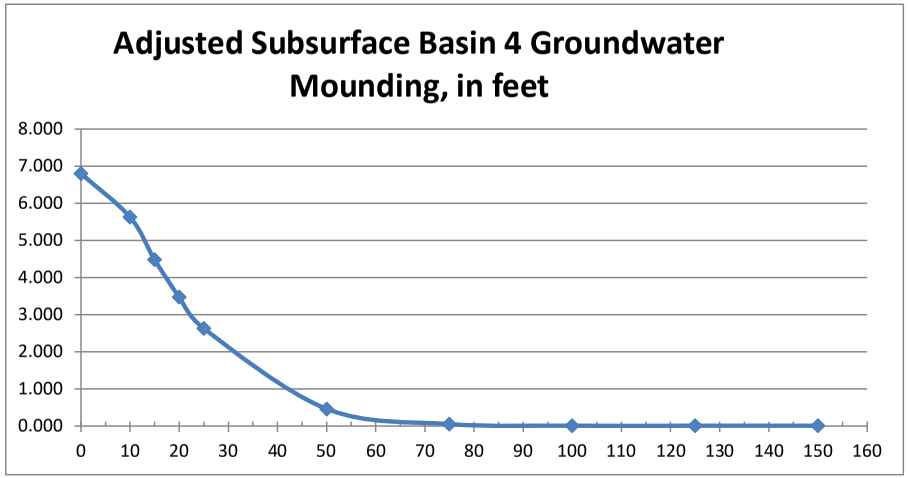
Input Values

2.19	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
4.39	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
25.000	y	1/2 width of basin (y direction, in feet)
18.52	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.805	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.805	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.805	0
5.634	10
4.481	15
3.477	20
2.633	25
0.462	50
0.054	75
0.010	100
0.008	125
0.008	150

Re-Calculate Now



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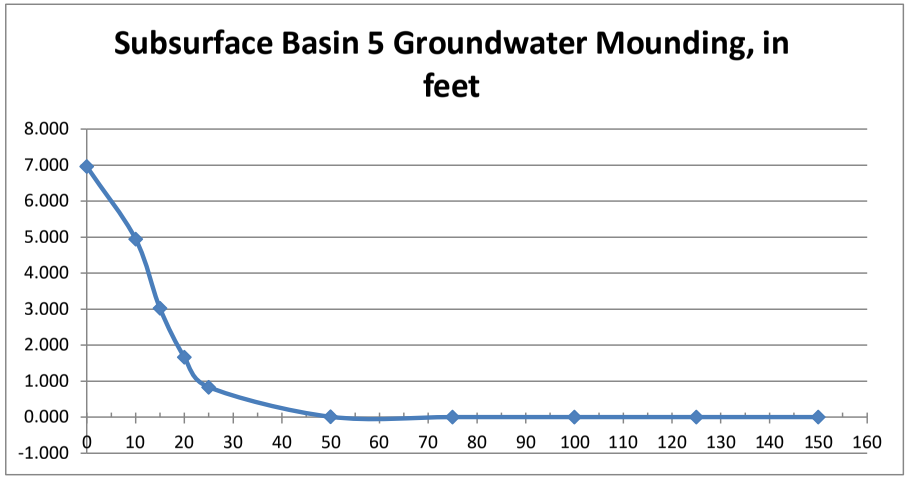
Input Values

1.94	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.94	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
28.000	y	1/2 width of basin (y direction, in feet)
10.43	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.962	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.962	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.962	0
4.944	10
3.025	15
1.667	20
0.834	25
0.011	50
0.004	75
0.004	100
0.004	125
0.004	150

Re-Calculate Now



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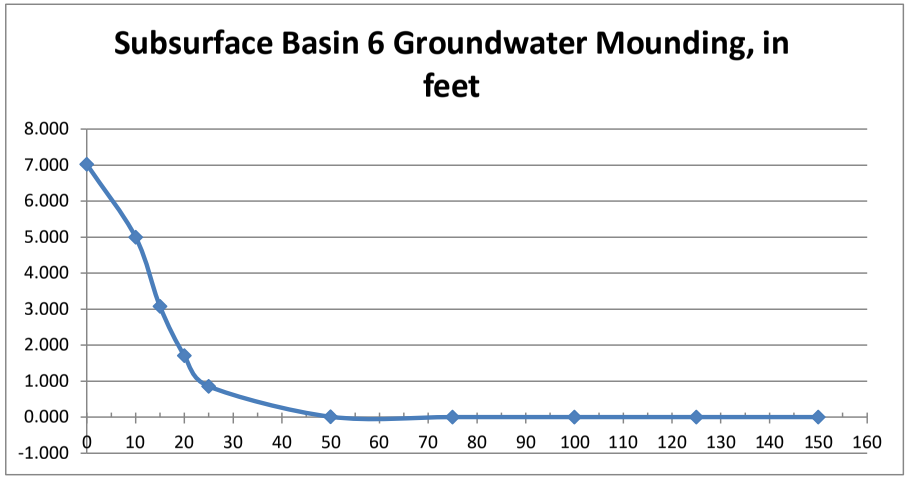
Input Values

1.94	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.94	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
28.000	y	1/2 width of basin (y direction, in feet)
10.59	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
17.022	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
7.022	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
7.022	0
5.001	10
3.076	15
1.706	20
0.860	25
0.012	50
0.004	75
0.004	100
0.004	125
0.004	150

Re-Calculate Now



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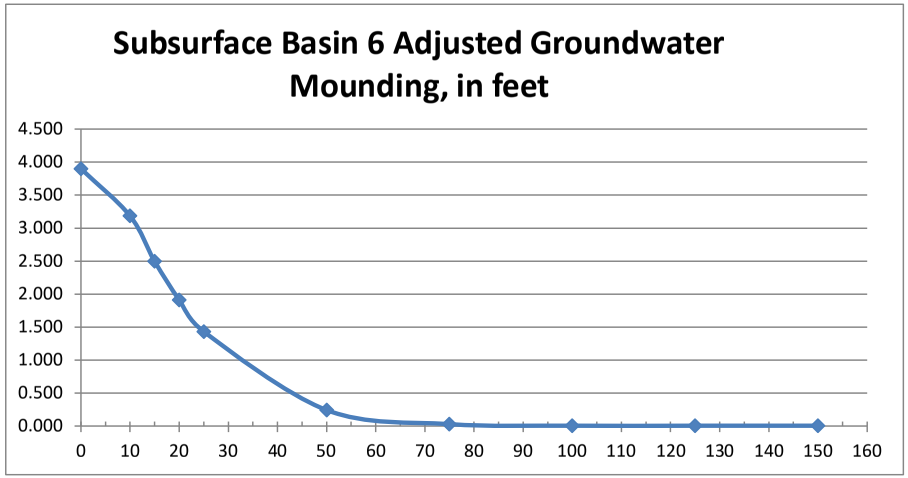
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.94	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
28.000	y	1/2 width of basin (y direction, in feet)
41.10	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.900	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.900	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.900	0
3.185	10
2.497	15
1.912	20
1.431	25
0.244	50
0.028	75
0.005	100
0.004	125
0.004	150

Re-Calculate Now



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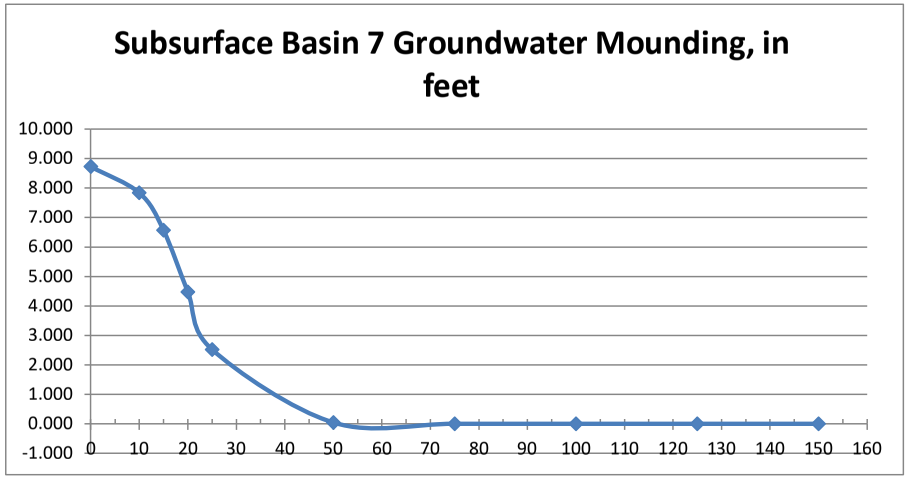
Input Values

1.33	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.33	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
19.000	x	1/2 length of basin (x direction, in feet)
29.000	y	1/2 width of basin (y direction, in feet)
13.70	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

18.727	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
8.727	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
8.727	0
7.837	10
6.567	15
4.473	20
2.520	25
0.037	50
0.003	75
0.003	100
0.003	125
0.003	150

Re-Calculate Now



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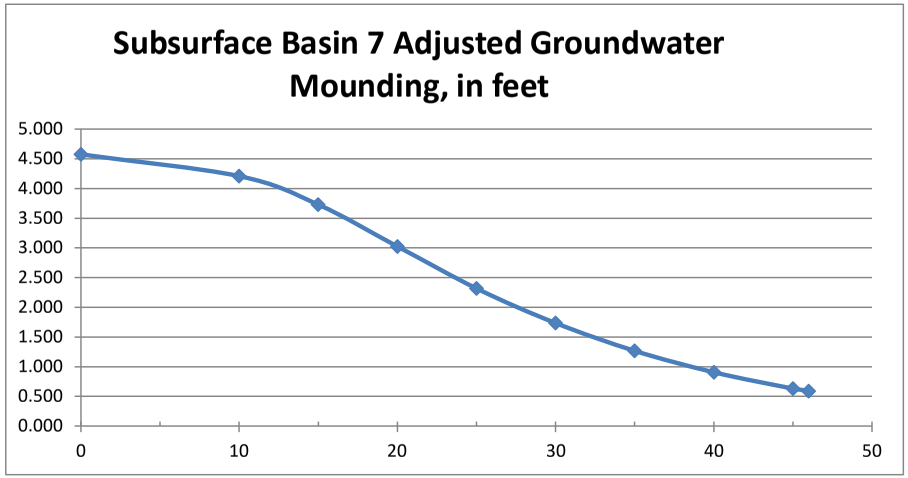
Input Values

0.26	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.33	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
19.000	x	1/2 length of basin (x direction, in feet)
29.000	y	1/2 width of basin (y direction, in feet)
58.79	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

14.572	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.572	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.572	0
4.208	10
3.730	15
3.025	20
2.317	25
1.733	30
1.267	35
0.905	40
0.633	45
0.588	46

Re-Calculate Now



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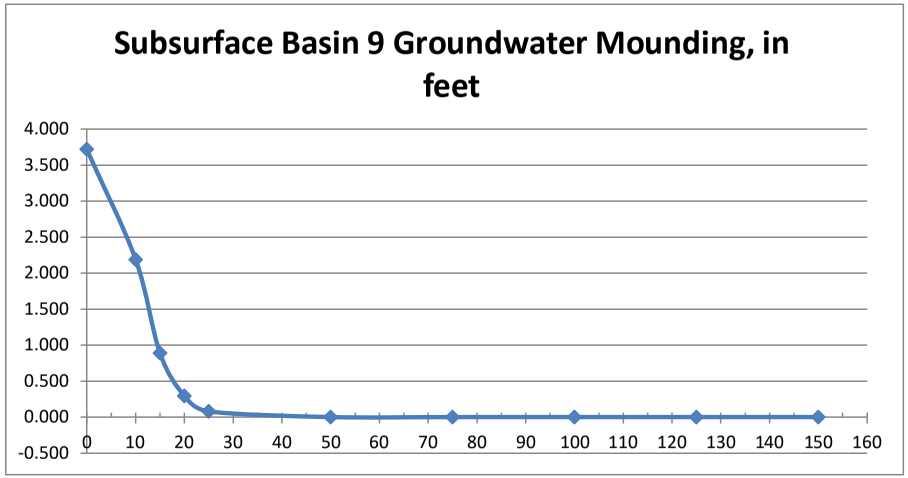
Input Values

1.33	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.33	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
29.000	y	1/2 width of basin (y direction, in feet)
5.99	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.720	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.720	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.720	0
2.188	10
0.891	15
0.296	20
0.081	25
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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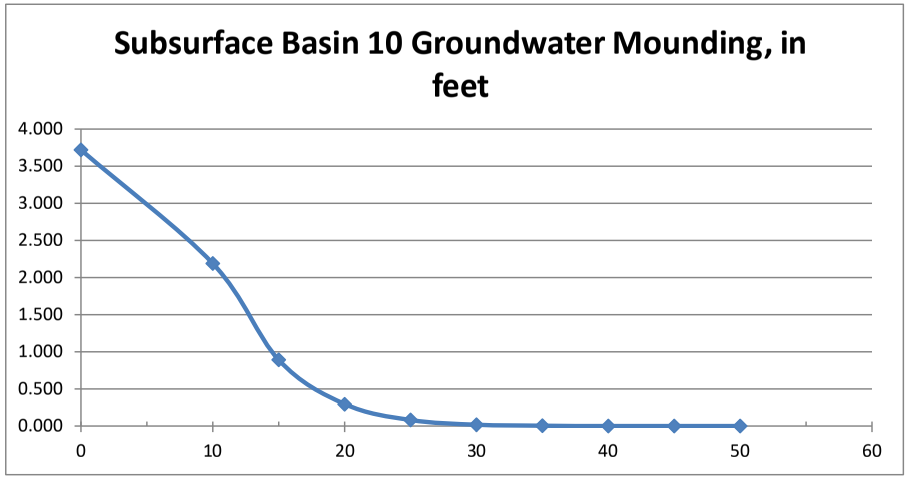
Input Values

1.33	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.33	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
29.000	y	1/2 width of basin (y direction, in feet)
5.99	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.720	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.720	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.720	0
2.188	10
0.891	15
0.296	20
0.081	25
0.019	30
0.005	35
0.002	40
0.002	45
0.001	50

Re-Calculate Now



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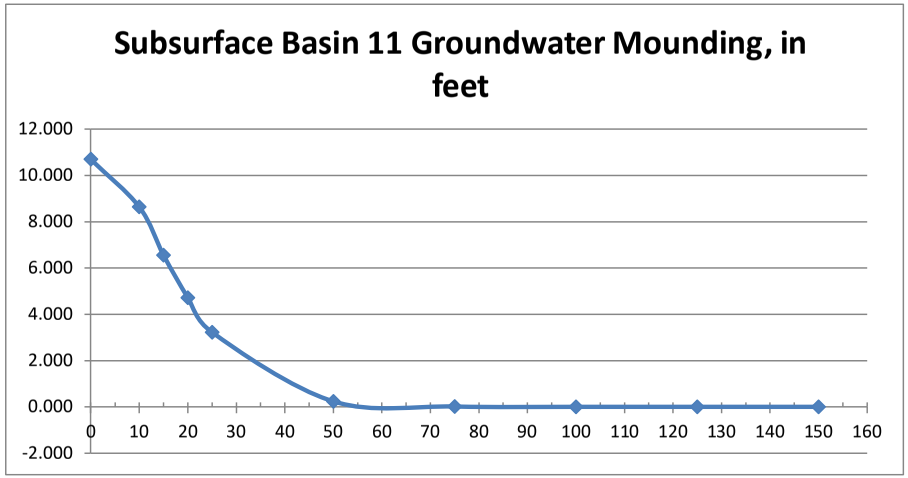
Input Values

6.67	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
6.67	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
35.000	y	1/2 width of basin (y direction, in feet)
6.67	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

20.702	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
10.702	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
10.702	0
8.643	10
6.555	15
4.721	20
3.217	25
0.234	50
0.014	75
0.008	100
0.008	125
0.008	150

Re-Calculate Now



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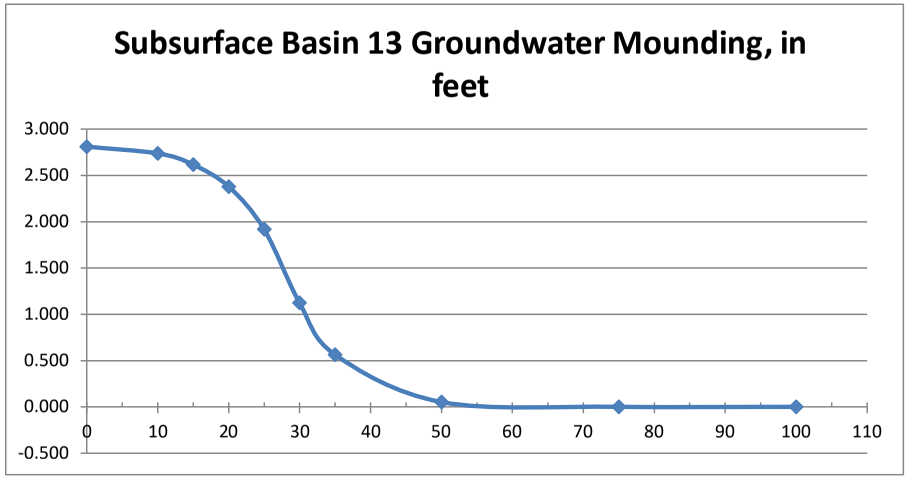
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
28.000	x	1/2 length of basin (x direction, in feet)
7.000	y	1/2 width of basin (y direction, in feet)
18.99	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
12.810	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.810	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.810	0
2.738	10
2.616	15
2.377	20
1.918	25
1.124	30
0.566	35
0.051	50
0.002	75
0.002	100

Re-Calculate Now



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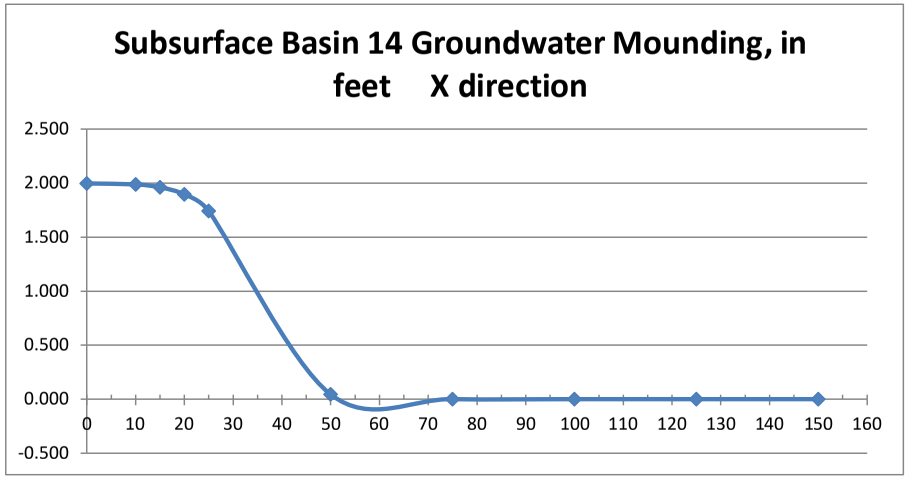
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
33.000	x	1/2 length of basin (x direction, in feet)
6.000	y	1/2 width of basin (y direction, in feet)
12.73	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
11.998	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.998	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.998	0
1.987	10
1.961	15
1.895	20
1.741	25
0.044	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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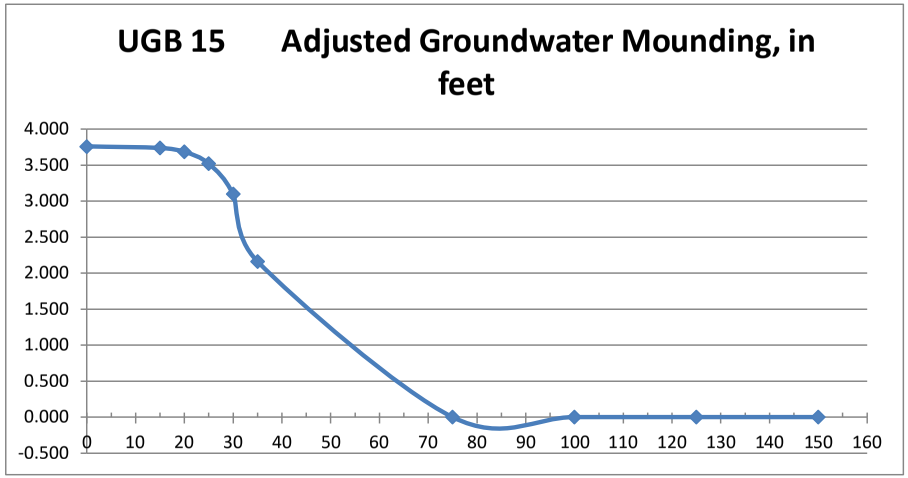
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
0.59	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
36.000	x	1/2 length of basin (x direction, in feet)
52.000	y	1/2 width of basin (y direction, in feet)
13.53	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.758	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.758	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.758	0
3.739	15
3.685	20
3.520	25
3.099	30
2.163	35
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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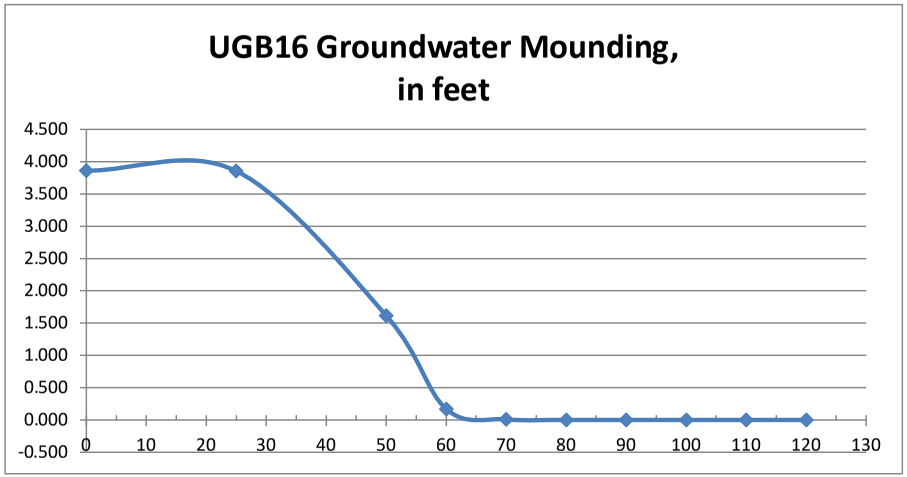
Input Values

0.59	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
0.59	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
49.000	x	1/2 length of basin (x direction, in feet)
52.000	y	1/2 width of basin (y direction, in feet)
11.77	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.858	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.858	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.858	0
3.853	25
1.616	50
0.166	60
0.008	70
0.001	80
0.001	90
0.001	100
0.001	110
0.001	120

Re-Calculate Now



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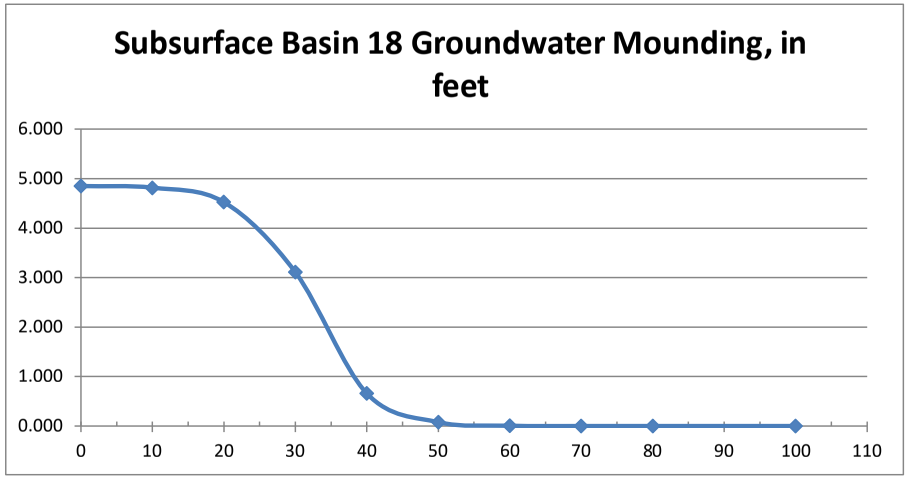
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
32.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
11.40	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

14.851	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.851	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.851	0
4.814	10
4.525	20
3.109	30
0.663	40
0.080	50
0.007	60
0.002	70
0.002	80
0.002	100

Re-Calculate Now



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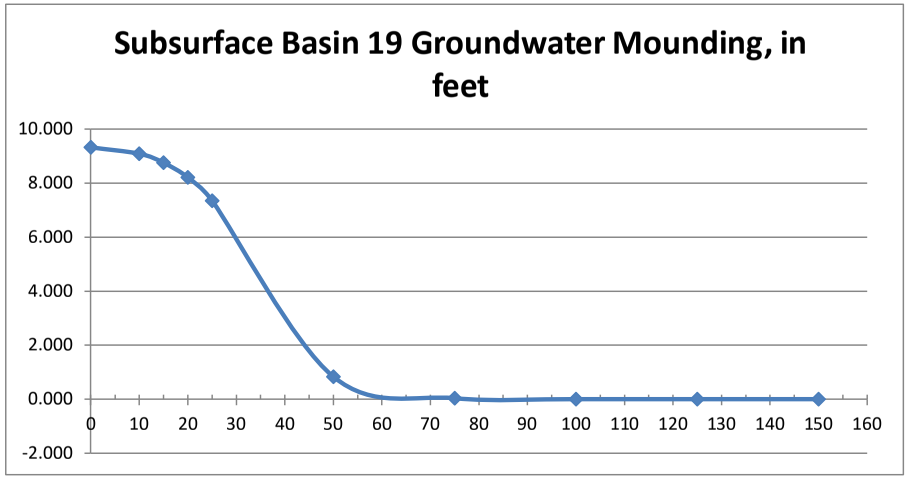
Input Values

2.30	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.30	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
32.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
14.82	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

19.320	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
9.320	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
9.320	0
9.085	10
8.754	15
8.211	20
7.348	25
0.833	50
0.031	75
0.007	100
0.006	125
0.006	150

Re-Calculate Now



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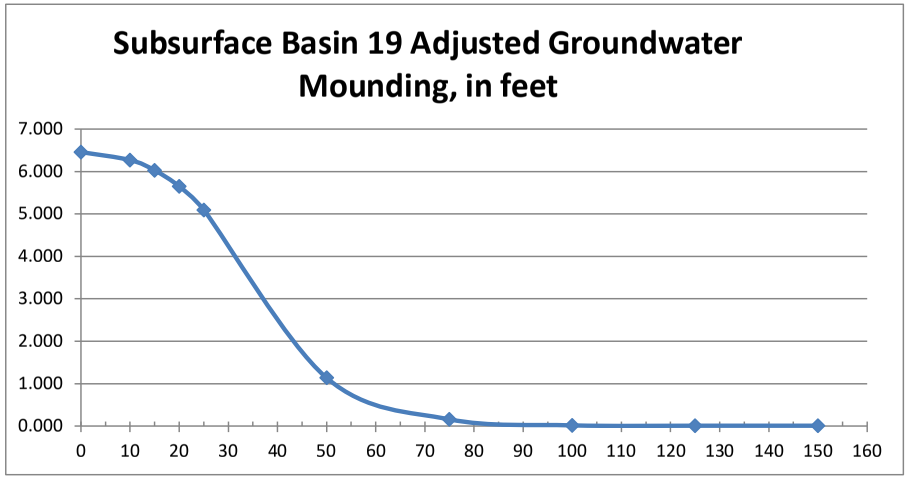
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.30	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
32.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
34.09	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.454	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.454	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.454	0
6.272	10
6.028	15
5.652	20
5.094	25
1.143	50
0.157	75
0.019	100
0.007	125
0.006	150

Re-Calculate Now



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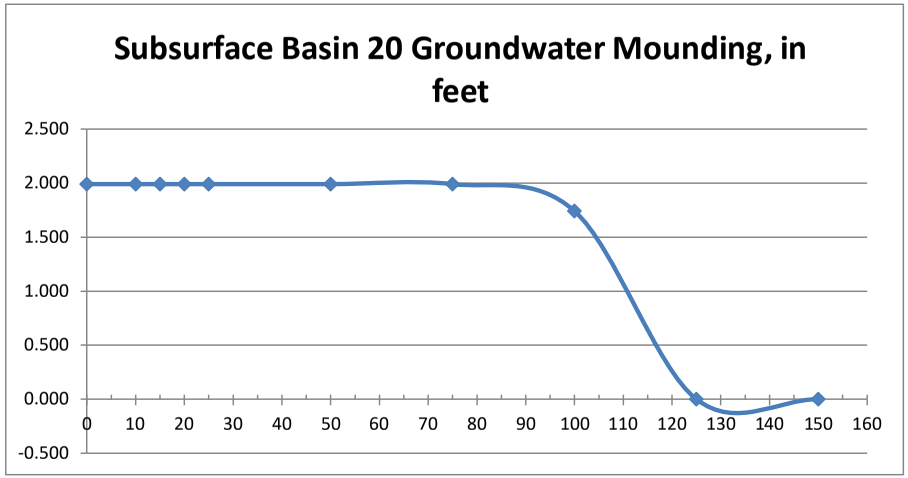
Input Values

2.30	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.30	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
105.000	x	1/2 length of basin (x direction, in feet)
18.000	y	1/2 width of basin (y direction, in feet)
1.56	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.991	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.991	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.991	0
1.991	10
1.991	15
1.991	20
1.991	25
1.991	50
1.991	75
1.741	100
0.001	125
0.001	150

Re-Calculate Now



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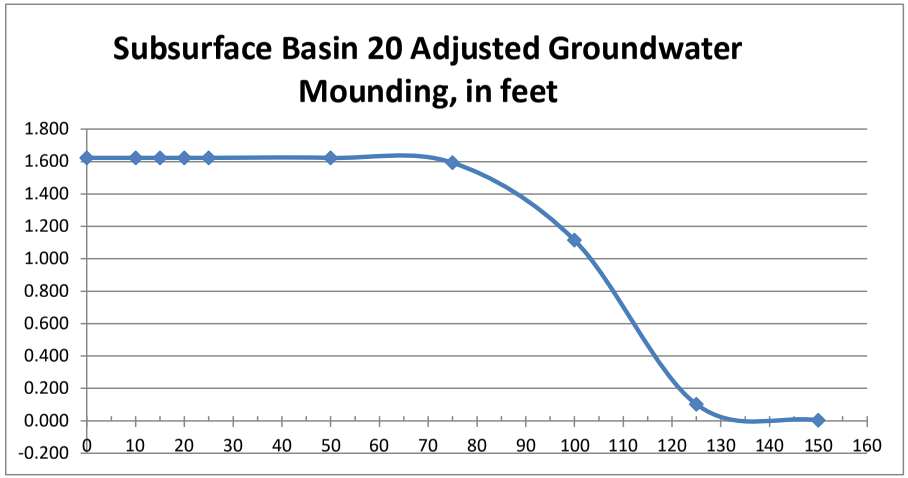
Input Values

0.25	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.30	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
105.000	x	1/2 length of basin (x direction, in feet)
18.000	y	1/2 width of basin (y direction, in feet)
14.35	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
11.623	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.623	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.623	0
1.623	10
1.623	15
1.623	20
1.623	25
1.622	50
1.592	75
1.114	100
0.102	125
0.003	150

Re-Calculate Now



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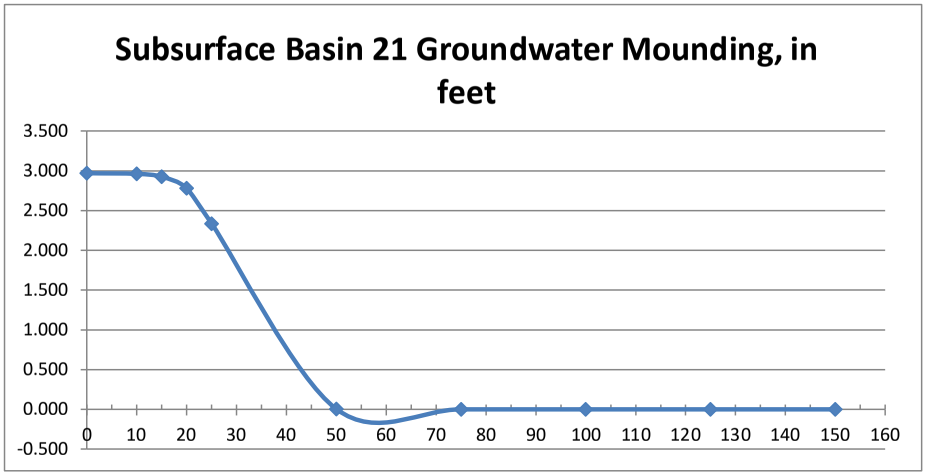
Input Values

2.30	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.30	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
29.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
2.61	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.971	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.971	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.971	0
2.962	10
2.925	15
2.780	20
2.336	25
0.004	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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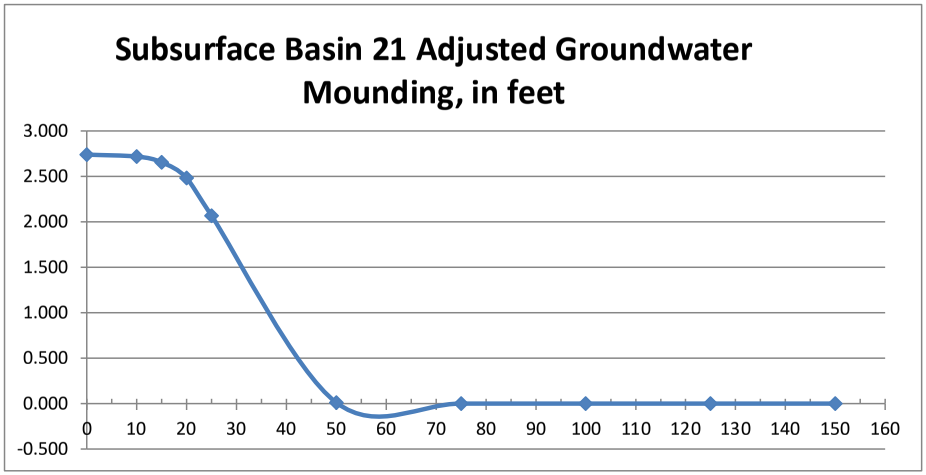
Input Values

1.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.30	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
29.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
4.00	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.742	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.742	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.742	0
2.719	10
2.656	15
2.484	20
2.066	25
0.012	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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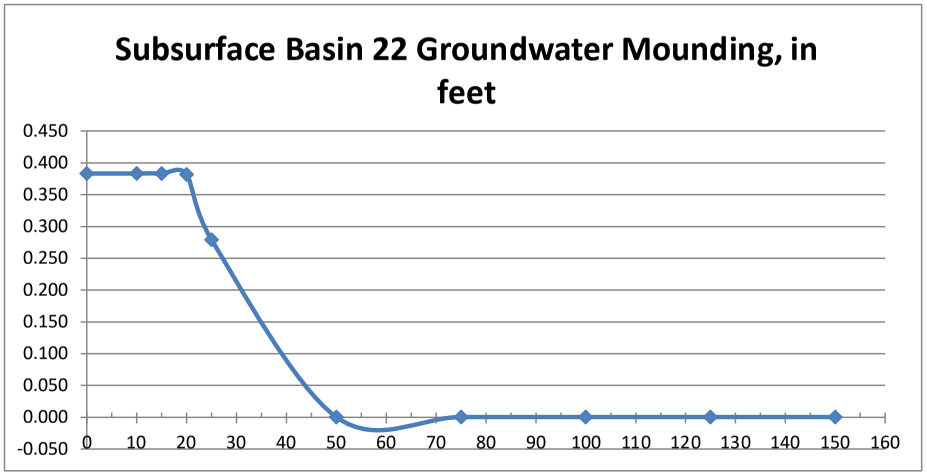
Input Values

2.30	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.30	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
26.000	x	1/2 length of basin (x direction, in feet)
109.000	y	1/2 width of basin (y direction, in feet)
0.30	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.383	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.383	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.383	0
0.383	10
0.383	15
0.382	20
0.279	25
0.000	50
0.000	75
0.000	100
0.000	125
0.000	150

Re-Calculate Now



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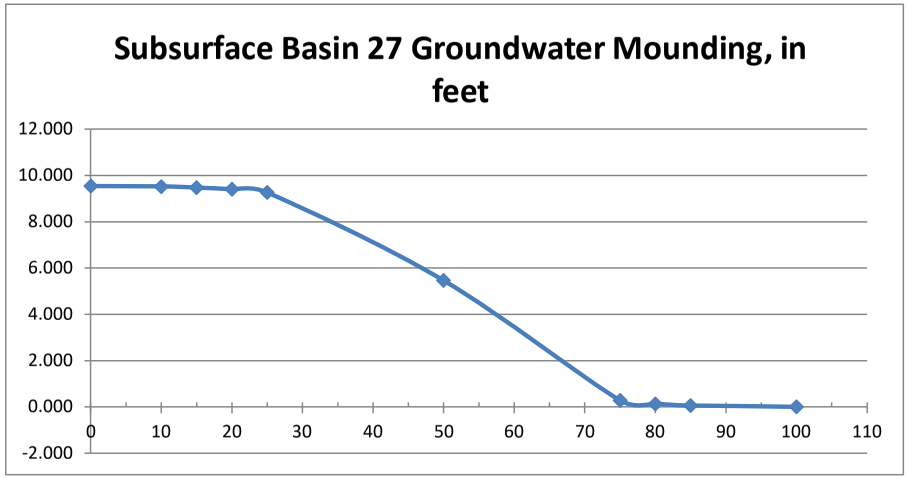
Input Values

3.00	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
3.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
51.000	x	1/2 length of basin (x direction, in feet)
12.000	y	1/2 width of basin (y direction, in feet)
9.10	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

19.546	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
9.546	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
9.546	0
9.520	10
9.477	15
9.399	20
9.262	25
5.468	50
0.285	75
0.135	80
0.062	85
0.008	100

Re-Calculate Now



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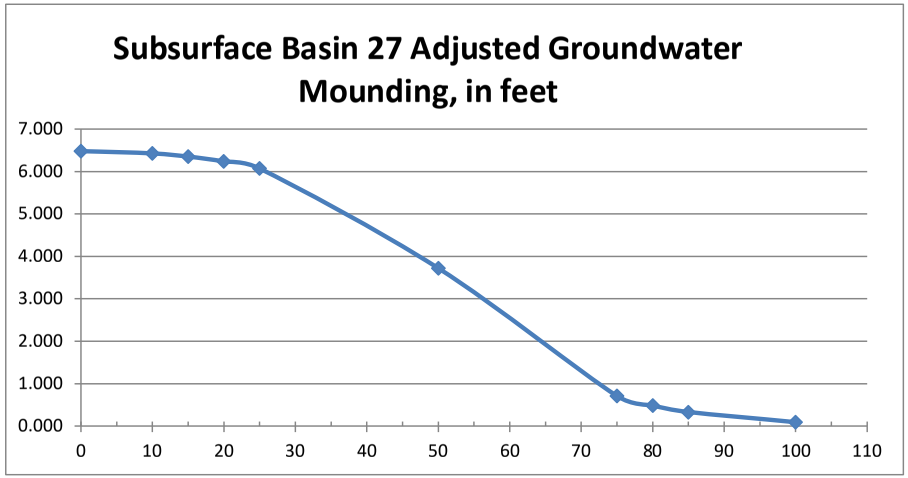
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
3.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
51.000	x	1/2 length of basin (x direction, in feet)
12.000	y	1/2 width of basin (y direction, in feet)
27.29	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.483	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.483	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.483	0
6.426	10
6.350	15
6.236	20
6.074	25
3.720	50
0.707	75
0.486	80
0.329	85
0.094	100

Re-Calculate Now



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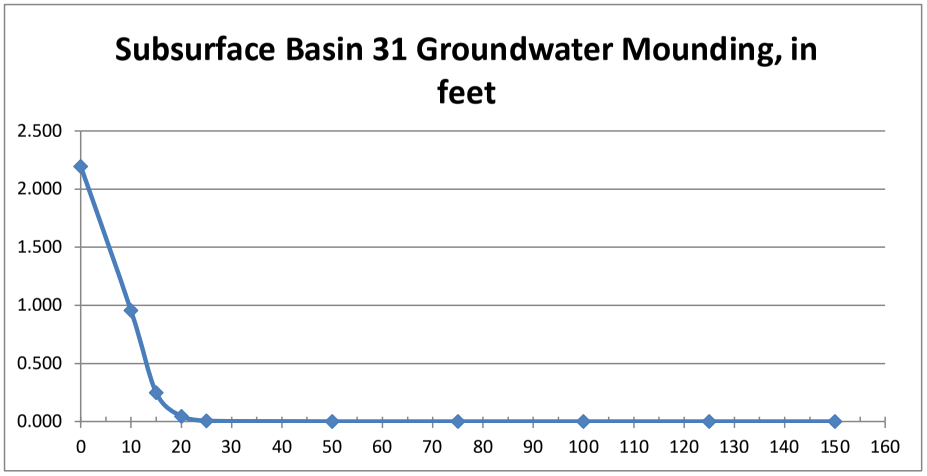
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
9.000	x	1/2 length of basin (x direction, in feet)
58.000	y	1/2 width of basin (y direction, in feet)
4.34	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.197	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.197	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.197	0
0.957	10
0.247	15
0.045	20
0.006	25
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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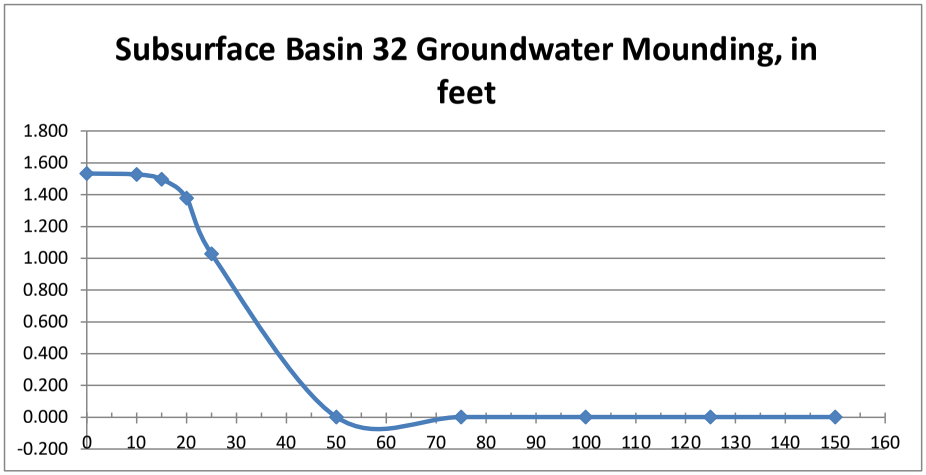
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
27.000	x	1/2 length of basin (x direction, in feet)
109.000	y	1/2 width of basin (y direction, in feet)
5.52	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.533	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.533	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.533	0
1.527	10
1.496	15
1.378	20
1.027	25
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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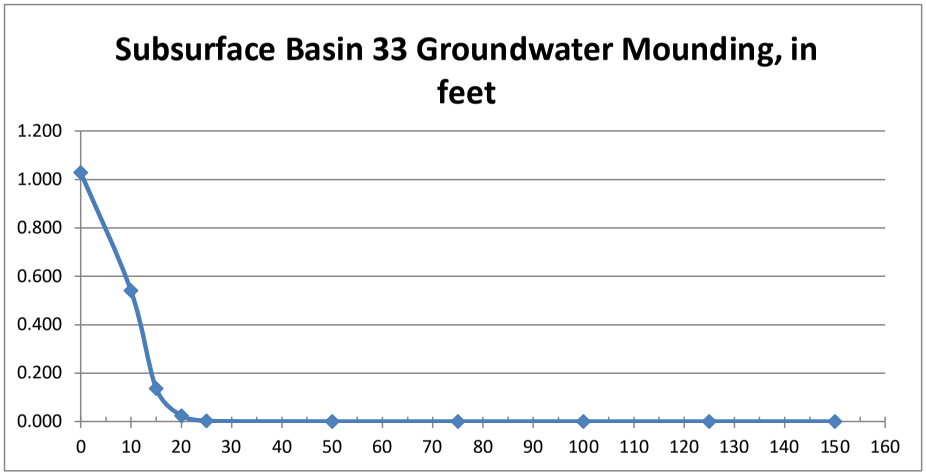
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
54.000	y	1/2 width of basin (y direction, in feet)
3.89	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.029	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.029	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.029	0
0.540	10
0.137	15
0.024	20
0.003	25
0.000	50
0.000	75
0.000	100
0.000	125
0.000	150

Re-Calculate Now



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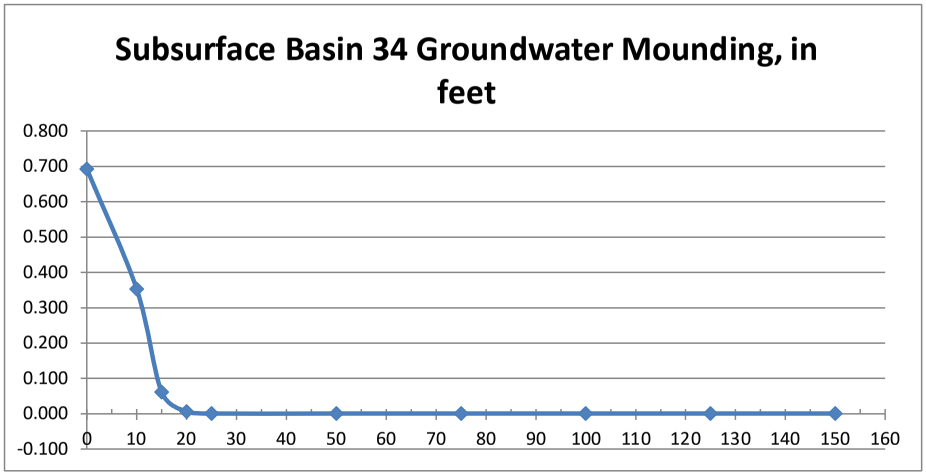
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
90.000	y	1/2 width of basin (y direction, in feet)
2.54	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.693	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.693	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.693	0
0.353	10
0.061	15
0.006	20
0.001	25
0.000	50
0.000	75
0.000	100
0.000	125
0.000	150

Re-Calculate Now



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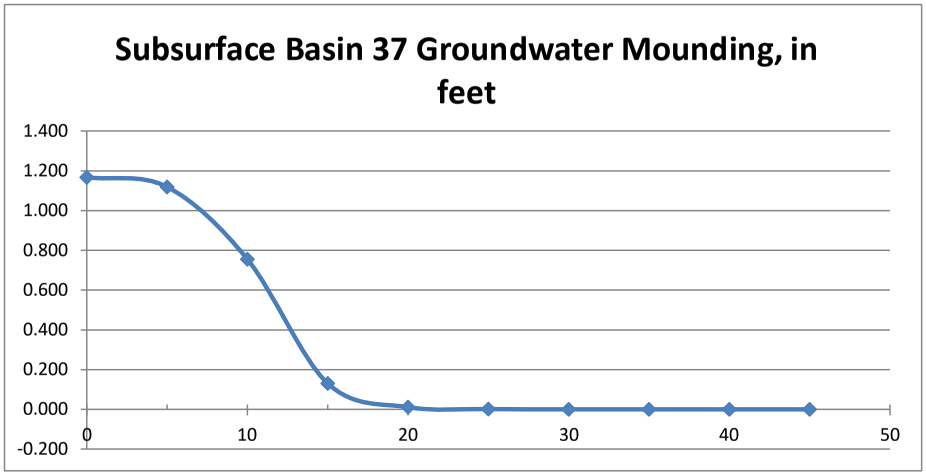
Input Values

7.83	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
7.83	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
11.000	x	1/2 length of basin (x direction, in feet)
51.000	y	1/2 width of basin (y direction, in feet)
0.27	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.167	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.167	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.167	0
1.119	5
0.754	10
0.130	15
0.011	20
0.001	25
0.000	30
0.000	35
0.000	40
0.000	45

Re-Calculate Now



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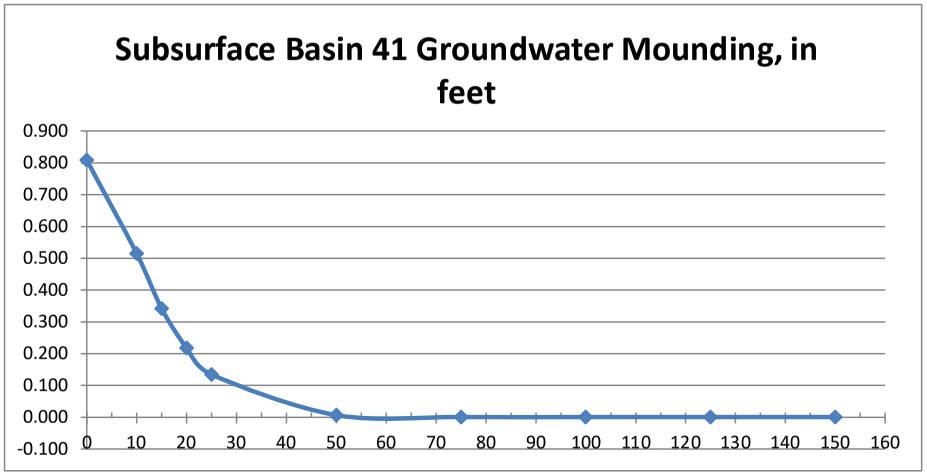
Input Values

0.10	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
7.000	x	1/2 length of basin (x direction, in feet)
21.000	y	1/2 width of basin (y direction, in feet)
38.00	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.809	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.809	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.809	0
0.515	10
0.342	15
0.218	20
0.134	25
0.007	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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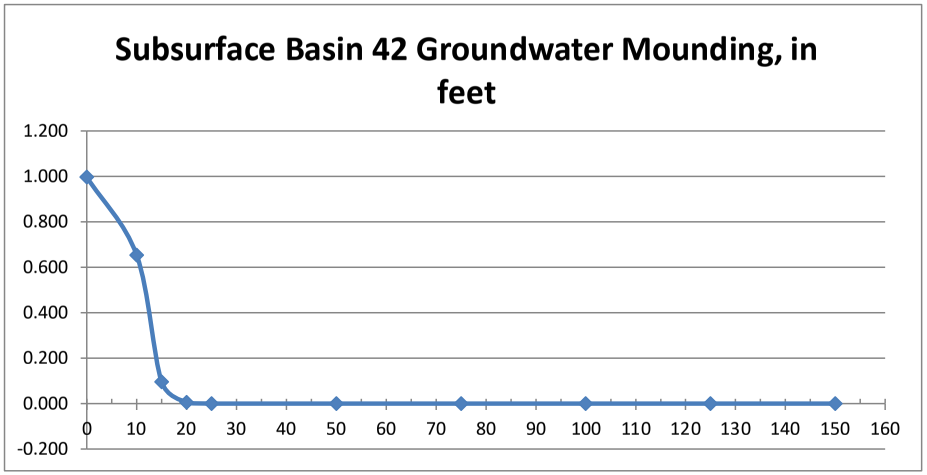
Input Values

2.31	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.31	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
11.000	x	1/2 length of basin (x direction, in feet)
47.000	y	1/2 width of basin (y direction, in feet)
0.78	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.998	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.998	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.998	0
0.653	10
0.096	15
0.006	20
0.000	25
0.000	50
0.000	75
0.000	100
0.000	125
0.000	150

Re-Calculate Now



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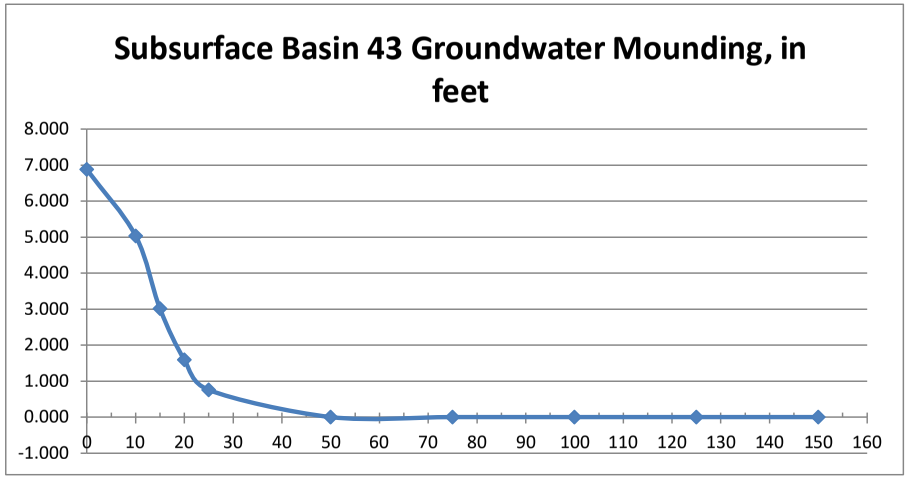
Input Values

2.31	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.31	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
11.000	x	1/2 length of basin (x direction, in feet)
51.000	y	1/2 width of basin (y direction, in feet)
7.62	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.879	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.879	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.879	0
5.036	10
3.015	15
1.595	20
0.758	25
0.008	50
0.003	75
0.003	100
0.003	125
0.003	150

Re-Calculate Now



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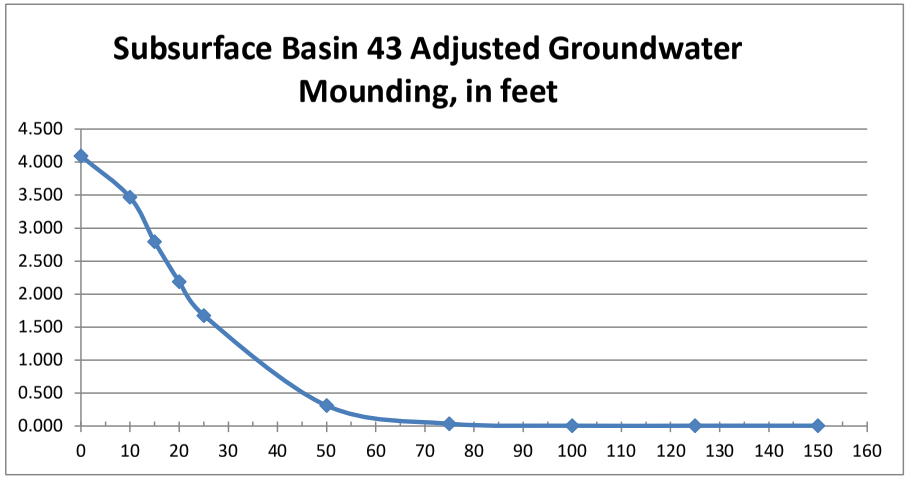
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.31	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
11.000	x	1/2 length of basin (x direction, in feet)
51.000	y	1/2 width of basin (y direction, in feet)
35.22	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

14.093	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.093	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.093	0
3.468	10
2.792	15
2.189	20
1.676	25
0.312	50
0.036	75
0.005	100
0.003	125
0.003	150

Re-Calculate Now



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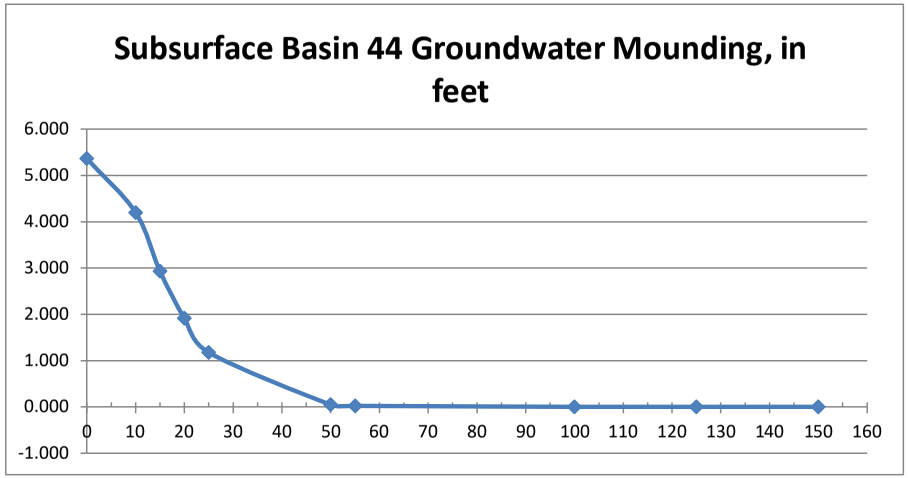
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
11.000	x	1/2 length of basin (x direction, in feet)
55.000	y	1/2 width of basin (y direction, in feet)
32.79	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
15.366	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
5.366	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
5.366	0
4.199	10
2.930	15
1.913	20
1.176	25
0.049	50
0.023	55
0.003	100
0.003	125
0.003	150

Re-Calculate Now



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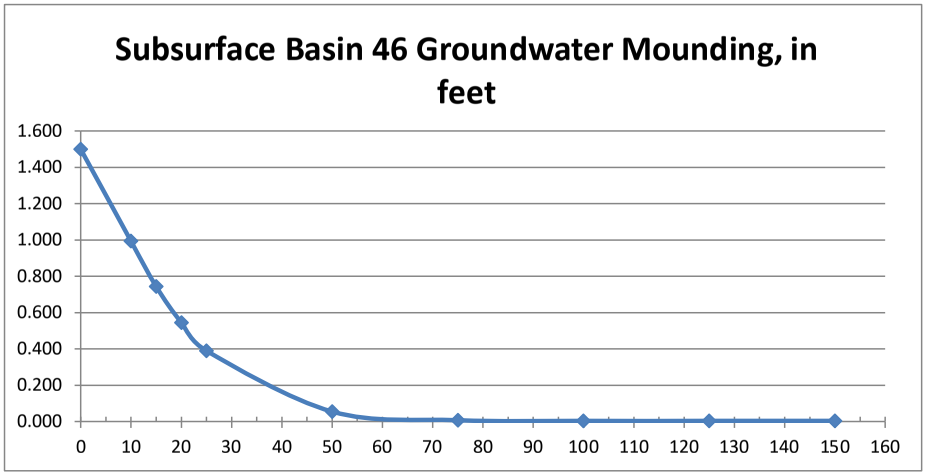
Input Values

0.22	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
4.000	x	1/2 length of basin (x direction, in feet)
26.000	y	1/2 width of basin (y direction, in feet)
69.24	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
11.501	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.501	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.501	0
0.994	10
0.743	15
0.544	20
0.390	25
0.054	50
0.006	75
0.003	100
0.003	125
0.003	150

Re-Calculate Now



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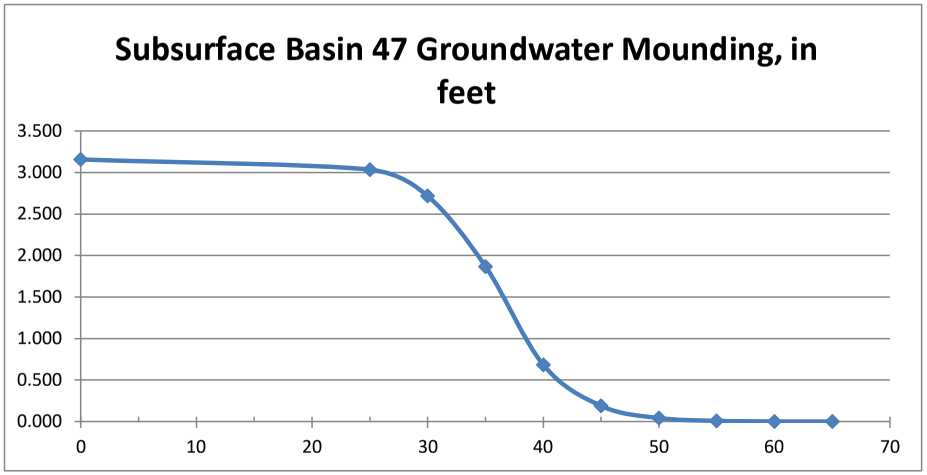
Input Values

1.64	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.64	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
36.000	x	1/2 length of basin (x direction, in feet)
13.000	y	1/2 width of basin (y direction, in feet)
3.64	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.158	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.158	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.158	0
3.034	25
2.717	30
1.868	35
0.683	40
0.188	45
0.041	50
0.007	55
0.002	60
0.001	65

Re-Calculate Now



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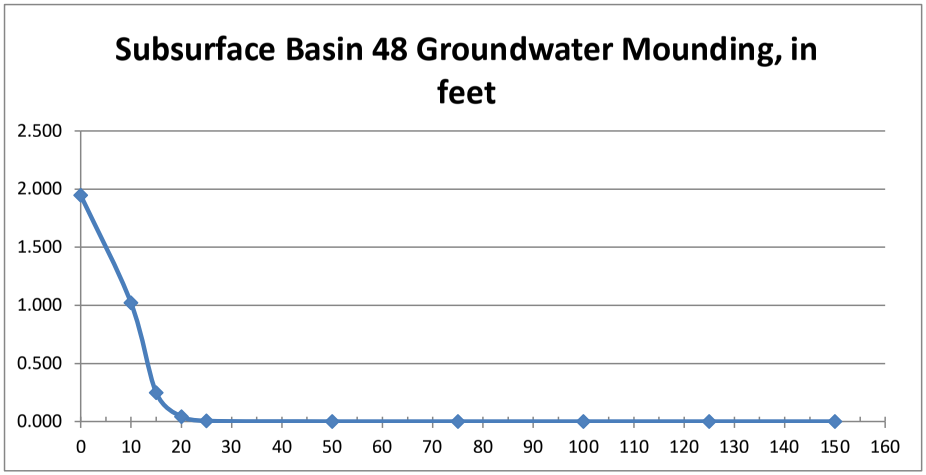
Input Values

7.83	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
7.83	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
18.000	y	1/2 width of basin (y direction, in feet)
0.47	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.947	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.947	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.947	0
1.021	10
0.248	15
0.040	20
0.005	25
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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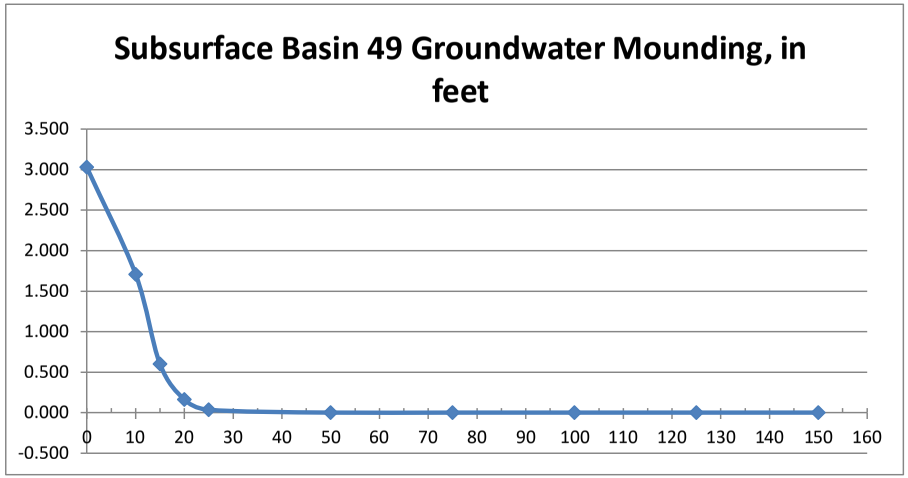
Input Values

1.54	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.54	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
18.000	y	1/2 width of basin (y direction, in feet)
4.04	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.030	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.030	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.030	0
1.705	10
0.600	15
0.165	20
0.036	25
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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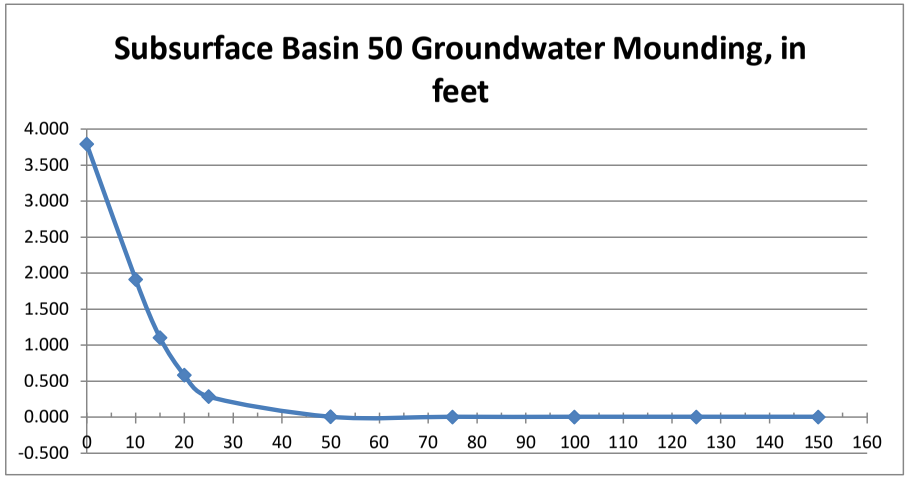
Input Values

1.54	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.54	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
4.000	x	1/2 length of basin (x direction, in feet)
26.000	y	1/2 width of basin (y direction, in feet)
14.00	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
13.792	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.792	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.792	0
1.911	10
1.105	15
0.586	20
0.286	25
0.006	50
0.004	75
0.004	100
0.004	125
0.004	150

Re-Calculate Now



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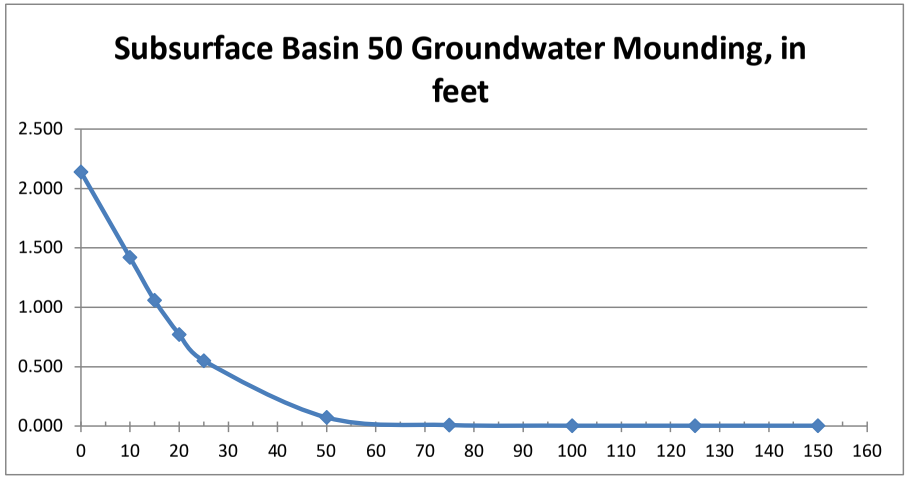
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.54	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
4.000	x	1/2 length of basin (x direction, in feet)
26.000	y	1/2 width of basin (y direction, in feet)
43.10	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
12.140	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.140	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.140	0
1.419	10
1.059	15
0.772	20
0.549	25
0.072	50
0.008	75
0.004	100
0.004	125
0.004	150

Re-Calculate Now

Adjusted Model



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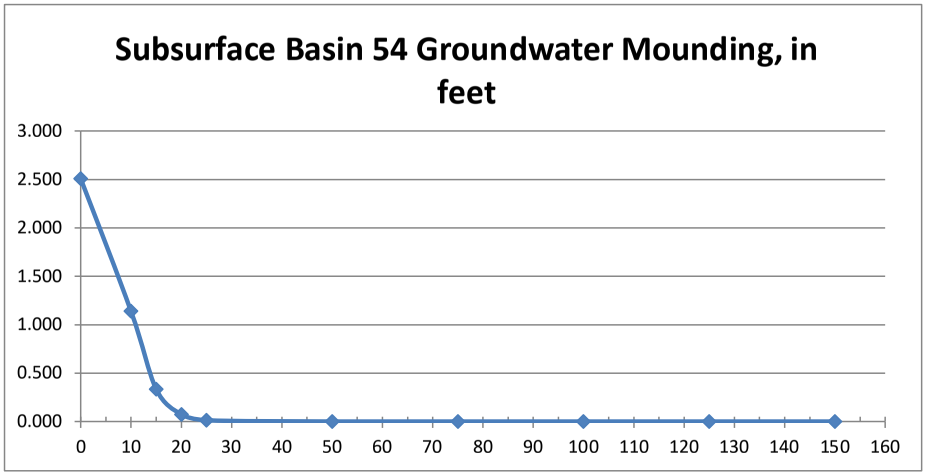
Input Values

7.83	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
7.83	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
9.000	x	1/2 length of basin (x direction, in feet)
59.000	y	1/2 width of basin (y direction, in feet)
0.65	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.508	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.508	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.508	0
1.142	10
0.334	15
0.072	20
0.012	25
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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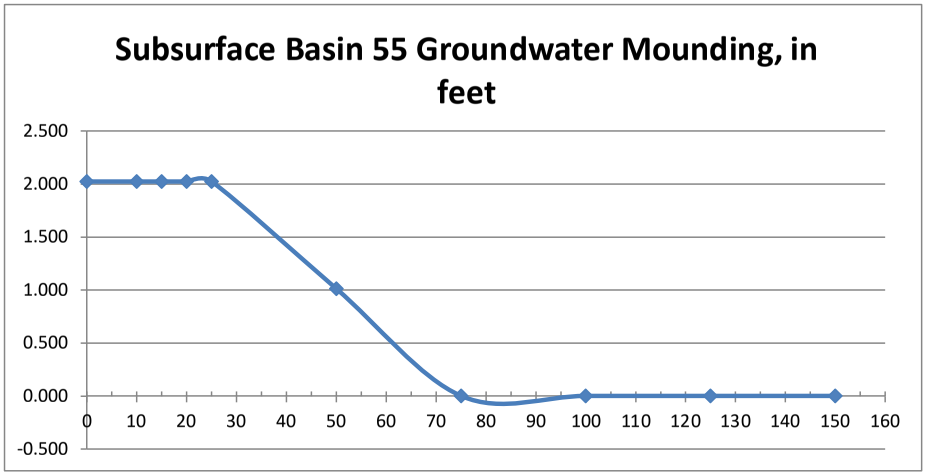
Input Values

0.75	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
0.75	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
50.000	x	1/2 length of basin (x direction, in feet)
65.000	y	1/2 width of basin (y direction, in feet)
4.86	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.025	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.025	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.025	0
2.025	10
2.025	15
2.025	20
2.025	25
1.013	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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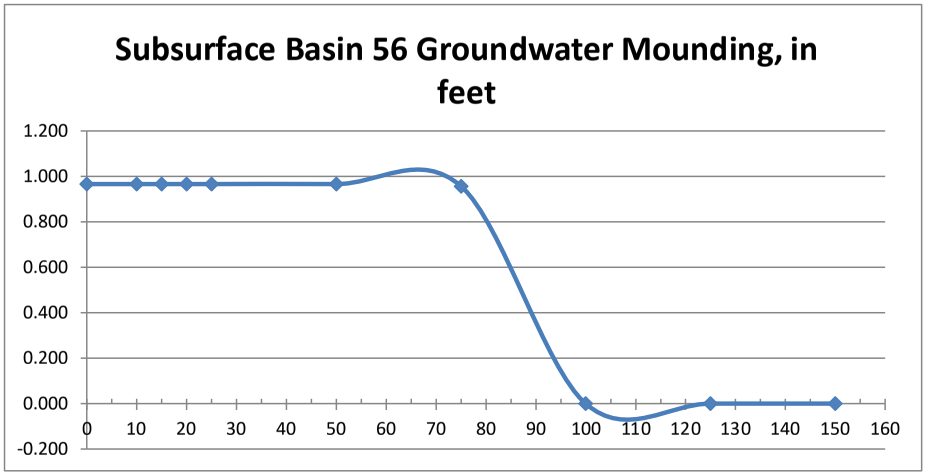
Input Values

0.75	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
0.75	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
83.000	x	1/2 length of basin (x direction, in feet)
64.000	y	1/2 width of basin (y direction, in feet)
2.32	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.967	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.967	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.967	0
0.967	10
0.967	15
0.967	20
0.967	25
0.967	50
0.956	75
0.000	100
0.000	125
0.000	150

Re-Calculate Now



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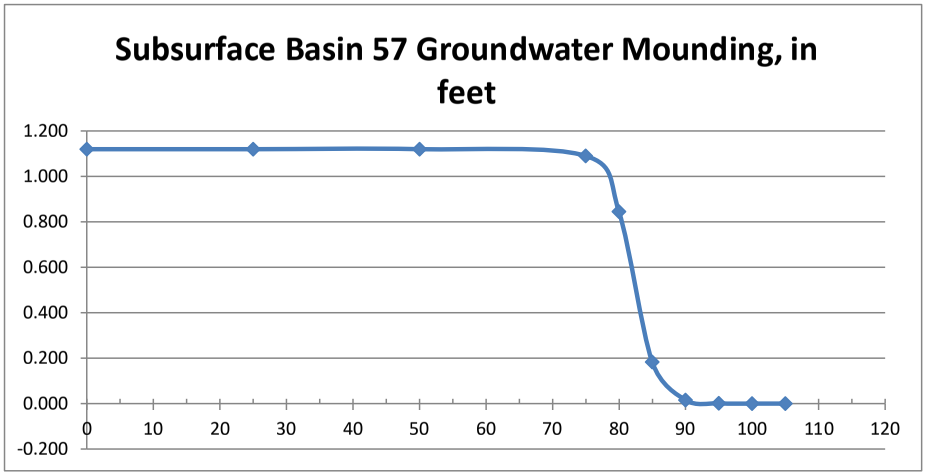
Input Values

0.75	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
0.75	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
82.000	x	1/2 length of basin (x direction, in feet)
25.000	y	1/2 width of basin (y direction, in feet)
2.69	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.121	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.121	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.121	0
1.121	25
1.121	50
1.091	75
0.845	80
0.183	85
0.016	90
0.001	95
0.000	100
0.000	105

Re-Calculate Now



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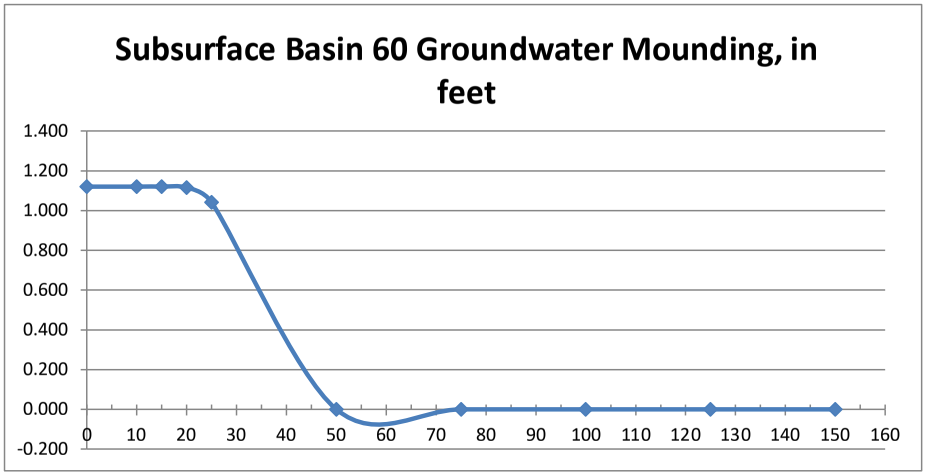
Input Values

0.75	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
0.75	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
30.000	x	1/2 length of basin (x direction, in feet)
95.000	y	1/2 width of basin (y direction, in feet)
2.69	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.121	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.121	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.121	0
1.121	10
1.121	15
1.115	20
1.042	25
0.000	50
0.000	75
0.000	100
0.000	125
0.000	150

Re-Calculate Now



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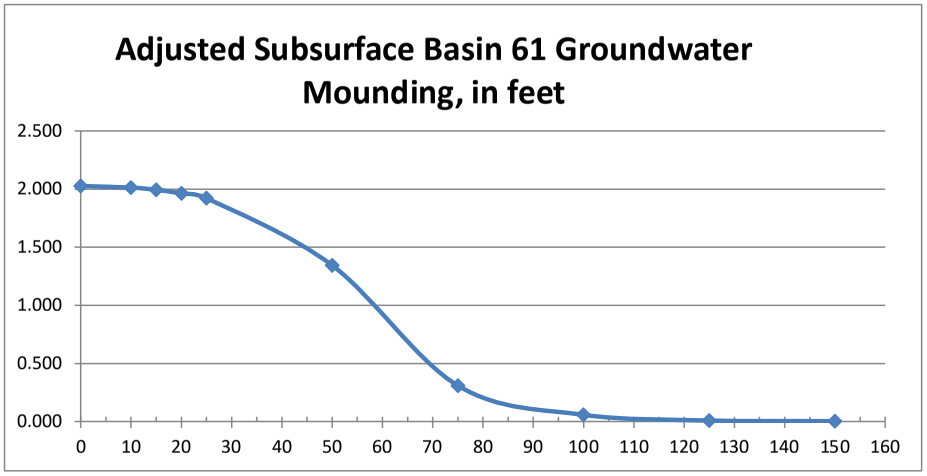
Input Values

0.26	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.50	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
55.000	x	1/2 length of basin (x direction, in feet)
9.000	y	1/2 width of basin (y direction, in feet)
42.51	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.028	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.028	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.028	0
2.013	10
1.994	15
1.964	20
1.922	25
1.344	50
0.308	75
0.058	100
0.009	125
0.003	150

Re-Calculate Now



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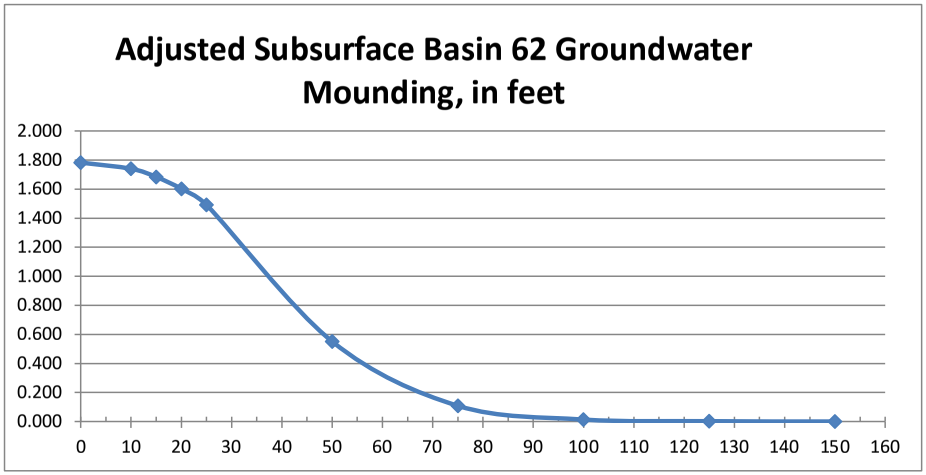
Input Values

0.10	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.50	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
39.000	x	1/2 length of basin (x direction, in feet)
105.000	y	1/2 width of basin (y direction, in feet)
35.60	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.783	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.783	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.783	0
1.740	10
1.684	15
1.603	20
1.492	25
0.551	50
0.109	75
0.014	100
0.002	125
0.001	150

Re-Calculate Now



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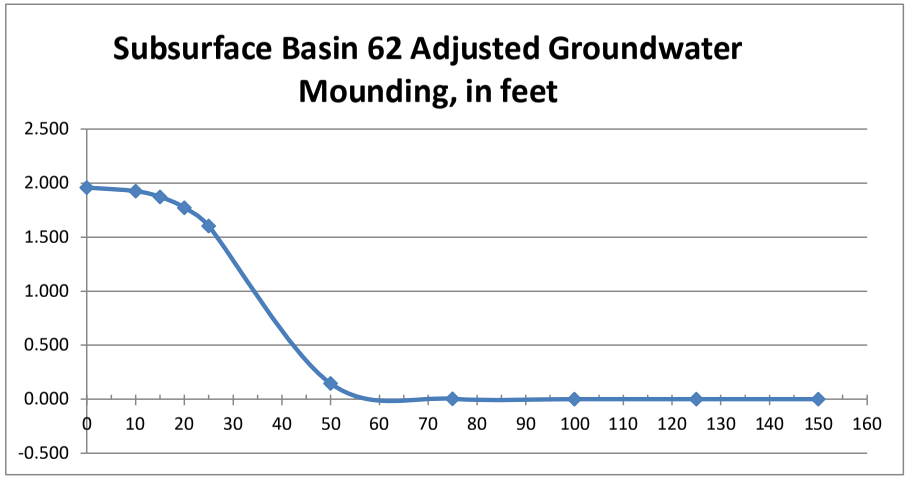
Input Values

0.40	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.50	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
34.000	x	1/2 length of basin (x direction, in feet)
106.000	y	1/2 width of basin (y direction, in feet)
8.90	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
11.959	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.959	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.959	0
1.926	10
1.873	15
1.773	20
1.601	25
0.145	50
0.002	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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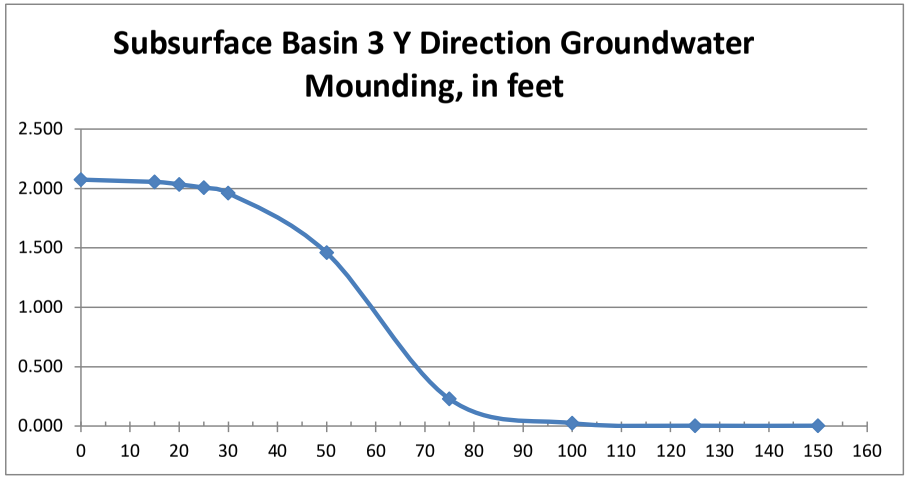
Input Values

1.50	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
9.09	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
56.000	x	1/2 length of basin (x direction, in feet)
7.500	y	1/2 width of basin (y direction, in feet)
6.89	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.074	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.074	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.074	0
2.054	15
2.035	20
2.006	25
1.962	30
1.461	50
0.230	75
0.024	100
0.003	125
0.002	150

Re-Calculate Now



Y DIRECTION

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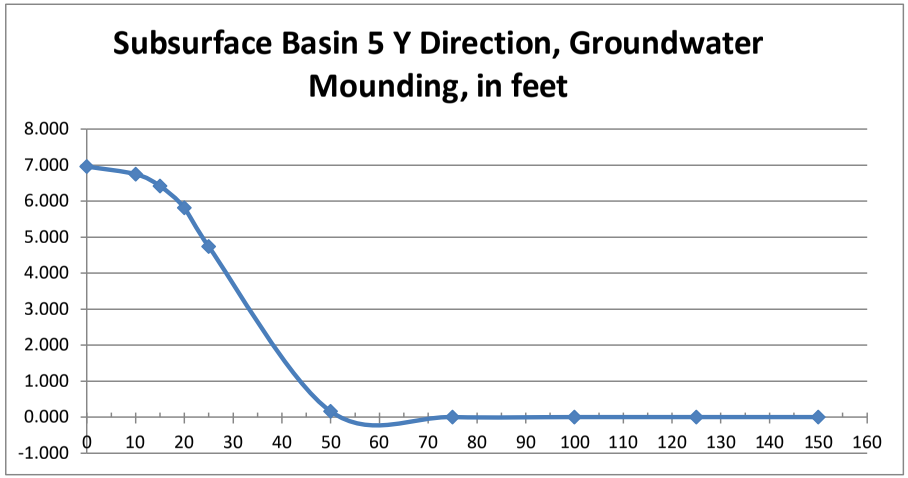
Input Values

1.94	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.94	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
28.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
10.43	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.962	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.962	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.962	0
6.748	10
6.415	15
5.811	20
4.739	25
0.163	50
0.004	75
0.004	100
0.004	125
0.004	150

Re-Calculate Now



Y DIRECTION

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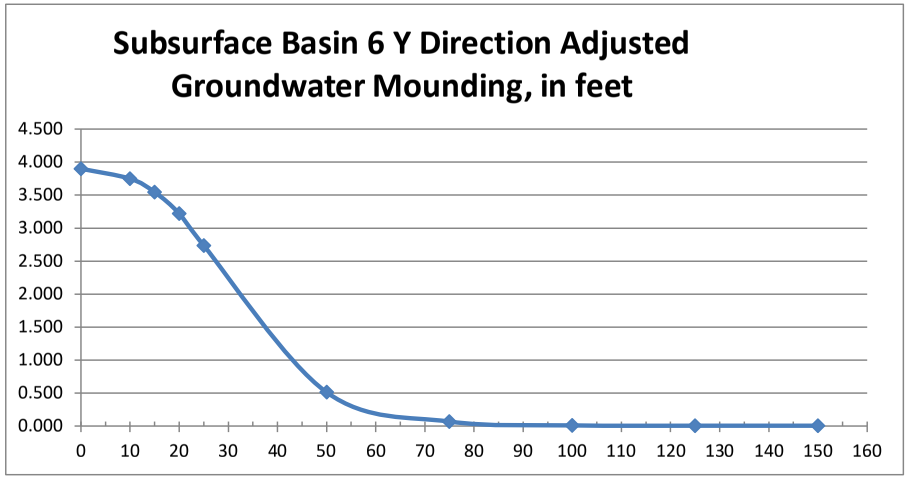
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.94	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
28.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
41.10	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.900	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.900	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.900	0
3.749	10
3.543	15
3.222	20
2.737	25
0.512	50
0.068	75
0.009	100
0.004	125
0.004	150

Re-Calculate Now



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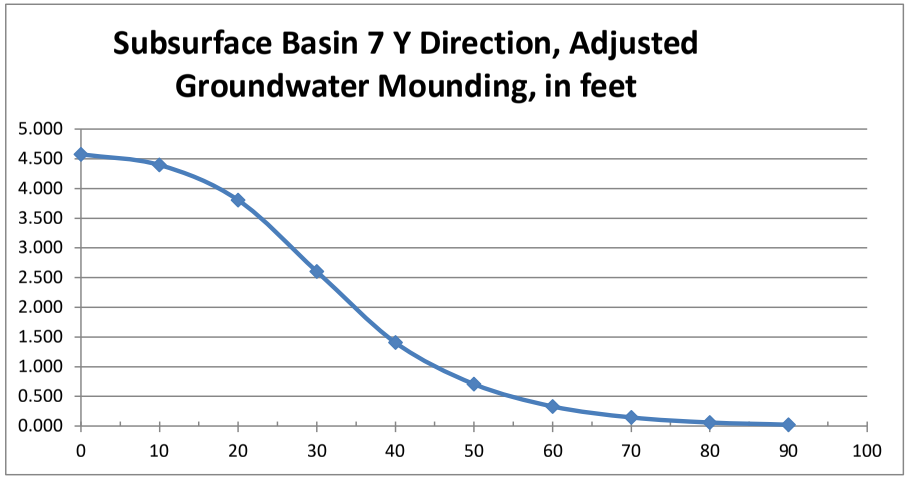
Input Values

0.26	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.33	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
29.000	x	1/2 length of basin (x direction, in feet)
19.000	y	1/2 width of basin (y direction, in feet)
58.79	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
14.572	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.572	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.572	0
4.395	10
3.805	20
2.601	30
1.408	40
0.707	50
0.331	60
0.145	70
0.060	80
0.024	90

Re-Calculate Now



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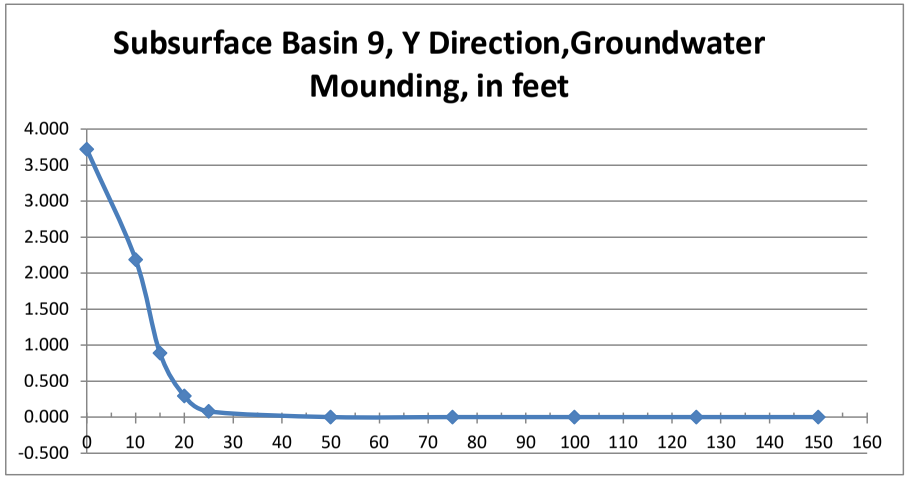
Input Values

1.33	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.33	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
29.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
5.99	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.720	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.720	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.720	0
2.188	10
0.891	15
0.296	20
0.081	25
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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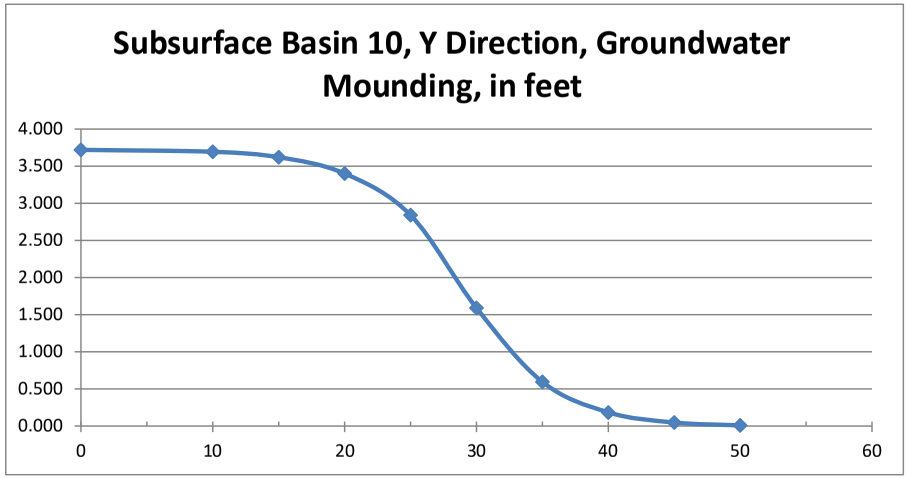
Input Values

1.33	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.33	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
29.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
5.99	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.720	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.720	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.720	0
3.695	10
3.621	15
3.401	20
2.839	25
1.591	30
0.593	35
0.183	40
0.048	45
0.011	50

Re-Calculate Now



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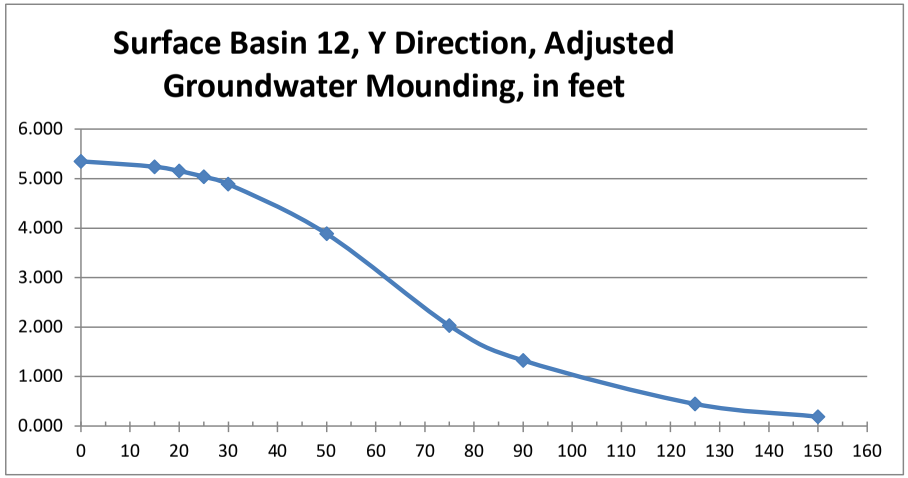
Input Values

0.65	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
9.09	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
56.000	x	1/2 length of basin (x direction, in feet)
23.000	y	1/2 width of basin (y direction, in feet)
48.98	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

15.349	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
5.349	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
5.349	0
5.240	15
5.153	20
5.038	25
4.891	30
3.889	50
2.030	75
1.323	90
0.447	125
0.191	150

Re-Calculate Now



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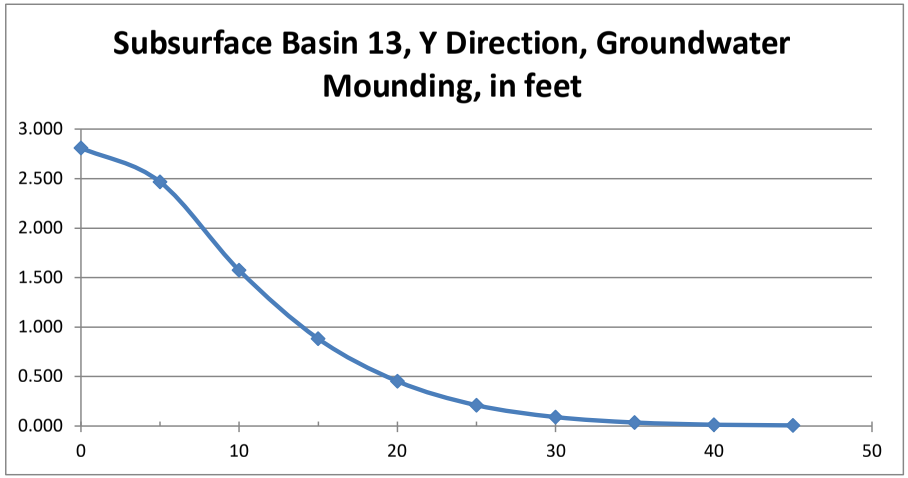
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
7.000	x	1/2 length of basin (x direction, in feet)
28.000	y	1/2 width of basin (y direction, in feet)
18.99	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.810	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.810	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.810	0
2.467	5
1.574	10
0.884	15
0.452	20
0.212	25
0.091	30
0.037	35
0.014	40
0.006	45

Re-Calculate Now



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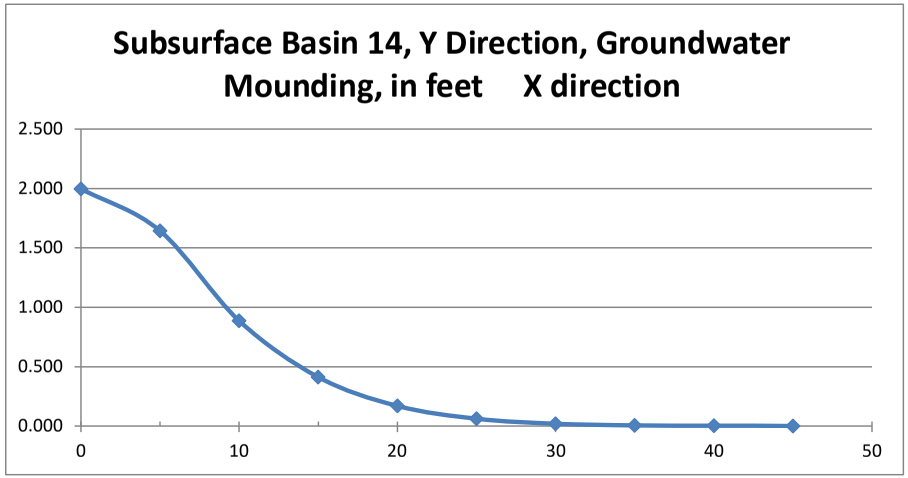
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
6.000	x	1/2 length of basin (x direction, in feet)
33.000	y	1/2 width of basin (y direction, in feet)
12.73	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
11.998	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.998	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.998	0
1.644	5
0.887	10
0.413	15
0.169	20
0.061	25
0.020	30
0.006	35
0.002	40
0.001	45

Re-Calculate Now



Y DIRECTION

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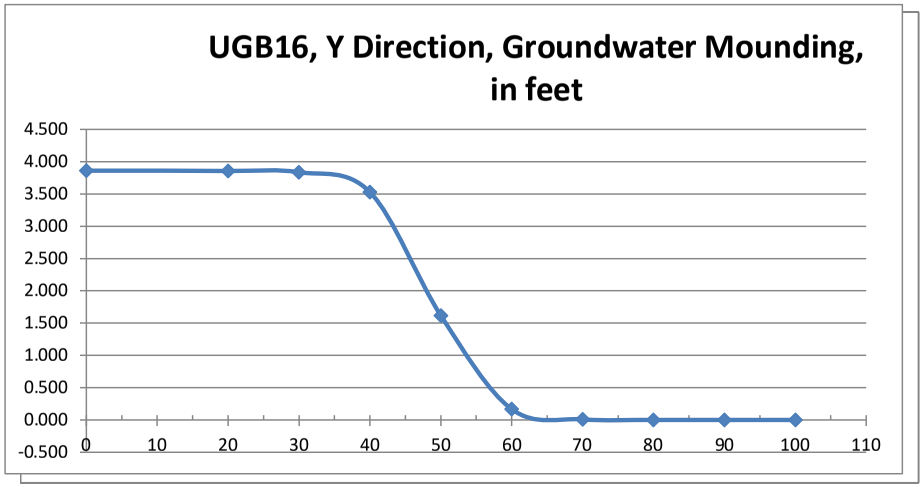
Input Values

0.59	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
0.59	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
52.000	x	1/2 length of basin (x direction, in feet)
49.000	y	1/2 width of basin (y direction, in feet)
11.77	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.858	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.858	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.858	0
3.857	20
3.834	30
3.530	40
1.616	50
0.166	60
0.008	70
0.001	80
0.001	90
0.001	100

Re-Calculate Now



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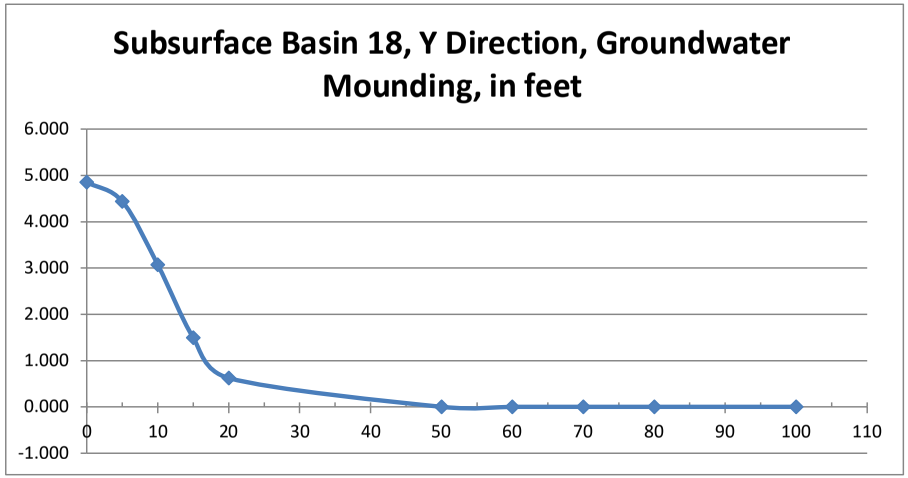
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
32.000	y	1/2 width of basin (y direction, in feet)
11.40	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

14.851	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.851	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.851	0
4.435	5
3.067	10
1.493	15
0.622	20
0.002	50
0.002	60
0.002	70
0.002	80
0.002	100

Re-Calculate Now



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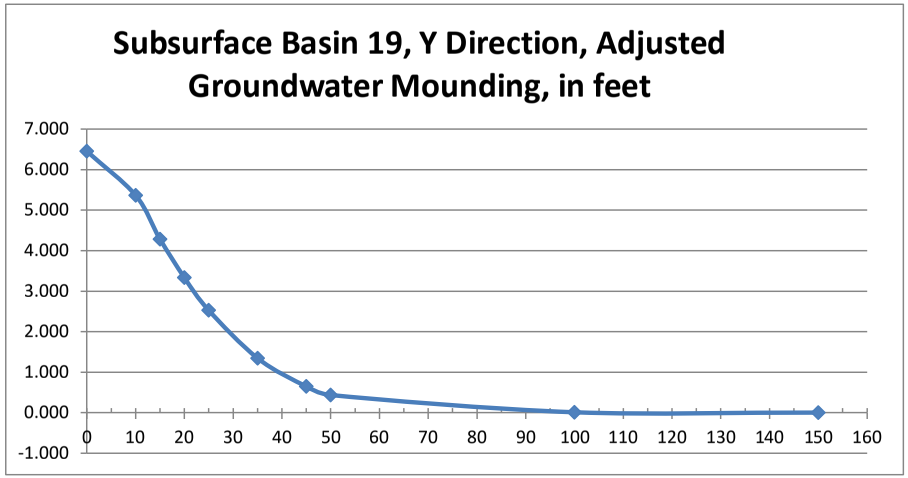
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.30	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
32.000	y	1/2 width of basin (y direction, in feet)
34.09	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.454	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.454	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.454	0
5.363	10
4.287	15
3.338	20
2.531	25
1.344	35
0.647	45
0.435	50
0.009	100
0.006	150

Re-Calculate Now



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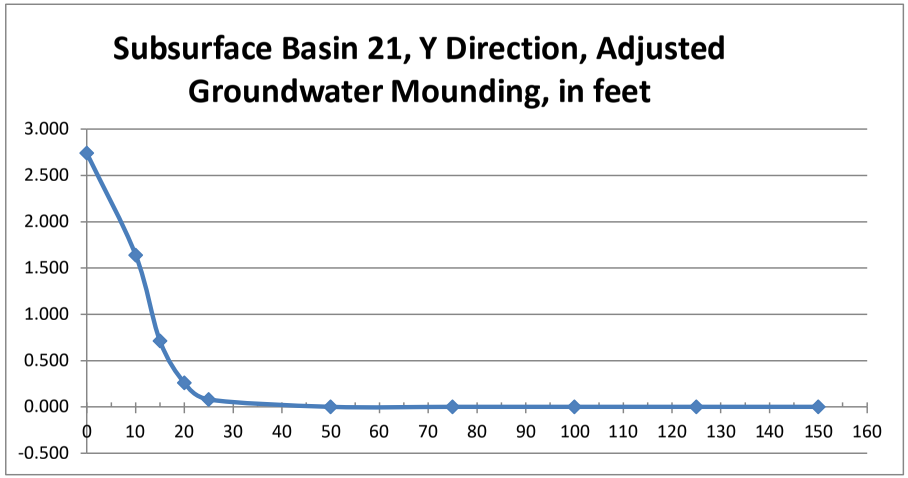
Input Values

1.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.30	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
10.000	x	1/2 length of basin (x direction, in feet)
29.000	y	1/2 width of basin (y direction, in feet)
4.00	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.742	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.742	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.742	0
1.640	10
0.713	15
0.261	20
0.081	25
0.001	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



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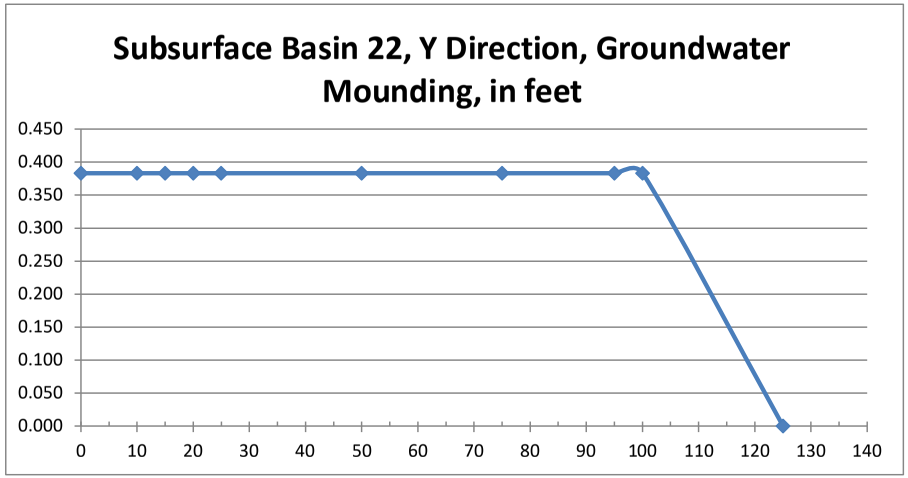
Input Values

2.30	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.30	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
109.000	x	1/2 length of basin (x direction, in feet)
26.000	y	1/2 width of basin (y direction, in feet)
0.30	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.383	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.383	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.383	0
0.383	10
0.383	15
0.383	20
0.383	25
0.383	50
0.383	75
0.383	95
0.383	100
0.000	125

Re-Calculate Now



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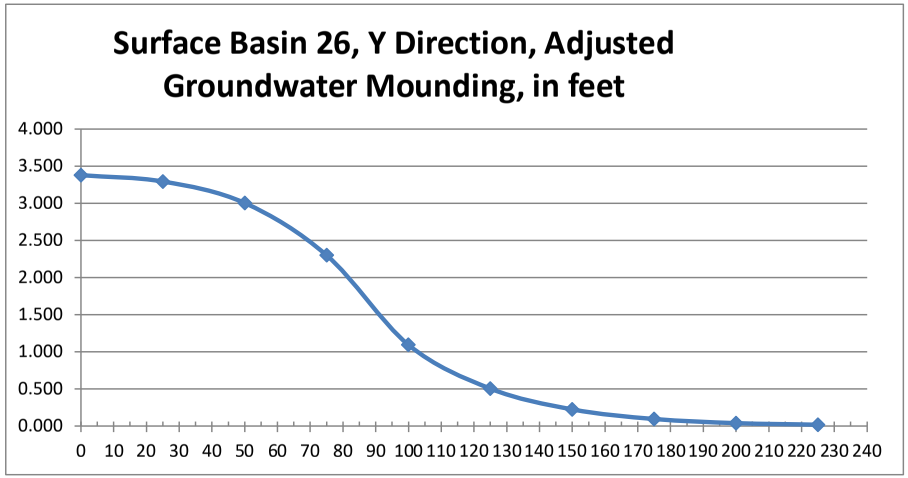
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
15.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
83.000	x	1/2 length of basin (x direction, in feet)
12.000	y	1/2 width of basin (y direction, in feet)
28.34	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.379	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.379	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.379	0
3.295	25
3.003	50
2.304	75
1.095	100
0.504	125
0.224	150
0.094	175
0.039	200
0.017	225

Re-Calculate Now



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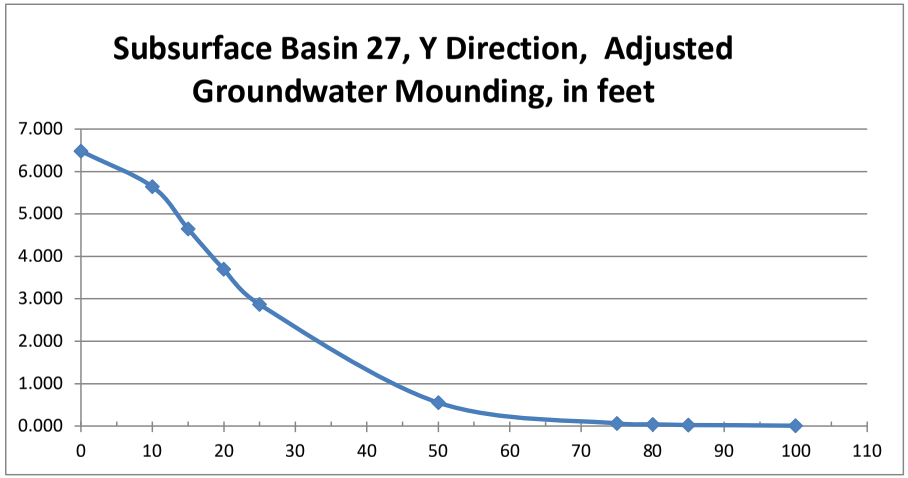
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
3.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
12.000	x	1/2 length of basin (x direction, in feet)
51.000	y	1/2 width of basin (y direction, in feet)
27.29	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

16.483	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
6.483	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
6.483	0
5.646	10
4.646	15
3.696	20
2.865	25
0.548	50
0.064	75
0.041	80
0.026	85
0.009	100

Re-Calculate Now



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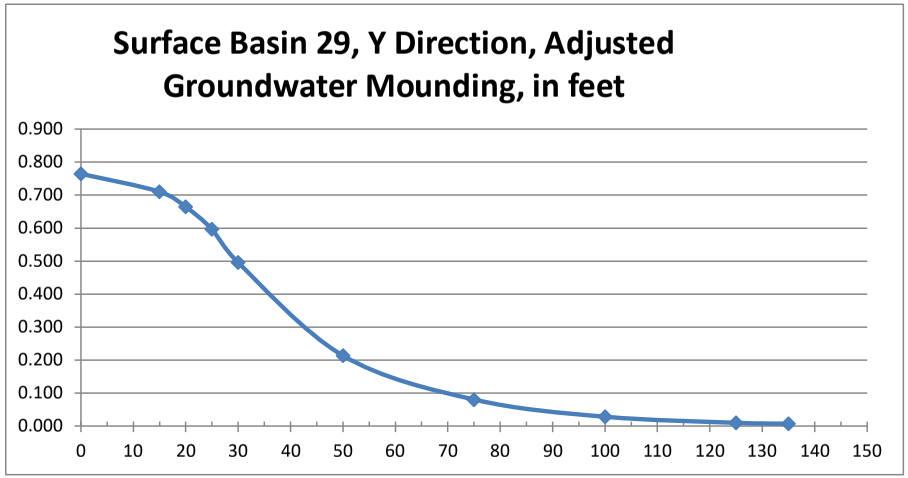
Input Values

0.67	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
15.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
30.000	x	1/2 length of basin (x direction, in feet)
6.000	y	1/2 width of basin (y direction, in feet)
17.91	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
10.764	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.764	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.764	0
0.710	15
0.664	20
0.596	25
0.496	30
0.213	50
0.080	75
0.029	100
0.010	125
0.007	135

Re-Calculate Now



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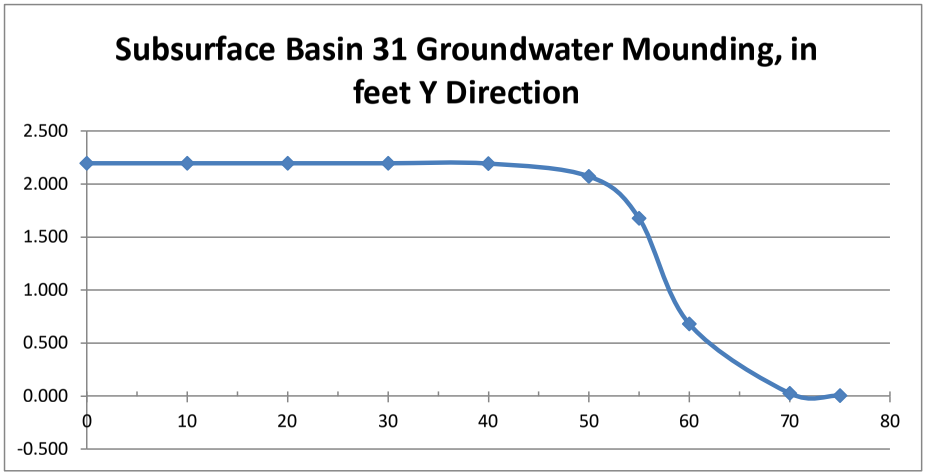
Input Values

1.00	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
58.000	x	1/2 length of basin (x direction, in feet)
9.000	y	1/2 width of basin (y direction, in feet)
4.34	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.197	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.197	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.197	0
2.197	10
2.197	20
2.197	30
2.194	40
2.073	50
1.676	55
0.680	60
0.027	70
0.004	75

Re-Calculate Now



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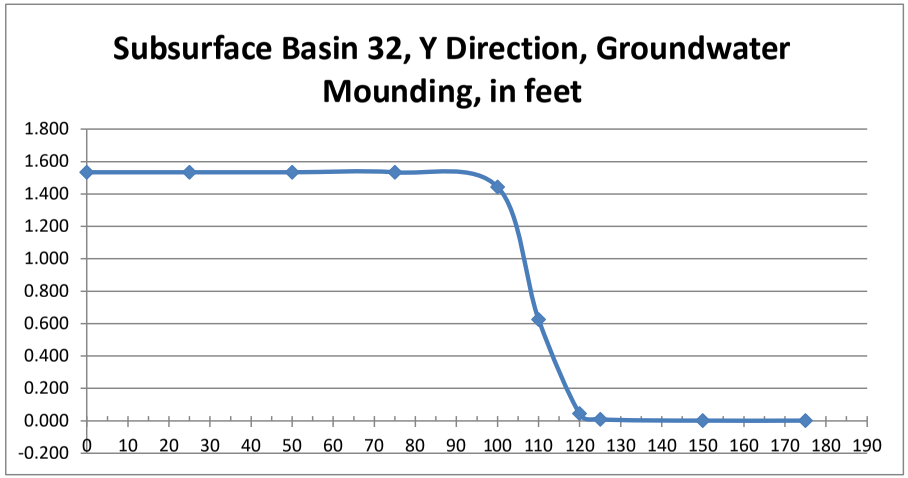
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
109.000	x	1/2 length of basin (x direction, in feet)
27.000	y	1/2 width of basin (y direction, in feet)
5.52	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
11.533	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.533	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.533	0
1.533	25
1.533	50
1.533	75
1.443	100
0.625	110
0.045	120
0.008	125
0.001	150
0.001	175

Re-Calculate Now



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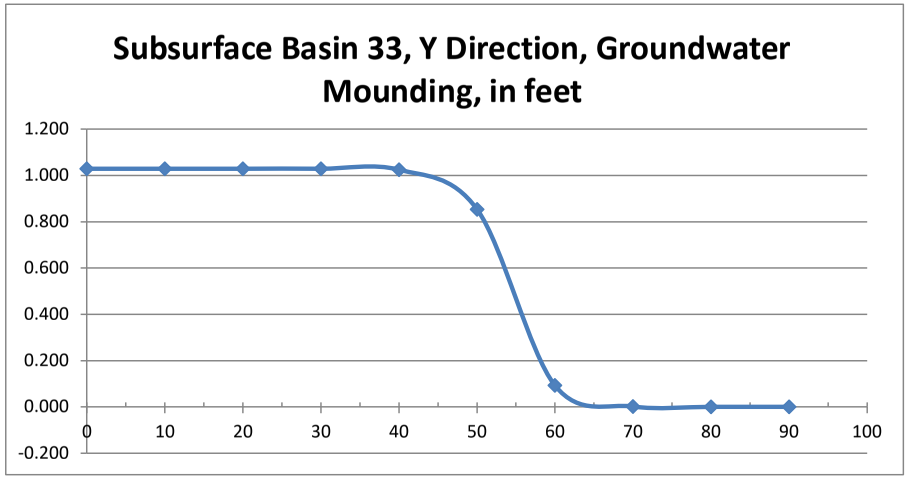
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
54.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
3.89	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
11.029	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.029	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.029	0
1.029	10
1.029	20
1.029	30
1.025	40
0.854	50
0.092	60
0.002	70
0.000	80
0.000	90

Re-Calculate Now



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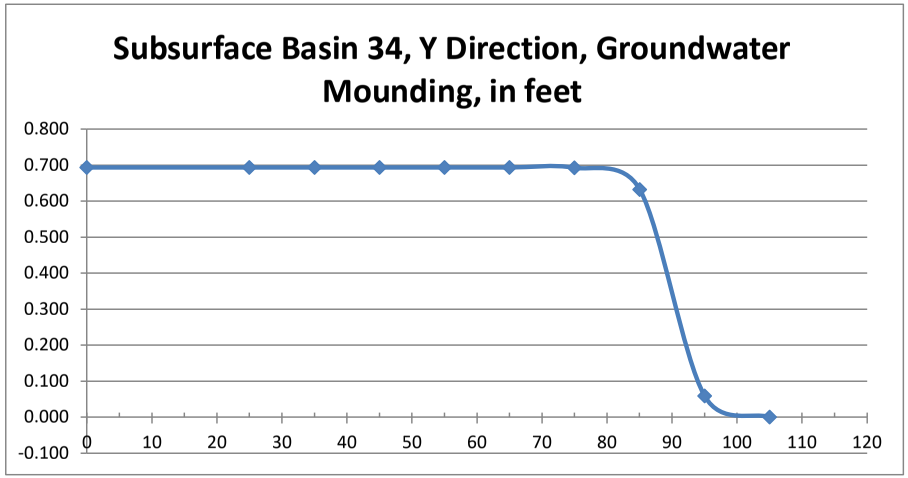
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
90.000	x	1/2 length of basin (x direction, in feet)
10.000	y	1/2 width of basin (y direction, in feet)
2.54	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.693	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.693	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.693	0
0.693	25
0.693	35
0.693	45
0.693	55
0.693	65
0.693	75
0.633	85
0.059	95
0.000	105

Re-Calculate Now



Y DIRECTION

Disclaimer

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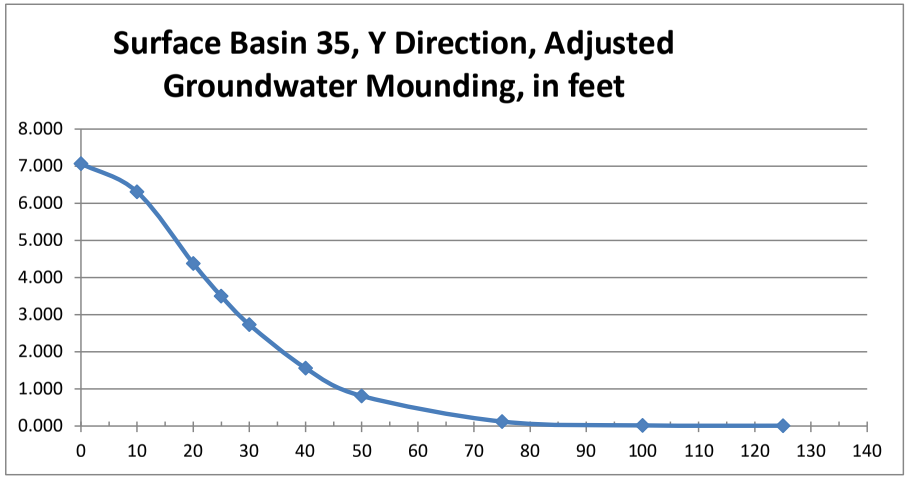
Input Values

0.50	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.64	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
13.000	x	1/2 length of basin (x direction, in feet)
79.000	y	1/2 width of basin (y direction, in feet)
58.12	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

17.072	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
7.072	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
7.072	0
6.312	10
4.379	20
3.501	25
2.736	30
1.558	40
0.815	50
0.119	75
0.016	100
0.006	125

Re-Calculate Now



Y DIRECTION

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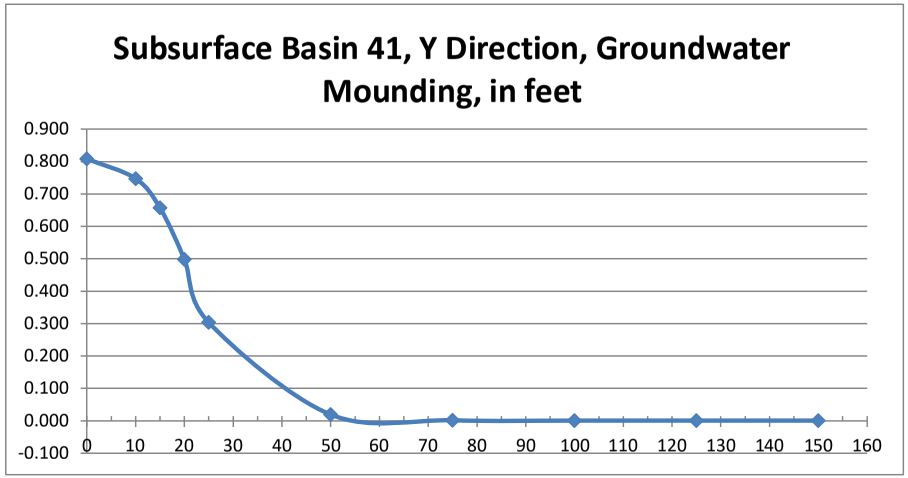
Input Values

0.10	R	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
21.000	x	1/2 length of basin (x direction, in feet)
7.000	y	1/2 width of basin (y direction, in feet)
38.00	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

10.809	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.809	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.809	0
0.747	10
0.657	15
0.499	20
0.304	25
0.020	50
0.001	75
0.001	100
0.001	125
0.001	150

Re-Calculate Now



Y DIRECTION

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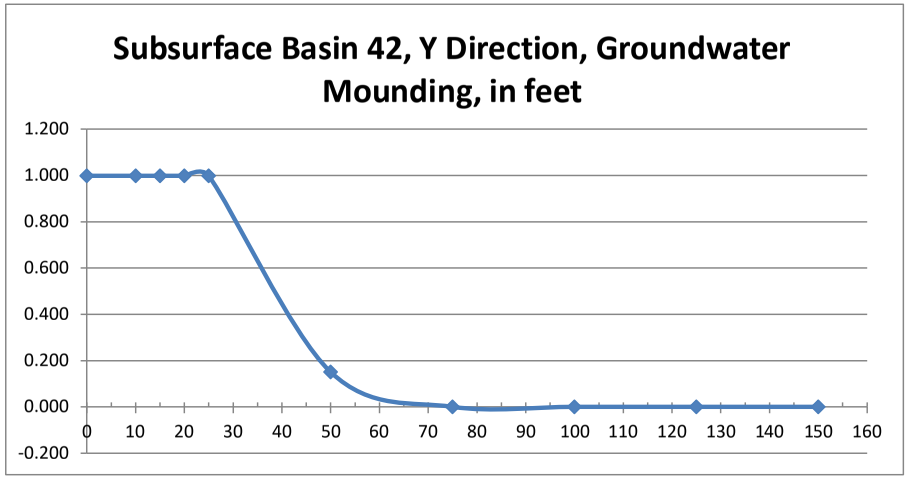
Input Values

2.31	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.31	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
47.000	x	1/2 length of basin (x direction, in feet)
11.000	y	1/2 width of basin (y direction, in feet)
0.78	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
10.998	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
0.998	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
0.998	0
0.998	10
0.998	15
0.998	20
0.998	25
0.151	50
0.000	75
0.000	100
0.000	125
0.000	150

Re-Calculate Now



Y DIRECTION

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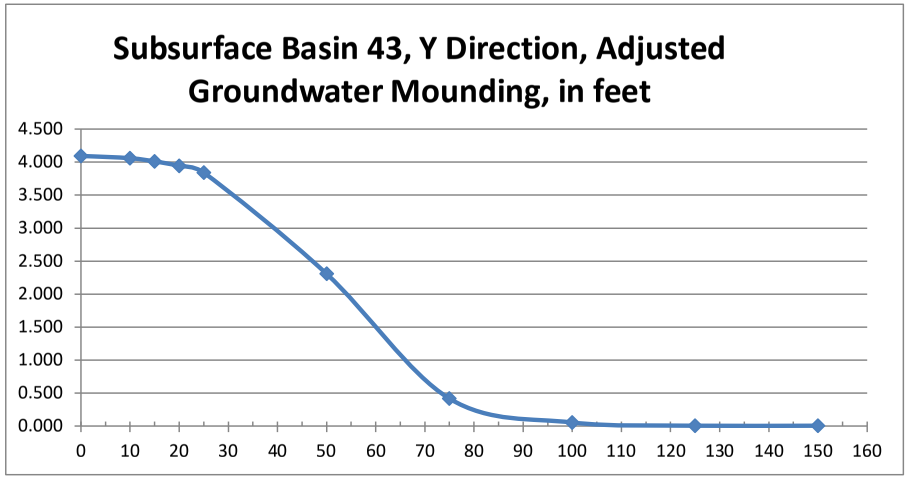
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.31	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
51.000	x	1/2 length of basin (x direction, in feet)
11.000	y	1/2 width of basin (y direction, in feet)
35.22	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
14.093	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.093	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.093	0
4.058	10
4.012	15
3.941	20
3.840	25
2.310	50
0.418	75
0.056	100
0.007	125
0.003	150

Re-Calculate Now



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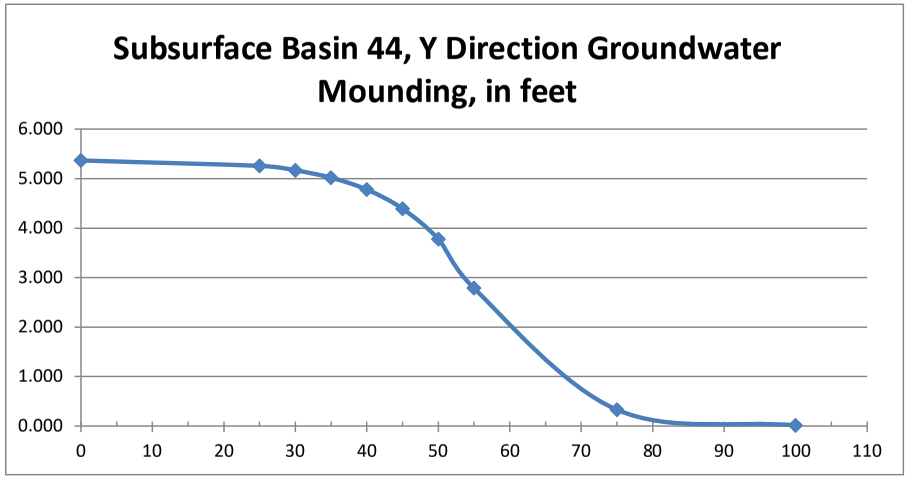
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
55.000	x	1/2 length of basin (x direction, in feet)
11.000	y	1/2 width of basin (y direction, in feet)
32.79	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)
15.366	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
5.366	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
5.366	0
5.259	25
5.169	30
5.020	35
4.778	40
4.392	45
3.776	50
2.786	55
0.328	75
0.011	100

Re-Calculate Now



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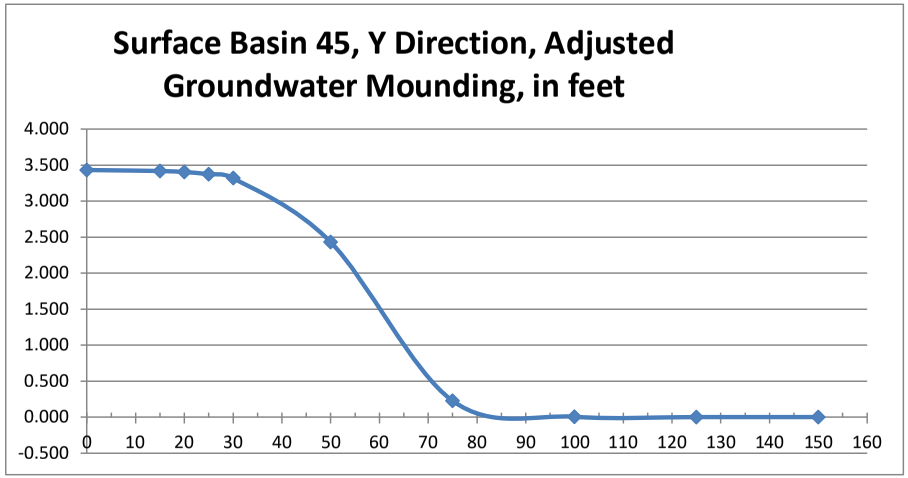
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.31	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
56.000	x	1/2 length of basin (x direction, in feet)
43.000	y	1/2 width of basin (y direction, in feet)
12.43	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.431	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.431	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.431	0
3.419	15
3.403	20
3.374	25
3.319	30
2.430	50
0.228	75
0.006	100
0.001	125
0.001	150

Re-Calculate Now



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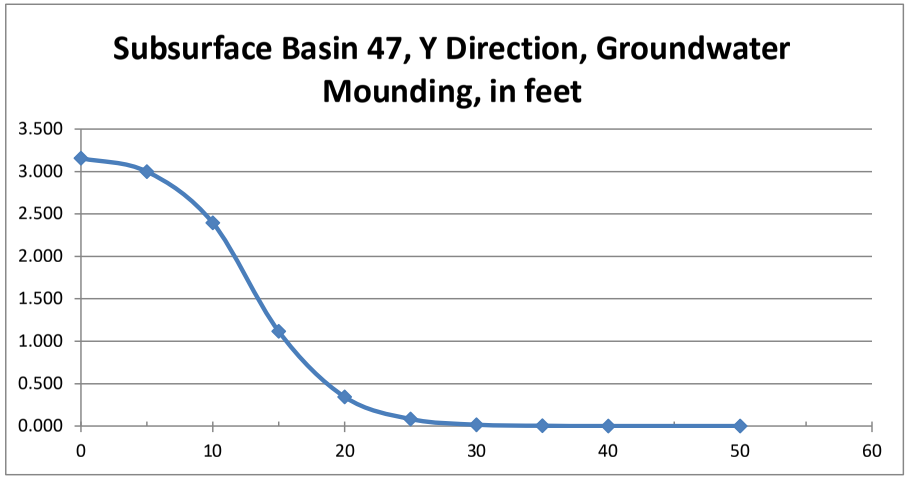
Input Values

1.64	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.64	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
13.000	x	1/2 length of basin (x direction, in feet)
36.000	y	1/2 width of basin (y direction, in feet)
3.64	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.158	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.158	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.158	0
3.000	5
2.395	10
1.115	15
0.345	20
0.083	25
0.016	30
0.003	35
0.001	40
0.001	50

Re-Calculate Now



Y DIRECTION

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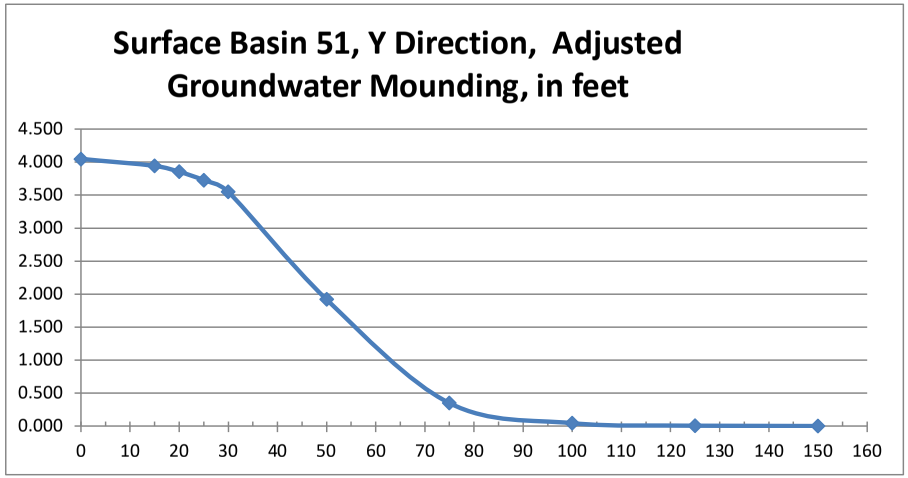
Input Values

0.28	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.64	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
48.000	x	1/2 length of basin (x direction, in feet)
15.000	y	1/2 width of basin (y direction, in feet)
49.83	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

14.047	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.047	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.047	0
3.944	15
3.854	20
3.726	25
3.549	30
1.921	50
0.349	75
0.045	100
0.006	125
0.003	150

Re-Calculate Now



Y DIRECTION

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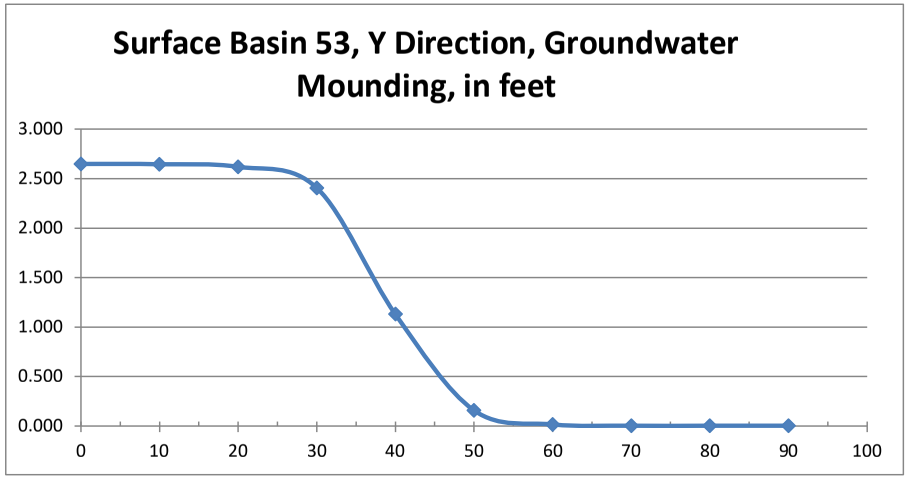
Input Values

1.54	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.54	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
39.000	x	1/2 length of basin (x direction, in feet)
4.000	y	1/2 width of basin (y direction, in feet)
7.03	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.647	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.647	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.647	0
2.645	10
2.618	20
2.406	30
1.130	40
0.160	50
0.016	60
0.003	70
0.002	80
0.002	90

Re-Calculate Now



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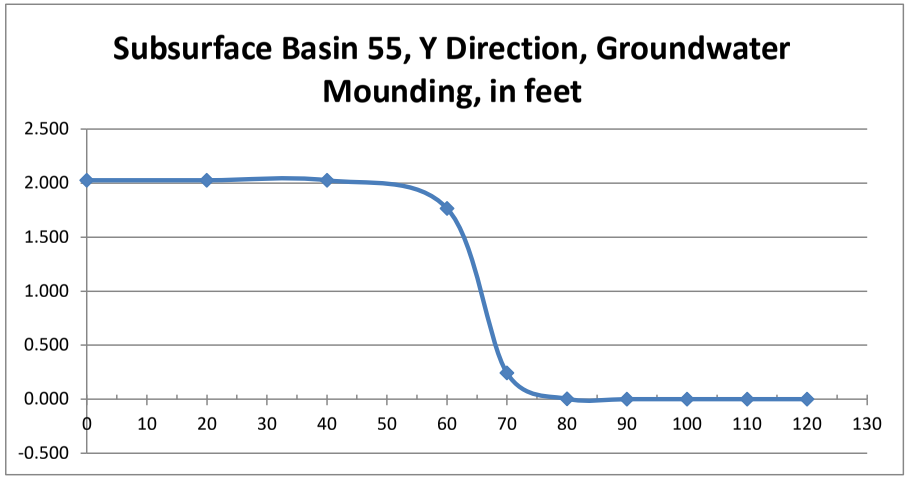
Input Values

0.75	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
0.75	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
65.000	x	1/2 length of basin (x direction, in feet)
50.000	y	1/2 width of basin (y direction, in feet)
4.86	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.025	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.025	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.025	0
2.025	20
2.025	40
1.767	60
0.244	70
0.005	80
0.001	90
0.001	100
0.001	110
0.001	120

Re-Calculate Now



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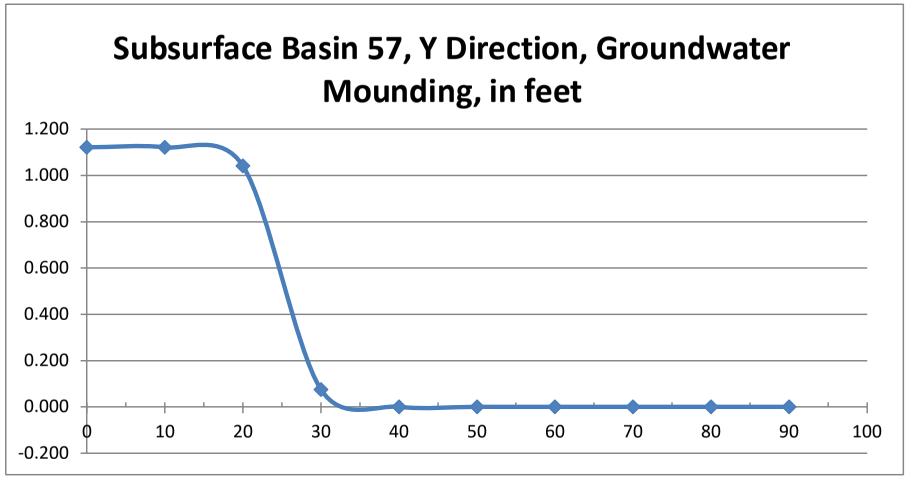
Input Values

0.75	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
0.75	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
25.000	x	1/2 length of basin (x direction, in feet)
82.000	y	1/2 width of basin (y direction, in feet)
2.69	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.121	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.121	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.121	0
1.121	10
1.042	20
0.075	30
0.000	40
0.000	50
0.000	60
0.000	70
0.000	80
0.000	90

Re-Calculate Now



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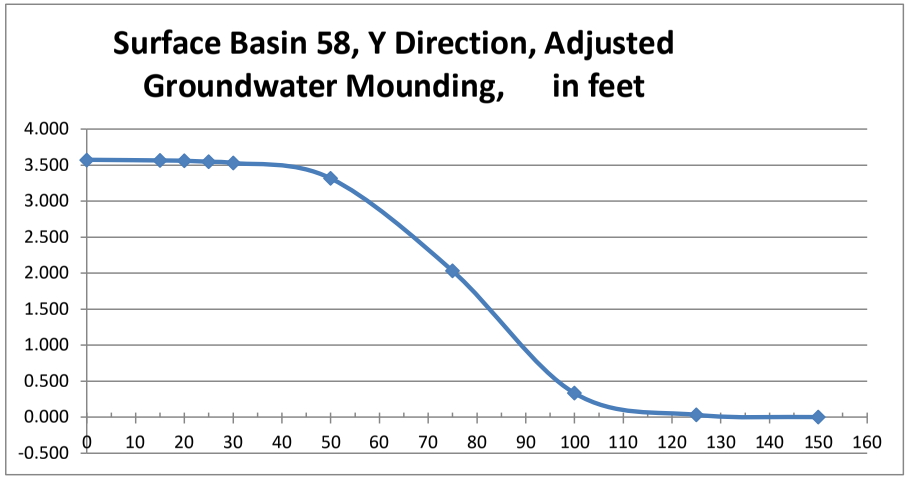
Input Values

0.13	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
1.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
77.000	x	1/2 length of basin (x direction, in feet)
25.000	y	1/2 width of basin (y direction, in feet)
61.50	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

13.572	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
3.572	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
3.572	0
3.565	15
3.559	20
3.548	25
3.530	30
3.318	50
2.032	75
0.336	100
0.031	125
0.003	150

Re-Calculate Now



Y DIRECTION

Disclaimer

This spreadsheet solving the Hantush (1967) equation for ground-water mounding beneath an infiltration basin is made available to the general public as a convenience for those wishing to replicate values documented in the USGS Scientific Investigations Report 2010-5102 "Groundwater mounding beneath hypothetical stormwater infiltration basins" or to calculate values based on user-specified site conditions. Any changes made to the spreadsheet (other than values identified as user-specified) after transmission from the USGS could have unintended, undesirable consequences. These consequences could include, but may not be limited to: erroneous output, numerical instabilities, and violations of underlying assumptions that are inherent in results presented in the accompanying USGS published report. The USGS assumes no responsibility for the consequences of any changes made to the spreadsheet. If changes are made to the spreadsheet, the user is responsible for documenting the changes and justifying the results and conclusions.

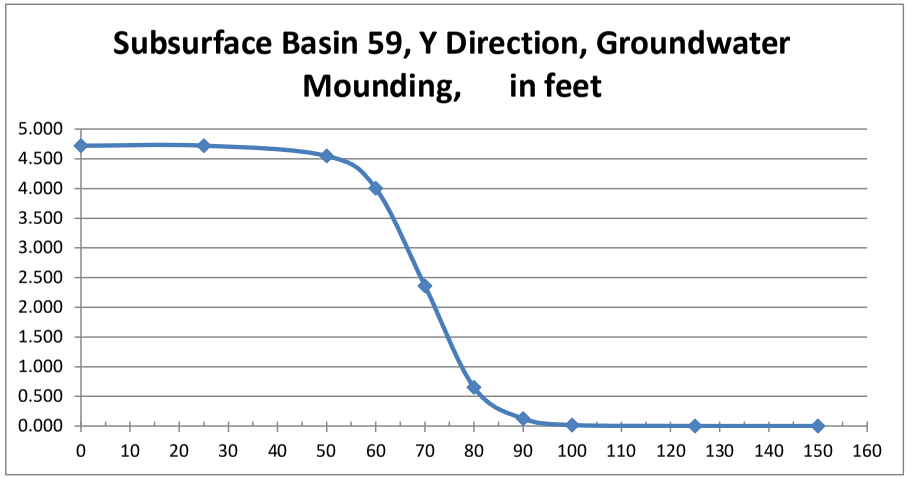
Input Values

0.50	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
1.00	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
70.000	x	1/2 length of basin (x direction, in feet)
77.000	y	1/2 width of basin (y direction, in feet)
17.00	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

14.722	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
4.722	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
4.722	0
4.721	25
4.550	50
4.002	60
2.362	70
0.651	80
0.124	90
0.017	100
0.002	125
0.002	150

Re-Calculate Now



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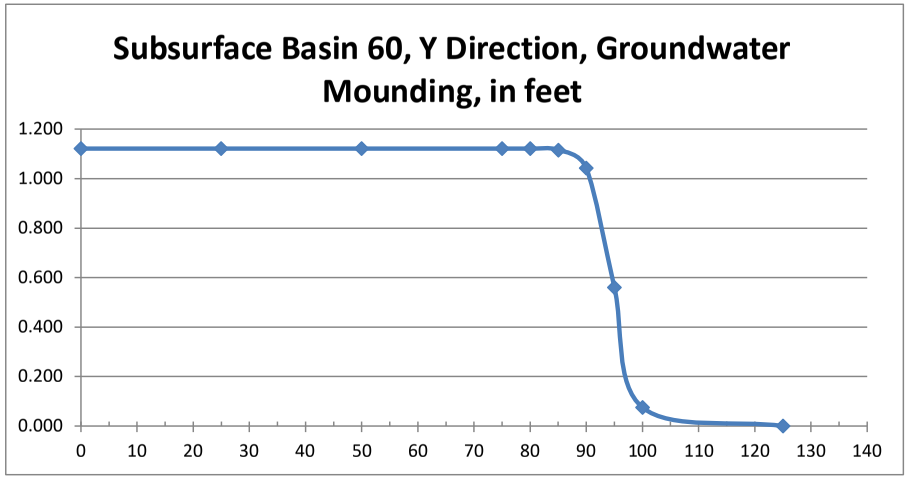
Input Values

0.75	*R*	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
0.75	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
95.000	x	1/2 length of basin (x direction, in feet)
30.000	y	1/2 width of basin (y direction, in feet)
2.69	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.121	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.121	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.121	0
1.121	25
1.121	50
1.121	75
1.121	80
1.115	85
1.042	90
0.561	95
0.075	100
0.000	125

Re-Calculate Now



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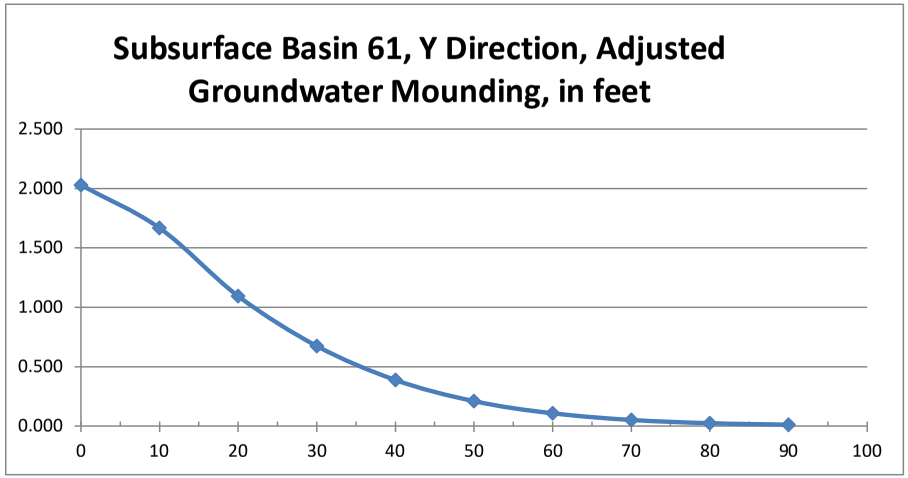
Input Values

0.26	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
2.50	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
9.000	x	1/2 length of basin (x direction, in feet)
55.000	y	1/2 width of basin (y direction, in feet)
42.51	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

12.028	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
2.028	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
2.028	0
1.669	10
1.095	20
0.673	30
0.388	40
0.210	50
0.107	60
0.052	70
0.024	80
0.011	90

Re-Calculate Now



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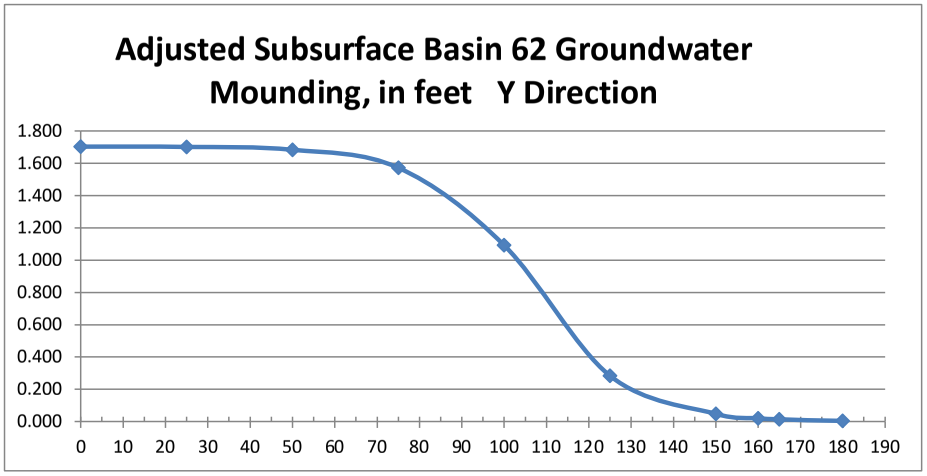
Input Values

0.10	*R*	Recharge rate (permeability rate) (in/hr)
0.150	Sy	Specific yield, Sy (dimensionless) default value is 0.15; max value is 0.2 provided that a lab test data is submitted
2.50	Kh	Horizontal hydraulic conductivity (in/hr) Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
106.000	x	1/2 length of basin (x direction, in feet)
34.000	y	1/2 width of basin (y direction, in feet)
35.60	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.704	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.704	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.704	0
1.702	25
1.684	50
1.573	75
1.093	100
0.284	125
0.047	150
0.021	160
0.013	165
0.004	180

Re-Calculate Now



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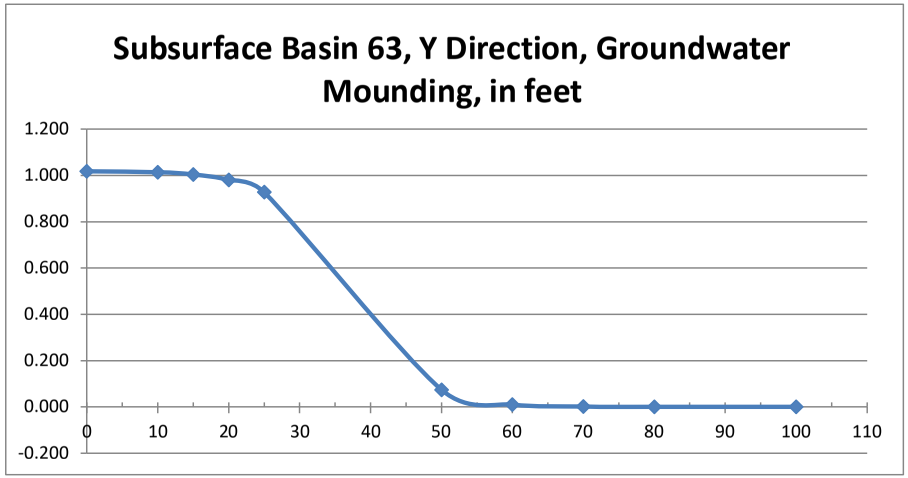
Input Values

0.63	R	Recharge rate (permeability rate) (in/hr)
		Specific yield, Sy (dimensionless)
0.150	Sy	default value is 0.15; max value is 0.2 provided that a lab test data is submitted
		Horizontal hydraulic conductivity (in/hr)
5.00	Kh	Kh = 5xRecharge Rate (R) in the costal plan; Kh=R outside the coastal plan
37.000	x	1/2 length of basin (x direction, in feet)
55.000	y	1/2 width of basin (y direction, in feet)
2.91	t	Duration of infiltration period (hours)
10.00	hi(0)	Initial thickness of saturated zone (feet)

11.018	h(max)	Maximum thickness of saturated zone (beneath center of basin at end of infiltration period)
1.018	Δh(max)	Maximum groundwater mounding (beneath center of basin at end of infiltration period)

Ground-water Mounding, in feet	Distance from center of basin in x direction, in feet
1.018	0
1.014	10
1.004	15
0.981	20
0.928	25
0.074	50
0.011	60
0.001	70
0.000	80
0.000	100

Re-Calculate Now



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Name of Faciltiy: Princeton Nurseries
Location: Township of Plainsboro, Middlesex Co

Groundwater Recharge Summary

Basin	Recharge Volume (cf)
1	39,600
4	18,900
5	35,000
6	47,000
7	46,750
11	60,000
12	24,600
15	100,000
16	165,000
19	28,500
20	80,500
25	175,000
26	126,000
27	66,000
29	15,750
30	60,500
35	10,880
42	61,750
43	79,250
44	80,000
45	145,000
51	57,725
52	25,500
53	24,000
55	240,000
56	250,000
57	95,000
58	125,000
59	126,250
60	152,000
61	65,000
62	150,000
Provided Recharge Volume	2,776,455
Required Recharge Volume	2,718,223

New Jersey Groundwater Recharge Spreadsheet Version 2.0 November 2003

Annual Groundwater Recharge Analysis (based on GSR-32)

Select Township ↓	Average Annual P (in)	Climatic Factor
MIDDLESEX CO., PLAINSBORO TWP	44.9	1.43

Project Name:	Princeton Nurseries
Description:	
Analysis Date:	09/25/24

Pre-Developed Conditions

Land Segment	Area (acres)	TR-55 Land Cover	Soil	Annual Recharge (in)	Annual Recharge (cu.ft)
1	1.5	Open space	Woodstown	11.3	61,497
2	0.3	Woods	Woodstown	11.0	11,948
3	43.9	Meadow, Pasture, Grassland or range	Nixon	13.5	2,153,662
4	12.1	Woods	Nixon	13.6	597,959
5	20.7	Meadow, Pasture, Grassland or range	Hammonton	13.8	1,033,279
6	8.6	Woods	Hammonton	13.4	417,741
7	1	Impervious areas	Nixon	0.0	-
8	2	Woods-grass combination	Hammonton	13.7	99,715
9	0				
10	0				
11	0				
12	0				
13	0				
14	0				
15	0				
Total =	90.1			Total Annual Recharge (in)	Total Annual Recharge (cu-ft)
				13.4	4,375,801

Post-Developed Conditions

Land Segment	Area (acres)	TR-55 Land Cover	Soil	Annual Recharge (in)	Annual Recharge (cu.ft)
1	56.7	Impervious areas	Nixon	0.0	-
2	19.9	Open space	Hammonton	13.9	1,002,917
3	11.7	Open space	Nixon	13.7	581,216
4	0.3	Woods	Woodstown	11.0	11,948
5	1.5	Open space	Woodstown	11.3	61,497
6	0				
7	0				
8	0				
9	0				
10	0				
11	0				
12	0				
13	0				
14	0				
15	0				
Total =	90.1			Total Annual Recharge (in)	Total Annual Recharge (cu.ft)
				5.1	1,657,577

Annual Recharge Requirements Calculation ↓

% of Pre-Developed Annual Recharge to Preserve =	100%	Total Impervious Area (sq.ft) 2,469,852
Post-Development Annual Recharge Deficit=	*2,718,223*	(cubic feet)

Recharge Efficiency Parameters Calculations (area averages)

RWC=	3.70	(in)	DRWC=	3.70	(in)
ERWC =	1.05	(in)	EDRWC=	1.05	(in)

Procedure to fill the Pre-Development and Post-Development Conditions Tables

For each land segment, first enter the area, then select TR-55 Land Cover, then select Soil. Start from the top of the table and proceed downward. Don't leave blank rows (with A=0) in between your segment entries. Rows with A=0 will not be displayed or used in calculations. For impervious areas outside of standard lots select "Impervious Areas" as the Land Cover. Soil type for impervious areas are only required if an infiltration facility will be built within these areas.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	Bioretention Basin 1

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	4791.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	6.2	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-6.2	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	1.05	in
ERWC Modified to consider dEXC	EDRWC	1.05	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.87	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.31	in
Inches of Rainfall to capture	Pdesign	1.53	in
Recharge Provided Avg. over Imp. Area		20.2	in
Runoff Captured Avg. over imp. Area		32.0	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.20	unitless
BMP Volume	VBMP	2,474	cu.ft

Parameters from Annual Recharge Worksheet

Parameter	Symbol	Value	Unit
Post-D Deficit Recharge (or desired recharge volume)	Vdef	39,600	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	23,522	sq.ft
Root Zone Water Capacity	RWC	3.70	in
RWC Modified to consider dEXC	DRWC	3.70	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.2	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		39,600	cu.ft
Avg BMP Recharge Efficiency		63.1%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		91.7%	%
%Runoff Recharged		0.6%	%
%Rainfall Recharged		0.4%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 4

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	2079.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	8.3	in
Upper level of the BMP surface (negative if above ground)	dBMPu	43.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	76.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.00	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	2.77	in
Inches of Rainfall to capture	Pdesign	3.00	in
Recharge Provided Avg. over Imp. Area		34.7	in
Runoff Captured Avg. over imp. Area		34.8	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.32	unitless
BMP Volume	VBMP	1,444	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	18,900	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	6,534	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.01	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.1	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		18,900	cu.ft
Avg BMP Recharge Efficiency		99.8%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		99.7%	%
%Runoff Recharged		0.3%	%
%Rainfall Recharged		0.2%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 5

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	1154.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	8.6	in
Upper level of the BMP surface (negative if above ground)	dBMPu	12.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	76.8	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.01	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.01	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.61	in
Inches of Rainfall to capture	Pdesign	0.75	in
Recharge Provided Avg. over Imp. Area		25.4	in
Runoff Captured Avg. over imp. Area		25.4	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.07	unitless
BMP Volume	VBMP	829	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	35,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	16,552	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.02	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.2	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		35,000	cu.ft
Avg BMP Recharge Efficiency		99.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		72.8%	%
%Runoff Recharged		0.5%	%
%Rainfall Recharged		0.4%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 6

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	1154.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	20.3	in
Upper level of the BMP surface (negative if above ground)	dBMPu	40.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	66.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.00	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.46	in
Inches of Rainfall to capture	Pdesign	1.68	in
Recharge Provided Avg. over Imp. Area		32.4	in
Runoff Captured Avg. over imp. Area		32.4	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.07	unitless
BMP Volume	VBMP	1,952	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	47,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	17,424	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.02	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.2	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		47,000	cu.ft
Avg BMP Recharge Efficiency		99.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		92.8%	%
%Runoff Recharged		0.6%	%
%Rainfall Recharged		0.5%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	06/11/24	UGB 7

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	2128.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	10.9	in
Upper level of the BMP surface (negative if above ground)	dBMPu	12.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	66.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.02	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.02	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.46	in
Inches of Rainfall to capture	Pdesign	1.68	in
Recharge Provided Avg. over Imp. Area		32.2	in
Runoff Captured Avg. over imp. Area		32.3	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.12	unitless
BMP Volume	VBMP	1,935	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	46,750	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	17,424	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.07	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.2	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		46,750	cu.ft
Avg BMP Recharge Efficiency		99.5%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		92.7%	%
%Runoff Recharged		0.6%	%
%Rainfall Recharged		0.5%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	06/11/24	UGB 11

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	1260.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	15.3	in
Upper level of the BMP surface (negative if above ground)	dBMPu	12.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	48.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.13	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.10	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.75	in
Inches of Rainfall to capture	Pdesign	0.92	in
Recharge Provided Avg. over Imp. Area		27.1	in
Runoff Captured Avg. over imp. Area		27.5	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.05	unitless
BMP Volume	VBMP	1,610	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	60,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	26,571	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.45	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.3	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		60,000	cu.ft
Avg BMP Recharge Efficiency		98.6%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		78.7%	%
%Runoff Recharged		0.8%	%
%Rainfall Recharged		0.6%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	Bioretention Basin 12

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	5445.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	7.8	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-10.8	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.78	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	2.77	in
Inches of Rainfall to capture	Pdesign	3.00	in
Recharge Provided Avg. over Imp. Area		18.8	in
Runoff Captured Avg. over imp. Area		34.8	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.35	unitless
BMP Volume	VBMP	3,546	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	24,600	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	15,681	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	3.22	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.1	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		24,600	cu.ft
Avg BMP Recharge Efficiency		54.0%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		99.8%	%
%Runoff Recharged		0.3%	%
%Rainfall Recharged		0.3%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 15

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	7560.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	7.1	in
Upper level of the BMP surface (negative if above ground)	dBMPu	36.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	80.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.00	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.67	in
Inches of Rainfall to capture	Pdesign	1.90	in
Recharge Provided Avg. over Imp. Area		32.8	in
Runoff Captured Avg. over imp. Area		32.8	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.21	unitless
BMP Volume	VBMP	4,449	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	100,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	36,590	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.01	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.5	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		100,000	cu.ft
Avg BMP Recharge Efficiency		99.8%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		94.1%	%
%Runoff Recharged		1.4%	%
%Rainfall Recharged		1.1%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 16

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	10505.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	6.4	in
Upper level of the BMP surface (negative if above ground)	dBMPu	36.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	80.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.00	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.10	in
Inches of Rainfall to capture	Pdesign	1.31	in
Recharge Provided Avg. over Imp. Area		30.7	in
Runoff Captured Avg. over imp. Area		30.8	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.16	unitless
BMP Volume	VBMP	5,631	cu.ft

Parameters from Annual Recharge Worksheet

Parameter	Symbol	Value	Unit
Post-D Deficit Recharge (or desired recharge volume)	Vdef	165,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	64,469	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.01	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.8	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		165,000	cu.ft
Avg BMP Recharge Efficiency		99.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		88.1%	%
%Runoff Recharged		2.3%	%
%Rainfall Recharged		1.8%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 19

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	1120.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	6.4	in
Upper level of the BMP surface (negative if above ground)	dBMPu	27.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	54.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.01	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.01	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.47	in
Inches of Rainfall to capture	Pdesign	0.59	in
Recharge Provided Avg. over Imp. Area		22.4	in
Runoff Captured Avg. over imp. Area		22.5	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.07	unitless
BMP Volume	VBMP	594	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	28,500	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	15,246	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.03	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.1	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		28,500	cu.ft
Avg BMP Recharge Efficiency		99.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		64.4%	%
%Runoff Recharged		0.4%	%
%Rainfall Recharged		0.3%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 20

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	5582.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	7.4	in
Upper level of the BMP surface (negative if above ground)	dBMPu	16.8	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	58.8	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.03	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.03	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.46	in
Inches of Rainfall to capture	Pdesign	1.68	in
Recharge Provided Avg. over Imp. Area		32.1	in
Runoff Captured Avg. over imp. Area		32.5	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.19	unitless
BMP Volume	VBMP	3,457	cu.ft

Parameters from Annual Recharge Worksheet

Parameter	Symbol	Value	Unit
Post-D Deficit Recharge (or desired recharge volume)	Vdef	80,500	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	30,056	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.12	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.4	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		80,500	cu.ft
Avg BMP Recharge Efficiency		98.8%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		93.2%	%
%Runoff Recharged		1.1%	%
%Rainfall Recharged		0.9%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	06/11/24	Basin 25

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	13504.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	10.7	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-16.2	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.74	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.99	in
Inches of Rainfall to capture	Pdesign	2.22	in
Recharge Provided Avg. over Imp. Area		25.0	in
Runoff Captured Avg. over imp. Area		33.6	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.16	unitless
BMP Volume	VBMP	12,008	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	175,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	84,070	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	3.22	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.8	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		175,000	cu.ft
Avg BMP Recharge Efficiency		74.4%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		96.2%	%
%Runoff Recharged		2.4%	%
%Rainfall Recharged		1.9%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	06/11/24	Bio Basin 26

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	4356.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	9.6	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-33.5	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.72	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.61	in
Inches of Rainfall to capture	Pdesign	0.75	in
Recharge Provided Avg. over Imp. Area		21.8	in
Runoff Captured Avg. over imp. Area		25.4	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.06	unitless
BMP Volume	VBMP	3,468	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	126,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	69,260	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	3.22	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.6	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		126,000	cu.ft
Avg BMP Recharge Efficiency		85.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		72.8%	%
%Runoff Recharged		1.7%	%
%Rainfall Recharged		1.4%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 27

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	2218.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	7.8	in
Upper level of the BMP surface (negative if above ground)	dBMPu	39.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	81.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.00	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.52	in
Inches of Rainfall to capture	Pdesign	0.65	in
Recharge Provided Avg. over Imp. Area		23.6	in
Runoff Captured Avg. over imp. Area		23.6	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.07	unitless
BMP Volume	VBMP	1,441	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	66,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	33,541	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.01	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.3	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		66,000	cu.ft
Avg BMP Recharge Efficiency		99.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		67.7%	%
%Runoff Recharged		0.9%	%
%Rainfall Recharged		0.7%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	06/11/24	Infiltration Basin 29

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	348.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	7.8	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-15.6	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.72	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.07	in
Inches of Rainfall to capture	Pdesign	0.12	in
Recharge Provided Avg. over Imp. Area		4.8	in
Runoff Captured Avg. over imp. Area		5.3	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.01	unitless
BMP Volume	VBMP	226	cu.ft

Parameters from Annual Recharge Worksheet

Parameter	Symbol	Value	Unit
Post-D Deficit Recharge (or desired recharge volume)	Vdef	15,750	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	39,204	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	3.22	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.1	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		15,750	cu.ft
Avg BMP Recharge Efficiency		90.5%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		15.3%	%
%Runoff Recharged		0.2%	%
%Rainfall Recharged		0.2%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	Infiltration Basin 30

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	22961.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	0.5	in
Upper level of the BMP surface (negative if above ground)	dBMPu	60.6	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	61.2	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.00	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.19	in
Inches of Rainfall to capture	Pdesign	0.26	in
Recharge Provided Avg. over Imp. Area		12.1	in
Runoff Captured Avg. over imp. Area		12.2	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.38	unitless
BMP Volume	VBMP	921	cu.ft

Parameters from Annual Recharge Worksheet

Parameter	Symbol	Value	Unit
Post-D Deficit Recharge (or desired recharge volume)	Vdef	60,500	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	60,112	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.01	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.3	in

System Performance Calculated Parameters

Parameter		Value	Unit
Annual BMP Recharge Volume		60,500	cu.ft
Avg BMP Recharge Efficiency		99.3%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		34.8%	%
%Runoff Recharged		0.8%	%
%Rainfall Recharged		0.7%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	BioBasin 35

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	4140.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	5.8	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-6.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.80	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	2.77	in
Inches of Rainfall to capture	Pdesign	3.00	in
Recharge Provided Avg. over Imp. Area		15.0	in
Runoff Captured Avg. over imp. Area		34.9	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.48	unitless
BMP Volume	VBMP	2,011	cu.ft

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	10,880	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	8,712	sq.ft
Root Zone Water Capacity	RWC	3.23	in
RWC Modified to consider dEXC	DRWC	3.23	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.1	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		10,880	cu.ft
Avg BMP Recharge Efficiency		42.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		100.0%	%
%Runoff Recharged		0.2%	%
%Rainfall Recharged		0.1%	%

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	09/27/24	UGB 42

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	2043.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	12.0	in
Upper level of the BMP surface (negative if above ground)	dBMPu	24.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	66.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.01	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.02	in
Inches of Rainfall to capture	Pdesign	1.24	in
Recharge Provided Avg. over Imp. Area		30.4	in
Runoff Captured Avg. over imp. Area		30.4	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.08	unitless
BMP Volume	VBMP	2,037	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	61,750	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	24,393	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.02	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.3	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		61,750	cu.ft
Avg BMP Recharge Efficiency		99.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		87.1%	%
%Runoff Recharged		0.9%	%
%Rainfall Recharged		0.7%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 43

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	2218.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	12.0	in
Upper level of the BMP surface (negative if above ground)	dBMPu	39.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	81.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.00	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.82	in
Inches of Rainfall to capture	Pdesign	1.00	in
Recharge Provided Avg. over Imp. Area		28.4	in
Runoff Captured Avg. over imp. Area		28.4	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.07	unitless
BMP Volume	VBMP	2,221	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	79,250	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	33,541	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.01	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.4	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		79,250	cu.ft
Avg BMP Recharge Efficiency		99.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		81.3%	%
%Runoff Recharged		1.1%	%
%Rainfall Recharged		0.9%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 44

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	2387.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	11.5	in
Upper level of the BMP surface (negative if above ground)	dBMPu	39.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	81.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.00	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.82	in
Inches of Rainfall to capture	Pdesign	1.00	in
Recharge Provided Avg. over Imp. Area		28.6	in
Runoff Captured Avg. over imp. Area		28.6	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.07	unitless
BMP Volume	VBMP	2,284	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	80,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	33,541	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.01	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.4	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		80,000	cu.ft
Avg BMP Recharge Efficiency		99.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		82.0%	%
%Runoff Recharged		1.1%	%
%Rainfall Recharged		0.9%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	06/11/24	Infiltration Basin 45

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	12197.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	6.5	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-7.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.74	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.02	in
Inches of Rainfall to capture	Pdesign	1.24	in
Recharge Provided Avg. over Imp. Area		22.1	in
Runoff Captured Avg. over imp. Area		30.4	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.15	unitless
BMP Volume	VBMP	6,559	cu.ft

Parameters from Annual Recharge Worksheet

Parameter	Symbol	Value	Unit
Post-D Deficit Recharge (or desired recharge volume)	Vdef	145,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	78,844	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	3.22	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.7	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		145,000	cu.ft
Avg BMP Recharge Efficiency		72.6%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		87.0%	%
%Runoff Recharged		2.0%	%
%Rainfall Recharged		1.6%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	06/11/24	BioBasin 51

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	2613.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	12.0	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-12.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.73	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.19	in
Inches of Rainfall to capture	Pdesign	1.41	in
Recharge Provided Avg. over Imp. Area		26.1	in
Runoff Captured Avg. over imp. Area		31.6	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.10	unitless
BMP Volume	VBMP	2,611	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	57,725	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	26,571	sq.ft
Root Zone Water Capacity	RWC	3.23	in
RWC Modified to consider dEXC	DRWC	3.23	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.3	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		57,725	cu.ft
Avg BMP Recharge Efficiency		82.5%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		90.5%	%
%Runoff Recharged		0.8%	%
%Rainfall Recharged		0.6%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	06/11/24	Bio Basin 52

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	1263.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	6.2	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-6.2	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.73	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.47	in
Inches of Rainfall to capture	Pdesign	0.59	in
Recharge Provided Avg. over Imp. Area		18.0	in
Runoff Captured Avg. over imp. Area		22.2	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.07	unitless
BMP Volume	VBMP	650	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	25,500	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	16,988	sq.ft
Root Zone Water Capacity	RWC	3.23	in
RWC Modified to consider dEXC	DRWC	3.23	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.1	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		25,500	cu.ft
Avg BMP Recharge Efficiency		81.0%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		63.7%	%
%Runoff Recharged		0.4%	%
%Rainfall Recharged		0.3%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	BioBasin 53

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	610.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	11.3	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-11.4	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.72	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.50	in
Inches of Rainfall to capture	Pdesign	0.63	in
Recharge Provided Avg. over Imp. Area		20.7	in
Runoff Captured Avg. over imp. Area		23.2	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.04	unitless
BMP Volume	VBMP	576	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	24,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	13,939	sq.ft
Root Zone Water Capacity	RWC	3.23	in
RWC Modified to consider dEXC	DRWC	3.23	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.1	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		24,000	cu.ft
Avg BMP Recharge Efficiency		89.2%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		66.3%	%
%Runoff Recharged		0.3%	%
%Rainfall Recharged		0.3%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 55

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	13200.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	8.2	in
Upper level of the BMP surface (negative if above ground)	dBMPu	31.8	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	67.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.01	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.31	in
Inches of Rainfall to capture	Pdesign	1.53	in
Recharge Provided Avg. over Imp. Area		31.6	in
Runoff Captured Avg. over imp. Area		31.7	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.14	unitless
BMP Volume	VBMP	9,071	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	240,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	91,040	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.02	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	1.2	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		240,000	cu.ft
Avg BMP Recharge Efficiency		99.8%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		90.8%	%
%Runoff Recharged		3.3%	%
%Rainfall Recharged		2.6%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 56

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	21359.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	6.7	in
Upper level of the BMP surface (negative if above ground)	dBMPu	18.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	62.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.01	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.01	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.67	in
Inches of Rainfall to capture	Pdesign	1.90	in
Recharge Provided Avg. over Imp. Area		33.1	in
Runoff Captured Avg. over imp. Area		33.2	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.24	unitless
BMP Volume	VBMP	11,947	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	250,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	90,604	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.03	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	1.2	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		250,000	cu.ft
Avg BMP Recharge Efficiency		99.7%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		95.2%	%
%Runoff Recharged		3.5%	%
%Rainfall Recharged		2.7%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 57

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	11405.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	4.6	in
Upper level of the BMP surface (negative if above ground)	dBMPu	16.8	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	50.4	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.09	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.07	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.46	in
Inches of Rainfall to capture	Pdesign	1.68	in
Recharge Provided Avg. over Imp. Area		31.2	in
Runoff Captured Avg. over imp. Area		32.8	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.31	unitless
BMP Volume	VBMP	4,417	cu.ft

Parameters from Annual Recharge Worksheet

Parameter	Symbol	Value	Unit
Post-D Deficit Recharge (or desired recharge volume)	Vdef	95,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	36,590	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.30	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.5	in

System Performance Calculated Parameters

Parameter		Value	Unit
Annual BMP Recharge Volume		95,000	cu.ft
Avg BMP Recharge Efficiency		95.0%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		94.0%	%
%Runoff Recharged		1.3%	%
%Rainfall Recharged		1.0%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	06/11/24	Bioretention Basin 58

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	6534.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	7.5	in
Upper level of the BMP surface (negative if above ground)	dBMPu	-9.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	0.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.92	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.73	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.72	in
Inches of Rainfall to capture	Pdesign	0.88	in
Recharge Provided Avg. over Imp. Area		21.9	in
Runoff Captured Avg. over imp. Area		27.3	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.10	unitless
BMP Volume	VBMP	4,068	cu.ft

Parameters from Annual Recharge Worksheet

Parameter	Symbol	Value	Unit
Post-D Deficit Recharge (or desired recharge volume)	Vdef	125,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	68,389	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	3.22	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.6	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		125,000	cu.ft
Avg BMP Recharge Efficiency		80.4%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		78.2%	%
%Runoff Recharged		1.7%	%
%Rainfall Recharged		1.3%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 59

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	17576.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	6.7	in
Upper level of the BMP surface (negative if above ground)	dBMPu	16.5	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	60.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.03	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.02	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	2.77	in
Inches of Rainfall to capture	Pdesign	3.00	in
Recharge Provided Avg. over Imp. Area		34.1	in
Runoff Captured Avg. over imp. Area		34.8	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.40	unitless
BMP Volume	VBMP	9,880	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	126,250	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	44,431	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.10	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.6	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		126,250	cu.ft
Avg BMP Recharge Efficiency		98.0%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		99.7%	%
%Runoff Recharged		1.7%	%
%Rainfall Recharged		1.4%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 60

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	11405.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	8.3	in
Upper level of the BMP surface (negative if above ground)	dBMPu	8.4	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	50.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.14	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.11	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.67	in
Inches of Rainfall to capture	Pdesign	1.90	in
Recharge Provided Avg. over Imp. Area		31.7	in
Runoff Captured Avg. over imp. Area		33.4	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.20	unitless
BMP Volume	VBMP	7,927	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	152,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	57,499	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.49	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.7	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		152,000	cu.ft
Avg BMP Recharge Efficiency		94.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		95.8%	%
%Runoff Recharged		2.1%	%
%Rainfall Recharged		1.6%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 61

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	2128.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	5.8	in
Upper level of the BMP surface (negative if above ground)	dBMPu	33.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	75.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.00	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.00	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	0.22	in
Inches of Rainfall to capture	Pdesign	0.29	in
Recharge Provided Avg. over Imp. Area		13.6	in
Runoff Captured Avg. over imp. Area		13.6	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.04	unitless
BMP Volume	VBMP	1,021	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	65,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	57,499	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.02	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.3	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		65,000	cu.ft
Avg BMP Recharge Efficiency		99.9%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		38.9%	%
%Runoff Recharged		0.9%	%
%Rainfall Recharged		0.7%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

Project Name	Description	Analysis Date	BMP or LID Type
Princeton Nurseries	0	04/14/25	UGB 62

Recharge BMP Input Parameters

Parameter	Symbol	Value	Unit
BMP Area	ABMP	16292.0	sq.ft
BMP Effective Depth, this is the design variable	dBMP	4.5	in
Upper level of the BMP surface (negative if above ground)	dBMPu	12.0	in
Depth of lower surface of BMP, must be>=dBMPu	dEXC	48.0	in
Post-development Land Segment Location of BMP , Input Zero if Location is distributed or undetermined	SegBMP	0	unitless

Root Zone Water capacity Calculated Parameters

Parameter	Symbol	Value	Unit
Empty Portion of RWC under Post-D Natural Recharge	ERWC	0.92	in
ERWC Modified to consider dEXC	EDRWC	0.13	in
Empty Portion of RWC under Infilt. BMP	RERWC	0.10	in

Recharge Design Parameters

Parameter	Symbol	Value	Unit
Inches of Runoff to capture	Qdesign	1.19	in
Inches of Rainfall to capture	Pdesign	1.41	in
Recharge Provided Avg. over Imp. Area		29.5	in
Runoff Captured Avg. over imp. Area		31.7	in

BMP Calculated Size Parameters

ABMP/Aimp	Aratio	0.27	unitless
BMP Volume	VBMP	6,051	cu.ft

Parameters from Annual Recharge Worksheet

Post-D Deficit Recharge (or desired recharge volume)	Vdef	150,000	cu.ft
Post-D Impervious Area (or target Impervious Area)	Aimp	60,984	sq.ft
Root Zone Water Capacity	RWC	3.22	in
RWC Modified to consider dEXC	DRWC	0.45	in
Climatic Factor	C-factor	1.43	no units
Average Annual P	Pavg	44.9	in
Recharge Requirement over Imp. Area	dr	0.7	in

System Performance Calculated Parameters

Annual BMP Recharge Volume		150,000	cu.ft
Avg BMP Recharge Efficiency		93.2%	Represents % Infiltration Recharged
%Rainfall became Runoff		77.7%	%
%Runoff Infiltrated		90.7%	%
%Runoff Recharged		2.1%	%
%Rainfall Recharged		1.6%	%

CALCULATION CHECK MESSAGES

Volume Balance-> OK
dBMP Check---> OK
dEXC Check---> OK

BMP Location---> Location is selected as distributed or undetermined

OTHER NOTES

Pdesign is accurate only after BMP dimensions are updated to make rech volume= deficit volume. The portion of BMP infiltration prior to filling and the area occupied by BMP are ignored in these calculations. Results are sensetive to dBMP, make sure dBMP selected is small enough for BMP to empty in less than 3 days. For land Segment Location of BMP if you select "impervious areas" RWC will be minimal but not zero as determined by the soil type and a shallow root zone for this Land Cover allowing consideration of lateral flow and other losses.

How to solve for different recharge volumes: By default the spreadsheet assigns the values of total deficit recharge volume "Vdef" and total proposed impervious area "Aimp" from the "Annual Recharge" sheet to "Vdef" and "Aimp" on this page. This allows solution for a single BMP to handle the entire recharge requirement assuming the runoff from entire impervious area is available to the BMP.
To solve for a smaller BMP or a LID-IMP to recharge only part of the recharge requirement, set Vdef to your target value and Aimp to impervious area directly connected to your infiltration facility and then solve for ABMP or dBMP. To go back to the default configuration clik the "Default Vdef & Aimp" button.

NJDEP Nonstructural Strategies Points System (NSPS)

Version: January 31, 2006

Note: Input Values in Yellow Cells Only

Project:	Princeton Nurseries
Date:	October 2, 2024
User:	BM
Notes:	

Step 1 - Provide Basic Major Development Site Information

A. Specify Total Area in Acres of Development Site Described in Steps 2 and 3 = 91.9 **Acres**

B. Specify by Percent the Various Planning Areas Located within the Development Site:

State Plan Planning Area:	PA-1	PA-2	PA-3	PA-4	PA-4B	PA-5	Total % Area
Percent of Each Planning Area within Site:		100.0%					100.0%

Note: See User's Guide for Equivalent Zones within Designated Centers and the NJ Meadowlands, Pinelands, and Highlands Districts

Step 2 - Describe Existing or Pre-Developed Site Conditions

A. Specify Existing Land Use/Land Cover Descriptions and Areas:

Site Segment	Land Use/Land Cover Description	Specify Land Use/Land Cover in Acres for Each HSG				Use/Cover Subtotals	Points
		HSG A	HSG B	HSG C	HSG D		
1	Wetlands and Undisturbed Stream Buffers					0.0	0
2	Lawn and Open Space		4.5	0.8		5.3	18
3	Brush and Shrub					0.0	0
4	Meadow, Pasture, Grassland, or Range		61.4	4.1		65.5	301
5	Row Crop					0.0	0
6	Small Grain and Legumes					0.0	0
7	Woods - Indigenous		16.2	3.0		19.2	92
8	Woods - Planted					0.0	0
9	Woods and Grass Combination					0.0	0
10	Ponds, Lakes, and Other Open Water					0.0	0
11	Gravel and Dirt					0.0	0
12	Porous and Permeable Paving					0.0	0
13	Directly Connected Impervious		1.9			1.9	0
14	Unconnected Impervious with Small D/S Pervious					0.0	0
15	Unconnected Impervious with Large D/S Pervious					0.0	0
	HSG Subtotals (Acres):	0.0	84.0	7.9	0.0	**Total Area:**	91.9
	HSG Subtotals (%):	0.0%	91.4%	8.6%	0.0%	**Total % Area:**	100.0%

Points Subtotal: **411**

Total Existing Site Points: **411**

Step 3 - Describe Proposed or Post-Developed Site Conditions

A. Specify Proposed Land Use/Land Cover Descriptions and Areas:

Site Segment	Land Use/Land Cover Description	Specify Land Use/Land Cover in Acres for Each HSG				Use/Cover Subtotals	Points
		HSG A	HSG B	HSG C	HSG D		
1	Wetlands and Undisturbed Stream Buffers					0.0	0
2	Lawn and Open Space		27.1	5.8		32.9	112
3	Brush and Shrub					0.0	0
4	Meadow, Pasture, Grassland, or Range					0.0	0
5	Row Crop					0.0	0
6	Small Grain and Legumes					0.0	0
7	Woods - Indigenous		2.2			2.2	11
8	Woods - Planted					0.0	0
9	Woods and Grass Combination					0.0	0
10	Ponds, Lakes, and Other Open Water					0.0	0
11	Gravel and Dirt					0.0	0
12	Porous and Permeable Paving					0.0	0
13	Directly Connected Impervious		54.7	2.1		56.8	0
14	Unconnected Impervious with Small D/S Pervious					0.0	0
15	Unconnected Impervious with Large D/S Pervious					0.0	0
	HSG Subtotals (Acres):	0.0	84.0	7.9	0.0	**Total Area:**	91.9
	HSG Subtotals (%):	0.0%	91.4%	8.6%	0.0%	**Total % Area:**	100.0%

Points Subtotal: **123**

B. Compare Proposed Impervious Coverage with Maximum Allowable Impervious Coverage:

Total Directly Connected Impervious Coverage =	62%	% of Site
Total Unconnected Impervious Coverage with Small D/S Pervious =	0%	% of Site
Total Unconnected Impervious Coverage with Large D/S Pervious =	0%	% of Site
Total Site Impervious Coverage =	62%	% of Site
Effective Site Impervious Coverage =	62%	% of Site
Specify Source of Maximum Allowable Impervious Coverage:	Table	(None or Table)
Allowable Site Impervious Cover from Maximum Impervious Cover Table:	66%	

Note: See Maximum Impervious Cover Table Worksheet for Details

Points Subtotal: 5

C. Compare Proposed Site Disturbance with Maximum Allowable Site Disturbance:

Total Proposed Site Disturbance =	96%	% of Site
Maximum Allowable Site Disturbance by Municipal Ordinance =	100%	% of Site

Points Subtotal: 3

D. Describe Proposed Runoff Conveyance System:

Total Length of Runoff Conveyance System =		Feet
Length of Vegetated Runoff Conveyance System =	0	Feet
% of Total Runoff Conveyance System That is Vegetated =	0%	

Points Subtotal: 0

E. Residential Lot Clustering:

Percent of Total Site Area that will be Clustered =		% of Site
Minimum Standard Lot Size as Per Zoning (Note: 1/2 Acre or Greater) =		Acres
Maximum Proposed Cluster Lot Size (Note:1/4 Acre or Less) =		Acres
Percent of Clustered Portion of Site to be Preserved as Vegetated Open Space =		% of Clustered Site Portion

Points Subtotal: 0

F. Will the Following be Utilized to Minimize Soil Compaction?

Proposed Lawn Areas will be Graded with Lightweight Construction Equipment:	Yes	(Yes or No)
Percent of Proposed Lawn Areas to be Graded with Such Equipment:	100%	% of Lawn Areas

Points Subtotal: 32

G. Are Any of the Following Stormwater Management Standards Met Using Only Nonstructural Strategies and Measures?

Groundwater Recharge Standards (NJAC 7:8-5.4-a-2):	Yes	(Yes or No)
Stormwater Runoff Quality Standards (NJAC 7:8-5.5):	Yes	(Yes or No)
Stormwater Runoff Quantity Standards (NJAC 7:8-5.4-a-3):	Yes	(Yes or No)

Points Subtotal: 391

Note: If the Answers to All Three Questions at G Above are "Yes", Adequate Nonstructural Measures have been Utilized.

Total Proposed Site Points: 553

Ratio of Proposed to Existing Site Points: 135%

Required Site Points Ratio: 95%

Nonstructural Point System Results: Proposed Nonstructural Measures are Adequate

Appendix F

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA												DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																	
I-393	I-394	0.13	0.47	0.06	0.06	10.0	10.0	25	5.74	0.36	0.36	RCP	0.015	15	15	15	0.50	4.0	3.2	9	2.0	3.0	0.7	10.7	80	117.10	114.08	113.68	3.0	19.0
I-394	I-395	0.32	0.73	0.24	0.30	10.0	10.0	25	5.74	1.36	1.72	RCP	0.015	15	15	15	0.50	4.0	3.2	43	3.1	6.8	0.1	10.1	10	116.60	113.68	113.63	2.9	17.8
I-395	I-396	0.24	0.57	0.13	0.43	10.0	10.0	25	5.74	0.78	2.49	RCP	0.015	15	15	15	0.50	4.0	3.2	63	3.4	8.6	0.6	10.6	130	116.60	113.63	112.98	3.0	18.4
I-396	I-397	0.24	0.71	0.17	0.60	10.0	10.0	25	5.74	0.97	3.46	RCP	0.015	15	15	15	0.50	4.0	3.2	88	3.6	10.8	0.0	10.0	10	116.60	112.98	112.93	3.6	26.2
I-397	UGB 60	0.56	0.89	0.50	1.10	10.0	10.0	25	5.74	2.87	6.34	RCP	0.015	18	18	18	1.00	9.1	5.2	70	5.5	11.0	0.0	10.0	5	116.30	112.68	112.63	3.6	22.9
I-398	I-399	0.17	0.64	0.11	0.11	10.0	10.0	25	5.74	0.65	0.65	RCP	0.015	15	15	15	0.50	4.0	3.2	24	2.6	4.9	0.1	10.1	21	116.60	113.68	113.58	2.9	17.8
I-399	I-400	0.17	0.65	0.11	0.22	10.0	10.0	25	5.74	0.65	1.30	RCP	0.015	15	15	15	0.50	4.0	3.2	88	3.6	10.8	0.6	10.6	130	116.60	113.58	112.93	3.0	19.0
I-400	I-401	0.18	0.63	0.11	0.34	10.0	10.0	25	5.74	0.64	1.94	RCP	0.015	15	15	15	0.50	4.0	3.2	49	3.2	7.4	0.1	10.1	10	116.60	112.93	112.88	3.7	26.8
I-401	UGB 54	0.41	0.82	0.34	0.67	10.0	10.0	25	5.74	1.94	3.88	RCP	0.015	15	15	15	0.50	4.0	3.2	98	3.7	12.0	0.0	10.0	5	116.10	112.88	112.86	3.2	21.4
I-313	I-406	0.45	0.81	0.36	0.36	10.0	10.0	25	5.74	2.10	2.10	RCP	0.015	15	15	15	0.50	4.0	3.2	53	3.3	7.8	0.5	10.5	105	117.10	113.58	113.06	3.5	25.0
I-406	I-405	0.30	0.56	0.17	0.53	10.0	10.0	25	5.74	0.96	3.06	RCP	0.015	15	15	15	0.50	4.0	3.2	77	3.5	9.8	0.0	10.0	10	117.23	113.06	113.01	4.2	32.8
I-405	I-404	0.32	0.54	0.17	0.70	10.0	10.0	25	5.74	0.99	4.05	RCP	0.015	18	18	18	0.50	6.4	3.6	63	3.8	10.3	0.6	10.6	130	117.40	112.76	112.11	4.6	35.2
I-404	UGB 56	0.29	0.56	0.16	0.86	10.0	10.0	25	5.74	0.95	5.00	RCP	0.015	18	18	18	0.50	6.4	3.6	78	4.0	11.9	0.1	10.1	13	117.40	112.11	112.05	5.3	43.0
I-533	UGB 57	0.36	0.82	0.06	0.06	10.0	10.0	25	5.74	0.35	0.35	RCP	0.015	15	15	15	0.50	4.0	3.2	9	2.0	3.0	0.2	10.2	30	115.51	111.25	111.10	4.3	33.9
I-402	MH-530	0.53	0.78	0.41	0.47	10.0	10.0	25	5.74	2.37	2.72	RCP	0.015	15	15	15	0.50	4.0	3.2	69	3.5	9.1	0.1	10.1	31	115.50	111.70	111.54	3.8	28.4
MH-530	UGB 57	0.00	0.00	0.41	0.47	10.0	10.0	25	5.74	2.37	2.72	RCP	0.015	15	15	15	0.50	4.0	3.2	69	3.5	9.1	0.1	10.1	12	116.29	111.54	111.10	4.8	39.8
I-285	UGB62	0.54	0.92	0.50	0.50	10.0	10.0	25	5.74	2.88	2.88	HDPE	0.012	15	15	15	0.50	4.9	4.0	58	4.2	8.2	0.1	10.1	25	113.10	108.45	108.00	4.6	38.5
I-286	I-287	0.22	0.95	0.21	0.71	10.0	10.0	25	5.74	1.24	4.12	RCP	0.015	18	18	18	0.50	6.4	3.6	64	3.8	10.4	0.3	10.3	60	113.00	109.59	109.29	3.4	20.4
I-287	I-407	0.46	0.92	0.43	1.14	10.0	10.0	25	5.74	2.47	6.58	RCP	0.015	24	24	24	0.50	13.9	4.4	47	4.3	11.6	0.3	10.3	65	113.00	108.79	108.47	4.2	23.5
I-407	UGB 62	0.33	0.83	0.28	1.42	10.0	10.0	25	5.74	1.61	8.19	RCP	0.015	24	24	24	0.50	13.9	4.4	59	4.6	13.2	0.0	10.0	7	113.50	108.47	108.44	5.0	33.4
I-288	UGB 61	0.58	0.89	0.52	0.52	10.0	10.0	25	5.74	2.99	2.99	RCP	0.015	15	15	15	0.50	4.0	3.2	24	2.6	4.9	0.1	10.1	14	113.75	108.32	108.25	5.4	47.9
I-292	UGB 63	1.03	0.98	1.01	1.01	10.0	10.0	25	5.74	5.83	5.83	RCP	0.015	15	15	15	0.50	4.0	3.2	147	3.7	12.3	0.0	10.0	7	109.07	104.54	104.50	4.5	37.1
OCS-526	MH-527	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	7.14	7.14	RCP	0.015	24	24	24	0.75	17.0	5.4	42	5.1	10.8	0.0	10.0	14	117.70	111.50	111.40	6.2	47.4
MH-527	MH-331	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	2.14	9.28	RCP	0.015	24	24	24	0.50	13.9	4.4	67	4.7	14.3	0.1	10.1	35	117.91	111.40	111.23	6.5	51.1
OCS-528	MH-331	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	4.08	4.08	RCP	0.015	15	15	15	0.50	4.0	3.2	103	3.7	12.3	0.1	10.1	12	117.48	111.60	111.54	5.9	53.3

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA											DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																
MH-331	MH-332	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	11.22	11.22	RCP	0.015	24	24	24	0.50	13.9	4.4	81	4.9	16.2	0.9	10.9	271	117.67	110.79	109.44	6.9	55.6
OCS-529	MH-332	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	2.18	2.18	RCP	0.015	18	18	18	0.50	6.4	3.6	34	3.3	7.2	0.0	10.0	8	118.04	110.50	110.25	7.5	70.0
OCS-534	MH-332	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	8.61	8.61	RCP	0.015	24	24	24	0.50	13.9	4.4	62	4.6	13.6	0.2	10.2	49	119.01	110.50	110.25	8.5	75.1
MH-322	MH-333	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	22.01	22.01	RCP	0.015	30	30	30	0.50	25.1	5.1	88	5.8	21.7	0.5	10.5	160	118.04	108.94	108.14	9.1	75.7
MH-333	MH-487	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	22.01	22.01	RCP	0.015	30	30	30	0.50	25.1	5.1	88	5.8	21.7	0.3	10.3	114	116.57	108.14	107.57	8.4	67.7
OCS-486	MH-487	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	2.31	4.49	RCP	0.015	30	30	30	0.50	25.1	5.1	18	3.8	8.5	0.0	10.0	10	114.26	108.25	108.25	6.0	38.6
OCS-532	MH-334	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	3.60	8.09	RCP	0.015	30	30	30	0.50	25.1	5.1	32	4.5	11.6	0.1	10.1	17	114.00	111.08	110.99	2.9	1.5
MH-487	MH-334	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	24.32	24.32	RCP	0.015	30	30	30	0.50	25.1	5.1	97	5.9	23.8	0.1	10.1	22	114.64	107.57	107.46	7.1	51.3
MH-334	MH-335	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	27.92	27.92	RCP	0.015	30	30	30	0.62	28.0	5.7	100	6.5	24.6	0.4	10.4	171	114.93	107.46	106.40	7.5	56.1
MH-335	MH-336	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	27.92	27.92	RCP	0.015	30	30	30	0.62	28.0	5.7	100	6.5	24.6	0.4	10.4	150	111.96	106.40	105.47	5.6	33.2
OCS-535	MH-336	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	7.63	7.63	RCP	0.015	18	18	18	0.50	6.4	3.6	119	4.2	14.8	0.1	10.1	25	110.62	104.50	104.37	6.1	52.9
MH-336	MH-338	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	35.55	35.55	RCP	0.015	36	36	36	0.90	54.8	7.8	65	8.2	21.0	0.3	10.3	158	110.53	99.64	98.06	10.9	90.7
MH-338	MH-212	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	35.55	35.55	RCP	0.015	36	36	36	1.13	61.4	8.7	58	9.0	19.6	0.3	10.3	165	103.06	98.06	96.19	5.0	20.0
MH-212	FES-213	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	51.31	51.31	RCP	0.015	42	34	53	0.35	51.6	5.4	99	6.2	34.0	0.4	10.4	162	101.64	96.19	95.62	5.5	27.6
I-193	I-537	0.27	0.69	0.19	0.19	10.0	10.0	25	5.74	1.09	1.09	RCP	0.015	18	14	23	0.30	5.0	2.8	22	2.2	5.7	0.2	10.2	27	94.14	91.50	91.42	2.6	15.5
I-537	I-178	0.63	0.67	0.42	0.61	10.0	10.0	25	5.74	2.41	3.50	RCP	0.015	18	14	23	0.30	5.0	2.8	70	3.0	11.0	0.4	10.4	80	94.23	91.42	91.18	2.8	17.6
I-178	I-194	0.33	0.65	0.22	0.82	10.0	10.0	25	5.74	1.25	4.75	RCP	0.015	18	14	23	0.30	5.0	2.8	95	3.2	14.0	0.1	10.1	24	94.59	91.18	91.11	3.4	24.8
I-194	FES-195	0.18	0.62	0.11	0.93	10.0	10.0	25	5.74	0.63	5.38	RCP	0.015	18	14	23	0.35	5.4	3.0	100	3.5	14.8	0.0	10.0	9	94.63	91.11	91.08	3.5	26.1
I-189	I-190	0.59	0.65	0.38	0.38	10.0	10.0	25	5.74	2.22	2.22	RCP	0.015	15	15	15	0.50	4.0	3.2	56	3.3	8.0	0.1	10.1	24	96.89	93.89	93.29	3.0	18.8
I-190	MH-191	0.23	0.66	0.15	0.54	10.0	10.0	25	5.74	0.87	3.12	RCP	0.015	15	15	15	0.50	4.0	3.2	79	3.6	10.0	0.6	10.6	120	96.90	93.29	93.23	3.6	26.1
MH-191	FES-192	0.00	0.00	0.00	0.54	10.0	10.0	25	5.74	0.00	3.12	RCP	0.015	15	15	15	0.50	4.0	3.2	79	3.6	10.0	0.1	10.1	21	97.07	93.89	93.23	3.2	20.9
I-327	I-326	0.43	0.68	0.29	0.29	10.0	10.0	25	5.74	1.70	1.70	RCP	0.015	15	15	15	0.50	4.0	3.2	43	3.1	6.8	0.2	10.2	32	98.18	95.26	95.10	2.9	17.8
I-326	FES-329	0.11	0.52	0.06	0.35	10.0	10.0	25	5.74	0.34	2.05	RCP	0.015	15	15	15	0.50	4.0	3.2	52	3.3	7.7	0.2	10.2	37	98.19	95.10	94.91	3.1	19.8
OCS-538	FES-541	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	12.59	RCP	0.015	24	24	24	0.59	15.1	4.8	84	5.4	16.7	0.4	10.4	132	95.96	92.26	91.48	3.7	17.4
I-267	I-266	0.43	0.88	0.38	0.38	10.0	10.0	25	5.74	2.20	2.20	RCP	0.015	15	15	15	0.50	4.0	3.2	55	3.3	7.9	0.3	10.3	51	115.33	111.36	111.11	4.0	30.4

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA											DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																
I-266	MH-269	0.43	0.88	0.38	0.38	10.0	10.0	25	5.74	2.20	2.20	RCP	0.015	15	15	15	0.50	4.0	3.2	55	3.3	7.9	0.4	10.4	77	114.93	111.11	110.72	3.8	28.6
MH-269	UGB 32	0.22	0.74	0.16	0.54	10.0	10.0	25	5.74	0.93	3.13	RCP	0.015	15	15	15	0.50	4.0	3.2	79	3.6	10.0	0.2	10.2	38	115.72	110.72	110.53	5.0	42.8
I-278	UGB 32	0.23	0.62	0.14	0.14	10.0	10.0	25	5.74	0.84	0.84	RCP	0.015	15	15	15	0.83	5.1	4.2	16	3.0	4.0	0.1	10.1	10	113.90	110.98	110.90	2.9	17.8
I-502	UGB 32	0.21	0.63	0.13	0.13	10.0	10.0	25	5.74	0.77	0.77	RCP	0.015	15	15	15	0.50	4.0	3.2	20	2.5	4.5	0.1	10.1	8	117.55	110.29	110.25	7.3	69.9
I-277	MH-419	0.08	0.92	0.07	0.07	10.0	10.0	25	5.74	0.43	0.43	RCP	0.015	15	15	15	0.50	4.0	3.2	11	2.1	3.3	1.0	11.0	126	115.66	112.33	111.53	3.3	22.7
MH-419	UGB 32	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.43	0.43	RCP	0.015	15	15	15	0.50	4.0	3.2	11	2.1	3.3	0.1	10.1	15	118.31	111.53	111.38	6.8	64.1
I-256	UGB 34	0.31	0.78	0.24	0.24	10.0	10.0	25	6.60	1.62	1.62	RCP	0.015	15	15	15	0.50	4.0	3.2	41	3.0	6.7	0.0	10.0	9	114.67	110.04	110.00	4.6	38.3
I-258	UGB 34	0.17	0.85	0.15	0.15	10.0	10.0	25	5.74	0.85	0.85	RCP	0.015	15	15	15	0.50	4.0	3.2	21	2.5	4.6	0.1	10.1	11	114.67	110.05	110.00	4.6	38.2
I-260	UGB 33	0.29	0.81	0.23	0.23	10.0	10.0	25	5.74	1.34	1.34	RCP	0.015	15	15	15	0.50	4.0	3.2	34	2.9	6.0	0.0	10.0	6	110.85	107.90	107.87	2.9	18.1
I-262	UGB 33	0.16	0.84	0.13	0.13	10.0	10.0	25	5.74	0.77	0.77	RCP	0.015	15	15	15	0.50	4.0	3.2	20	2.5	4.5	0.1	10.1	8	110.99	107.90	107.86	3.1	19.8
I-325	I-182	0.16	0.58	0.09	0.09	10.0	10.1	25	5.74	0.53	0.53	RCP	0.015	15	15	15	0.50	4.0	3.2	13	2.2	3.5	0.2	10.3	27	111.00	103.50	103.37	7.5	72.8
I-182	I-184	0.35	0.73	0.25	0.34	10.0	10.3	25	5.74	1.46	1.99	RCP	0.015	15	15	15	2.12	8.2	6.6	24	5.4	4.9	0.3	10.6	106	111.00	103.37	101.11	7.6	74.3
I-184	FES-183	0.07	0.72	0.05	0.39	10.0	10.0	25	5.74	0.28	2.27	RCP	0.015	15	15	15	2.00	7.9	6.5	29	5.5	5.5	0.1	10.1	48	104.03	97.96	97.00	6.1	55.6
I-242	I-243	0.52	0.66	0.34	0.34	10.0	10.0	25	5.74	1.98	1.98	RCP	0.015	15	15	15	0.50	4.0	3.2	50	3.2	7.5	0.1	10.1	20	108.46	102.45	102.35	6.0	54.9
I-243	I-238	0.43	0.63	0.27	0.61	10.0	10.0	25	5.74	1.56	3.54	RCP	0.015	15	15	15	0.50	4.0	3.2	89	3.6	11.0	0.2	10.2	48	108.33	102.35	102.11	6.0	54.5
I-238	I-180	0.30	0.61	0.18	0.79	10.0	10.0	25	5.74	1.05	4.59	RCP	0.015	15	15	15	0.50	4.0	3.2	116	3.7	12.3	0.1	10.1	22	107.83	102.11	102.00	5.7	51.4
I-180	FES-181	0.43	0.56	0.24	1.03	10.0	10.0	25	5.74	1.39	5.98	RCP	0.015	15	15	15	0.65	4.5	3.7	132	4.2	12.3	0.5	10.5	114	107.83	102.00	101.26	5.8	52.7
I-252	UGB 35	0.44	0.76	0.34	0.34	10.0	10.0	25	5.74	1.94	1.94	RCP	0.015	15	15	15	0.50	4.0	3.2	49	3.2	7.4	0.0	10.0	9	108.80	105.89	105.85	2.9	17.7
I-254	UGB 35	0.10	0.69	0.07	0.07	10.0	10.0	25	5.74	0.41	0.41	RCP	0.015	15	15	15	0.50	4.0	3.2	10	2.0	3.1	0.1	10.1	10	110.18	105.09	105.04	5.1	43.8
I-239	I-240	0.18	0.67	0.12	0.19	10.0	10.0	25	5.74	0.68	1.09	RCP	0.015	15	15	15	0.50	4.0	3.2	27	2.7	5.3	0.1	10.1	21	101.99	99.07	98.97	2.9	17.8
I-240	FES-237	0.23	0.67	0.16	0.34	10.0	10.0	25	5.74	0.90	xref	RCP	0.015	15	15	15	0.61	4.4	3.6	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	25	101.97	98.97	98.81	3.0	18.8
I-236	I-235	0.22	0.70	0.16	0.16	10.0	10.0	25	5.74	0.90	0.90	RCP	0.015	15	15	15	0.50	4.0	3.2	23	2.6	4.8	0.1	10.1	22	101.01	98.09	97.98	2.9	17.8
I-235	I-477	0.55	0.75	0.41	0.57	10.0	10.0	25	5.74	2.37	3.28	RCP	0.015	15	15	15	1.12	5.9	4.8	55	4.9	7.9	0.2	10.2	45	101.01	97.98	97.47	3.0	19.1
I-477	MH-478	0.05	0.54	0.02	0.59	10.0	10.0	25	5.74	0.14	3.42	RCP	0.015	15	15	15	0.50	4.0	3.2	86	3.6	10.6	0.1	10.1	26	100.39	97.47	97.34	2.9	17.8
MH-478	UGB 31	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	3.42	RCP	0.015	15	15	15	1.00	5.6	4.6	61	4.8	8.4	0.0	10.0	14	102.79	93.65	93.10	9.1	92.4

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA											DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																
I-221	I-219	0.07	0.68	0.05	0.64	10.0	10.0	25	5.74	0.28	3.70	RCP	0.015	15	15	15	0.50	4.0	3.2	94	3.7	11.5	0.1	10.1	20	107.18	104.28	104.18	2.9	17.6
I-219	UGB 44	0.17	0.72	0.12	0.77	10.0	10.0	25	5.74	0.72	4.43	RCP	0.015	15	15	15	0.65	4.5	3.7	98	4.2	12.0	0.3	10.3	72	107.18	104.18	103.71	3.0	18.8
I-431	I-432	0.15	0.44	0.07	0.07	10.0	10.0	25	5.74	0.39	0.39	RCP	0.015	15	15	15	2.92	9.6	7.8	4	3.6	1.9	0.4	10.4	94	105.84	101.58	98.84	4.3	33.9
I-432	UGB 43	0.14	0.60	0.08	0.15	10.0	10.0	25	5.74	0.49	0.88	RCP	0.015	15	15	15	0.50	4.0	3.2	22	2.5	4.7	0.0	10.0	5	102.95	98.83	98.81	4.1	32.2
I-215	I-214	0.31	0.65	0.20	0.36	10.0	10.0	25	5.74	1.18	2.06	RCP	0.015	15	15	15	0.50	4.0	3.2	52	3.3	7.7	0.1	10.1	20	100.76	97.44	97.34	3.3	22.6
I-214	UGB 42	0.45	0.66	0.30	0.65	10.0	10.0	25	5.74	1.71	3.77	RCP	0.015	15	15	15	1.50	6.9	5.6	55	5.7	7.9	0.1	10.1	46	100.26	97.34	96.65	2.9	17.8
I-205	I-206	0.72	0.66	0.48	0.48	10.0	10.0	25	5.74	2.79	2.79	RCP	0.015	15	15	15	0.50	4.0	3.2	70	3.5	9.2	0.1	10.1	22	96.07	93.15	93.04	2.9	17.8
OCS-504	MH-421	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	18.02	RCP	0.015	24	24	24	1.00	19.6	6.2	92	7.1	18.1	0.1	10.1	50	117.81	109.20	108.70	8.6	76.3
OCS-505	MH-421	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	1.88	RCP	0.015	15	15	15	0.50	4.0	3.2	47	3.2	7.2	0.1	10.1	10	113.03	110.00	109.95	3.0	19.1
MH-421	UGB 33	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	19.90	RCP	0.015	24	24	24	2.09	28.3	9.0	70	9.7	14.7	0.1	10.1	64	113.20	109.20	107.86	4.0	21.0
OCS-426	MH-427	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	22.34	RCP	0.015	24	24	24	2.00	27.7	8.8	81	9.8	16.2	0.1	10.1	52	110.94	106.08	95.71	4.9	31.3
MH-427	MH-378	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	22.34	RCP	0.015	24	24	24	4.58	42.0	13.4	53	13.5	12.4	0.3	10.3	204	110.70	105.05	95.71	5.7	40.8
OCS-377	MH-378	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	15.23	RCP	0.015	30	30	30	0.30	19.5	4.0	78	4.4	19.8	0.4	10.4	115	99.80	95.55	95.21	4.3	17.5
MH-378	MH-379	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	37.57	RCP	0.015	36	36	36	0.45	38.8	5.5	97	6.3	28.5	0.1	10.1	42	108.68	94.71	94.52	14.0	127.6
OCS-506	MH-379	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	18.64	RCP	0.015	24	24	24	2.00	27.7	8.8	67	9.4	14.3	0.1	10.1	46	108.59	104.00	103.08	4.6	28.1
MH-379	MH-380	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	56.21	RCP	0.015	42	42	42	0.45	58.5	6.1	96	7.0	33.0	0.4	10.4	165	108.77	94.26	93.51	14.5	127.6
OCS-382	MH-380	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	10.43	RCP	0.015	18	18	18	2.00	12.9	7.3	81	8.1	12.2	0.1	10.1	53	101.04	97.00	95.94	4.0	28.0
MH-380	MH-481	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	66.64	RCP	0.015	48	48	48	0.30	68.2	5.4	98	6.2	38.4	0.3	10.3	103	103.08	93.01	92.70	10.1	67.8
OCS-480	MH-481	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	4.01	RCP	0.015	15	15	15	0.60	4.3	3.5	92	4.0	11.3	0.1	10.1	20	100.38	93.10	92.93	7.3	70.1
MH-481	MH-384	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	70.65	RCP	0.015	48	48	48	0.35	73.6	5.9	96	6.7	37.7	0.4	10.4	156	100.42	92.70	92.16	7.7	39.6
OCS-521	MH-384	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	6.76	RCP	0.015	15	15	15	1.50	6.9	5.6	99	6.4	12.2	0.1	10.1	46	98.94	95.50	94.81	3.4	24.0
MH-384	MH-381	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	77.41	RCP	0.015	48	38	60	0.40	78.7	6.3	98	7.2	38.4	0.4	10.4	152	98.48	92.16	91.55	6.3	33.7
I-206	MH-381	0.22	0.60	0.13	0.61	10.0	10.0	25	5.74	0.75	3.54	RCP	0.015	15	15	15	0.45	3.8	3.1	94	3.5	11.5	0.0	10.0	6	96.07	93.04	93.01	3.0	19.1
MH-381	HW 207	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	80.95	RCP	0.015	48	38	60	0.69	103.4	8.2	78	9.0	31.6	0.0	10.0	21	96.68	91.55	91.41	5.1	19.4
OCS-522	UGB 43	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	1.79	RCP	0.015	15	15	15	1.00	5.6	4.6	32	4.0	5.8	0.1	10.1	19	106.12	101.50	101.31	4.6	38.2

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA												DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																	
OCS-523	I-200	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	3.46	RCP	0.015	18	18	18	1.27	10.3	5.8	34	5.2	7.2	0.2	10.2	69	103.03	98.50	97.62	4.5	33.9
I-200	I-199	0.24	0.65	0.16	0.16	10.0	10.0	25	5.74	0.90	4.36	RCP	0.015	18	18	18	0.50	6.4	3.6	68	3.9	10.8	0.1	10.1	20	100.56	97.62	97.52	2.9	14.8
I-199	I-224	0.20	0.56	0.11	0.11	10.0	10.0	25	5.74	0.64	5.01	RCP	0.015	18	18	18	0.50	6.4	3.6	78	4.0	11.9	0.3	10.3	78	101.10	97.52	97.13	3.6	22.5
I-224	I-225	0.24	0.61	0.15	0.15	10.0	10.0	25	5.74	0.84	5.85	RCP	0.015	18	18	18	0.50	6.4	3.6	91	4.1	13.4	0.1	10.1	32	99.62	97.13	96.97	2.5	9.4
I-225	I-413	0.04	0.52	0.02	0.02	10.0	10.0	25	5.74	0.11	5.96	RCP	0.015	18	18	18	0.50	6.4	3.6	93	4.1	13.7	0.2	10.2	62	99.62	96.97	96.66	2.7	11.3
I-413	FES-226	0.07	0.49	0.03	0.03	10.0	10.0	25	5.74	0.18	6.14	RCP	0.015	18	18	18	0.50	6.4	3.6	95	4.2	14.0	0.1	10.1	33	101.36	96.66	96.50	4.7	35.9
I-318	I-247	0.04	0.36	0.01	0.05	10.0	10.0	25	5.74	0.08	0.27	RCP	0.015	15	15	15	0.51	4.0	3.3	7	1.8	2.6	1.3	11.3	140	115.89	109.96	109.24	5.9	53.9
I-244	I-245	0.27	0.74	0.20	0.20	10.0	10.0	25	5.74	1.16	1.16	RCP	0.015	15	15	15	0.50	4.0	3.2	29	2.8	5.5	0.2	10.2	32	112.95	110.03	109.87	2.9	17.8
I-245	I-247	0.13	0.63	0.08	0.28	10.0	10.0	25	5.74	0.46	1.63	RCP	0.015	15	15	15	0.67	4.6	3.7	35	3.4	6.1	0.5	10.5	93	112.81	109.87	109.24	2.9	18.0
I-247	I-470	0.16	0.77	0.12	0.45	10.0	10.0	25	5.74	0.70	2.60	RCP	0.015	15	15	15	0.79	5.0	4.1	52	4.1	7.7	0.3	10.3	74	114.04	109.24	108.66	4.8	40.4
I-470	I-471	0.10	0.85	0.08	0.53	10.0	10.0	25	5.74	0.49	3.08	RCP	0.015	15	15	15	0.50	4.0	3.2	78	3.5	9.9	0.1	10.1	20	113.03	108.66	108.56	4.4	35.2
I-471	UGB 47	0.11	0.64	0.07	0.60	10.0	10.0	25	5.74	0.40	3.48	RCP	0.015	15	15	15	0.50	4.0	3.2	88	3.6	10.8	0.1	10.1	12	113.03	108.56	108.50	4.5	36.4
I-249	I-248	0.04	0.72	0.03	0.03	10.0	10.0	25	5.74	0.14	0.14	RCP	0.015	15	15	15	0.50	4.0	3.2	4	1.5	1.9	0.4	10.4	32	111.39	108.47	108.31	2.9	17.8
I-248	MH-476	0.04	0.63	0.02	0.05	10.0	10.0	25	5.74	0.13	0.27	RCP	0.015	15	15	15	0.50	4.0	3.2	7	1.8	2.6	0.4	10.4	45	111.38	108.31	108.09	3.1	19.6
I-322	I-320	0.22	0.66	0.15	0.15	10.0	10.0	25	5.74	0.86	0.86	RCP	0.015	15	15	15	0.50	4.0	3.2	22	2.5	4.7	0.2	10.2	38	108.36	104.85	104.66	3.5	24.9
I-320	UGB 46	0.21	0.80	0.17	0.32	10.0	10.0	25	5.74	0.99	1.85	RCP	0.015	15	15	15	0.50	4.0	3.2	47	3.2	7.2	0.1	10.1	20	108.85	104.66	104.56	4.2	33.0
I-319	MH-323	0.05	0.80	0.04	0.04	10.0	10.0	25	5.74	0.24	0.24	RCP	0.015	15	15	15	3.28	10.1	8.3	2	3.3	1.5	0.1	10.1	22	107.51	104.59	103.87	2.9	17.8
I-227	I-228	0.21	0.80	0.17	0.17	10.0	10.0	25	5.74	0.96	0.96	RCP	0.015	15	15	15	0.50	4.0	3.2	24	2.6	4.9	0.2	10.2	32	104.10	100.30	100.14	3.8	28.4
I-228	MH-323	0.20	0.77	0.16	0.32	10.0	10.0	25	5.74	0.90	1.87	RCP	0.015	15	15	15	0.50	4.0	3.2	47	3.2	7.2	0.5	10.5	87	104.09	100.14	99.71	4.0	30.2
MH-323	UGB 50	0.00	0.00	0.00	0.36	10.0	10.0	25	5.74	0.00	2.10	RCP	0.015	15	15	15	0.50	4.0	3.2	53	3.3	7.8	0.1	10.1	21	106.80	99.71	99.61	7.1	67.8
I-229	OCS-230	0.38	0.70	0.27	0.27	10.0	10.0	25	5.74	1.56	1.56	RCP	0.015	15	15	15	0.75	4.8	4.0	32	3.5	5.8	0.1	10.1	20	108.54	105.58	105.43	3.0	18.3
I-232	MH-375	0.19	0.74	0.14	0.14	10.0	10.0	25	5.74	0.80	0.80	RCP	0.015	15	15	15	2.00	7.9	6.5	10	4.1	3.1	0.1	10.1	21	103.95	100.62	100.20	3.3	22.7
OCS-507	MH-474	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	3.81	RCP	0.015	15	15	15	0.50	4.0	3.2	96	3.7	11.8	0.1	10.1	23	113.49	108.50	108.39	5.0	42.6
MH-474	MH-475	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	3.81	RCP	0.015	15	15	15	0.50	4.0	3.2	96	3.7	11.8	0.1	10.1	28	113.21	108.39	108.25	4.8	40.6
MH-475	MH-476	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	3.81	RCP	0.015	15	15	15	0.50	4.0	3.2	96	3.7	11.8	0.5	10.5	116	112.99	108.25	107.67	4.7	39.6

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA											DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																
MH-476	OCS-230	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	4.08	RCP	0.015	15	15	15	1.58	7.0	5.7	58	5.9	8.2	0.4	10.4	159	111.34	106.25	103.75	5.1	43.8
OCS-230	OCS-524	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	9.04	RCP	0.015	18	18	18	1.10	9.5	5.4	95	6.2	14.0	0.3	10.3	114	108.35	103.50	102.24	4.8	37.7
OCS-524	MH-375	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	12.80	RCP	0.015	24	24	24	2.11	28.5	9.1	45	8.8	11.3	0.2	10.2	109	106.27	101.74	99.45	4.5	27.4
MH-375	I-233	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	13.61	RCP	0.015	24	24	24	0.50	13.9	4.4	98	5.1	19.2	0.0	10.0	10	104.65	99.45	99.40	5.2	35.4
I-233	I-208	0.11	0.89	0.09	0.09	10.0	10.0	25	5.74	0.54	14.15	RCP	0.015	24	24	24	0.55	14.5	4.6	97	5.3	19.0	0.2	10.2	49	103.44	99.40	99.13	4.0	21.5
I-208	I-209	0.03	0.58	0.02	0.02	10.0	10.0	25	5.74	0.10	14.25	RCP	0.015	24	24	24	0.55	14.5	4.6	98	5.3	19.2	0.1	10.1	20	103.30	99.13	99.02	4.2	23.0
I-209	I-210	0.10	0.59	0.06	0.06	10.0	10.0	25	5.74	0.35	14.60	RCP	0.015	24	24	24	1.99	27.7	8.8	53	8.9	12.4	0.2	10.2	82	102.77	99.02	97.38	3.8	18.0
I-210	I-211	0.25	0.80	0.20	0.20	10.0	10.0	25	5.74	1.16	15.76	RCP	0.015	24	24	24	0.70	16.4	5.2	96	6.0	18.8	0.1	10.1	22	101.13	97.38	97.23	3.8	18.0
I-211	MH-212	0.19	0.72	0.14	0.14	10.0	10.0	25	5.74	0.80	16.57	RCP	0.015	24	24	24	0.75	17.0	5.4	98	6.2	19.2	0.0	10.0	5	101.04	97.23	97.19	3.8	18.7
MH-212	FES 213	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	24.20	RCP	0.015	42	34	53	0.35	51.6	5.4	47	5.3	20.2	0.5	10.5	162	102.06	96.19	95.62	5.9	32.6
BASIN 45	FES 418	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	49.82	RCP	0.015	36	36	36	1.00	57.8	8.2	86	9.2	25.5	0.3	10.3	138	99.00	95.81	94.43	3.2	-1.7
BASIN 30	EXIST	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	87.41	RCP	0.015	42	42	42	1.18	94.7	9.8	92	11.2	31.7	0.2	10.2	134	95.00	91.40	89.82	3.6	-3.3
BASIN 28	EXIST	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	15.48	RCP	0.015	24	24	24	0.82	17.8	5.7	87	6.4	17.2	0.1	10.1	31	95.00	91.00	90.75	4.0	21.0
I-304	UGB 10	0.18	0.74	0.13	0.13	10.0	10.0	25	5.74	0.77	0.77	RCP	0.015	15	15	15	0.50	4.0	3.2	19	2.4	4.4	0.0	10.0	6	111.37	106.53	106.50	4.8	40.8
I-70	UGB 10	0.60	0.84	0.50	0.50	10.0	10.0	25	5.74	2.90	2.90	RCP	0.015	15	15	15	0.50	4.0	3.2	73	3.5	9.4	0.0	10.0	7	111.30	106.53	106.50	4.8	40.0
I-75	I-76	0.24	0.51	0.12	0.12	10.0	10.0	25	5.74	0.71	0.71	RCP	0.015	15	15	15	0.50	4.0	3.2	18	2.4	4.2	0.2	10.2	32	105.13	102.21	102.05	2.9	17.8
I-76	UGB 7	0.74	0.66	0.48	0.61	10.0	10.0	25	5.74	2.79	3.50	RCP	0.015	15	15	15	0.50	4.0	3.2	88	3.6	10.8	0.1	10.1	21	105.13	102.05	101.95	3.1	19.7
I-575	I-572	0.08	0.50	0.04	0.04	10.0	10.0	25	5.74	0.23	0.23	RCP	0.015	15	15	15	0.50	4.0	3.2	6	1.7	2.4	0.2	10.2	20	103.61	99.68	99.58	3.9	29.9
I-572	UGB 7	0.13	0.67	0.09	0.13	10.0	10.0	25	5.74	0.51	0.74	RCP	0.015	15	15	15	0.50	4.0	3.2	19	2.4	4.4	0.1	10.1	17	103.61	99.58	99.50	4.0	31.1
I-71	UGB 9	0.03	0.71	0.02	0.02	10.0	10.0	25	5.74	0.14	0.14	RCP	0.015	15	15	15	0.50	4.0	3.2	4	1.5	1.9	0.1	10.1	5	106.59	100.82	100.80	5.8	52.0
I-74	UGB 9	0.05	0.71	0.03	0.03	10.0	10.0	25	5.74	0.20	0.20	RCP	0.015	15	15	15	0.50	4.0	3.2	5	1.6	2.1	0.1	10.1	6	106.60	100.83	100.80	5.8	52.0
I-72	UGB 9	0.38	0.69	0.26	0.26	10.0	10.0	25	5.74	1.50	1.50	RCP	0.015	15	15	15	0.50	4.0	3.2	38	3.0	6.4	0.2	10.2	43	103.92	101.02	100.80	2.9	17.6
I-89	I-85	0.22	0.74	0.16	0.16	10.0	10.0	25	5.74	0.93	0.93	RCP	0.015	15	15	15	0.50	4.0	3.2	23	2.6	4.8	0.2	10.2	33	98.62	95.75	95.59	2.9	17.2
UGB 9	I-85	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	6.36	RCP	0.015	18	18	18	2.56	14.6	8.2	44	7.9	8.3	0.4	10.4	213	105.42	100.80	95.34	4.6	34.9
I-85	UGB 6	0.24	0.74	0.18	0.34	10.0	10.0	25	5.74	1.03	8.31	RCP	0.015	18	18	18	0.85	8.4	4.7	99	5.5	14.6	0.0	10.0	11	98.32	95.34	95.25	3.0	15.3

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA												DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																	
I-87	UGB 6	0.30	0.63	0.19	0.19	10.0	10.0	25	5.74	1.08	1.08	RCP	0.015	15	15	15	0.50	4.0	3.2	27	2.7	5.3	0.1	10.1	13	99.43	95.32	95.26	4.1	32.1
I-79	I-80	0.10	0.54	0.05	0.05	10.0	10.0	25	5.74	0.31	0.31	RCP	0.015	15	15	15	0.50	4.0	3.2	8	1.9	2.8	0.3	10.3	32	99.66	94.76	94.60	4.9	41.5
I-80	MH-81	0.23	0.70	0.16	0.21	10.0	10.0	25	5.74	0.92	1.23	RCP	0.015	15	15	15	0.50	4.0	3.2	31	2.8	5.7	0.1	10.1	13	99.66	94.60	94.54	5.1	43.5
MH-81	UGB 5	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	1.23	RCP	0.015	15	15	15	0.50	4.0	3.2	31	2.8	5.7	0.0	10.0	7	100.48	94.54	94.50	5.9	54.0
I-83	UGB 5	0.21	0.68	0.14	0.14	10.0	10.0	25	5.74	0.81	0.81	RCP	0.015	15	15	15	1.51	6.9	5.6	12	3.7	3.4	0.0	10.0	8	98.83	94.62	94.50	4.2	33.3
I-94	MH-461	0.13	0.56	0.07	0.07	10.0	10.0	25	5.74	0.42	0.42	RCP	0.015	15	15	15	0.50	4.0	3.2	11	2.1	3.3	0.1	10.1	11	91.59	88.68	88.63	2.9	17.7
I-95	MH-461	0.26	0.75	0.19	0.19	10.0	10.0	25	5.74	1.13	1.13	RCP	0.015	15	15	15	0.50	4.0	3.2	28	2.7	5.4	0.1	10.1	11	91.60	88.68	88.63	2.9	17.8
UGB 10	MH-459	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	9.10	RCP	0.015	18	18	18	1.60	11.5	6.5	79	7.2	12.0	0.4	10.4	177	111.91	106.50	103.67	5.4	44.4
MH-459	MH-520	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	9.10	RCP	0.015	18	18	18	3.04	15.9	9.0	57	9.2	9.7	0.2	10.2	114	109.08	103.67	100.21	5.4	44.4
UGB 7	MH-520	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	6.14	RCP	0.015	15	15	15	1.68	7.3	5.9	85	6.6	10.5	0.1	10.1	27	106.51	99.50	99.05	7.0	66.9
MH-520	MH-460	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	15.24	RCP	0.015	24	24	24	1.69	25.5	8.1	60	8.4	13.3	0.4	10.4	192	106.16	98.30	95.06	7.9	67.3
UGB 5	MH-460	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	2.47	RCP	0.015	15	15	15	0.50	4.0	3.2	62	3.4	8.5	0.2	10.2	42	100.81	94.50	94.29	6.3	58.5
MH-460	MH-461	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	18.93	RCP	0.015	24	24	24	1.92	27.2	8.6	70	9.3	14.7	0.5	10.5	259	100.75	92.83	87.86	7.9	68.0
MH-461	MH-462	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	20.48	RCP	0.015	24	24	24	2.00	27.7	8.8	74	9.6	15.2	0.2	10.2	126	91.81	87.87	85.35	3.9	20.3
MH-462	FES 463	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	30.70	RCP	0.015	30	30	30	2.60	57.3	11.7	54	11.9	15.7	0.0	10.0	30	87.77	77.80	77.00	10.0	86.1
I-300	UGB 4	0.22	0.68	0.15	0.15	10.0	10.0	25	5.74	0.86	0.86	RCP	0.015	15	15	15	0.50	4.0	3.2	22	2.5	4.7	0.1	10.1	14	92.00	85.67	85.60	6.3	58.7
I-99	I-96	0.08	0.82	0.06	0.06	10.0	10.0	25	5.74	0.36	0.36	RCP	0.015	15	15	15	0.50	4.0	3.2	9	2.0	3.0	0.3	10.3	32	95.52	92.59	92.43	2.9	17.9
I-96	I-97	0.06	0.76	0.05	0.11	10.0	10.0	25	5.74	0.26	0.62	RCP	0.015	15	15	15	3.78	10.9	8.9	6	4.7	2.4	0.4	10.4	111	95.51	92.43	88.23	3.1	19.7
I-569	I-97	0.23	0.69	0.16	0.16	10.0	10.0	25	5.74	0.93	0.93	RCP	0.015	15	15	15	0.50	4.0	3.2	24	2.6	4.9	0.4	10.4	67	89.40	86.48	86.15	2.9	17.8
I-97	UGB 4B	0.15	0.81	0.12	0.39	10.0	10.0	25	5.74	0.70	2.26	RCP	0.015	15	15	15	2.03	8.0	6.5	28	5.5	5.4	0.1	10.1	27	91.16	86.15	85.60	5.0	42.9
I-567	UGB 4B	0.23	0.35	0.08	0.08	10.0	10.0	25	5.74	0.46	0.46	RCP	0.015	15	15	15	0.50	4.0	3.2	12	2.1	3.4	0.1	10.1	7	89.96	85.63	85.60	4.3	34.7
I-302	UGB 4B	0.18	0.67	0.12	0.12	10.0	10.0	25	5.74	0.71	0.71	RCP	0.015	15	15	15	0.50	4.0	3.2	18	2.4	4.2	0.1	10.1	13	92.00	85.66	85.60	6.3	58.8
I-57	I-58	0.25	0.67	0.16	0.16	10.0	10.0	25	5.74	0.95	0.95	RCP	0.015	15	15	15	2.00	7.9	6.5	12	4.3	3.4	0.3	10.3	88	111.88	104.37	102.61	7.5	72.9
I-61	I-58	0.21	0.70	0.15	0.15	10.0	10.0	25	5.74	0.86	0.86	RCP	0.015	15	15	15	1.50	6.9	5.6	12	3.7	3.4	0.1	10.1	22	106.29	102.94	102.61	3.4	23.0
I-58	I-59	0.28	0.69	0.19	0.51	10.0	10.0	25	5.74	1.12	2.93	RCP	0.015	15	15	15	2.12	8.2	6.6	36	6.1	6.2	0.3	10.3	101	106.15	102.61	100.47	3.5	25.2

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA											DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																
I-62	I-59	0.37	0.71	0.26	0.26	10.0	10.0	25	5.74	1.53	1.53	RCP	0.015	15	15	15	0.50	4.0	3.2	39	3.0	6.5	0.1	10.1	22	103.50	100.58	100.47	2.9	17.8
I-59	I-368	0.40	0.72	0.29	1.06	10.0	10.0	25	5.74	1.67	6.12	RCP	0.015	15	15	15	2.93	9.6	7.8	64	8.2	8.7	0.2	10.2	122	103.50	100.47	96.90	3.0	19.1
I-364	I-368	0.19	0.67	0.13	0.13	10.0	10.0	25	5.74	0.74	0.74	RCP	0.015	15	15	15	0.50	4.0	3.2	19	2.4	4.4	0.2	10.2	32	99.98	97.06	96.90	2.9	17.8
I-368	BASIN 16	0.08	0.64	0.05	1.24	10.0	10.0	25	5.74	0.29	7.15	RCP	0.015	18	18	18	1.00	9.1	5.2	79	5.7	12.0	0.1	10.1	34	99.98	96.65	96.31	3.3	19.5
I-50	I-51	0.20	0.63	0.13	0.13	10.0	10.0	25	5.74	0.74	0.74	RCP	0.015	15	15	15	0.50	4.0	3.2	19	2.4	4.4	0.1	10.1	20	95.63	92.71	92.61	2.9	17.8
I-51	MH-52	0.54	0.71	0.38	0.51	10.0	10.0	25	5.74	2.20	2.94	RCP	0.015	15	15	15	0.50	4.0	3.2	74	3.5	9.5	0.3	10.3	67	95.63	92.61	92.28	3.0	19.0
I-54	I-55	0.30	0.73	0.22	0.22	10.0	10.0	25	5.74	1.27	1.27	RCP	0.015	15	15	15	0.30	3.1	2.5	42	2.4	6.8	0.2	10.2	22	95.32	92.46	92.39	2.9	17.1
I-55	MH-52	0.10	0.60	0.06	0.28	10.0	10.0	25	5.74	0.36	1.63	RCP	0.015	15	15	15	0.30	3.1	2.5	53	2.5	7.8	0.3	10.3	38	95.32	92.39	92.28	2.9	17.9
MH-52	BASIN 15	0.00	0.00	0.00	0.79	10.0	10.0	25	5.74	0.00	4.57	RCP	0.015	15	15	15	0.70	4.7	3.8	98	4.4	12.0	0.2	10.2	40	96.62	92.28	92.00	4.3	34.8
BASIN 16	BASIN 15	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	12.37	RCP	0.015	18	18	18	3.07	16.0	9.0	78	9.9	11.9	0.1	10.1	49	98.36	94.00	92.50	4.4	31.8
BASIN 15	MH-374	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	11.79	RCP	0.015	18	18	18	1.72	11.9	6.8	99	7.8	14.6	0.4	10.4	172	96.69	92.00	89.04	4.7	35.8
MH-374	I-68	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	11.79	RCP	0.015	18	18	18	1.76	12.1	6.8	98	7.9	14.4	0.3	10.3	144	94.34	91.52	88.99	2.8	13.3
I-66	I-68	0.23	0.70	0.16	0.16	10.0	10.0	25	5.74	0.94	0.94	RCP	0.015	15	15	15	2.80	9.4	7.6	10	4.8	3.1	0.1	10.1	20	92.71	89.79	89.23	2.9	17.8
I-68	MH-311	0.23	0.70	0.16	0.16	10.0	10.0	25	5.74	0.94	13.31	RCP	0.015	18	18	18	3.11	16.1	9.1	83	10.1	12.4	0.1	10.1	44	92.71	88.98	87.62	3.7	24.3
MH-311	UGB 11	0.00	0.00	0.00	0.16	10.0	10.0	25	5.74	0.00	12.73	RCP	0.015	18	18	18	3.05	15.9	9.0	80	9.9	12.1	0.2	10.2	100	92.71	88.98	85.93	3.7	24.3
UGB 11	MH-492	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	10.60	RCP	0.015	24	24	24	0.50	13.9	4.4	76	4.8	15.5	0.2	10.2	44	89.31	84.58	84.36	4.7	29.8
MH-492	MH-490	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	10.60	RCP	0.015	24	24	24	0.50	13.9	4.4	76	4.8	15.5	0.1	10.1	29	89.24	84.36	84.21	4.9	31.6
UGB 4A	MH-488	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	3.90	RCP	0.015	24	24	24	0.50	13.9	4.4	28	3.7	8.6	0.1	10.1	21	92.27	85.60	85.49	6.7	53.0
MH-488	MH-566	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	3.90	RCP	0.015	24	24	24	0.50	13.9	4.4	28	3.7	8.6	0.2	10.2	49	91.39	85.49	85.25	5.9	43.8
MH-566	MH-489	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	7.72	RCP	0.015	24	24	24	0.50	13.9	4.4	56	4.5	12.8	0.2	10.2	67	90.63	85.25	84.91	5.4	37.6
MH-489	MH-490	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	7.72	RCP	0.015	24	24	24	0.50	13.9	4.4	56	4.5	12.8	0.5	10.5	122	89.94	84.91	84.21	5.0	33.4
MH-490	I-104	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	14.50	RCP	0.015	30	30	30	0.50	25.1	5.1	58	5.3	16.3	0.1	10.1	22	88.79	83.71	83.60	5.1	27.5
I-102	I-104	0.70	0.72	0.50	0.50	10.0	10.0	25	5.74	2.89	2.89	RCP	0.015	15	15	15	0.50	4.0	3.2	73	3.5	9.4	0.2	10.2	32	88.51	85.60	85.44	2.9	17.7
I-104	MH-108	0.25	0.47	0.12	0.62	10.0	10.0	25	5.74	0.69	18.08	RCP	0.015	30	30	30	0.50	25.1	5.1	72	5.5	18.7	0.3	10.3	91	88.52	83.60	83.15	4.9	25.5
MH-108	BASIN 1	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	18.08	RCP	0.015	30	30	30	0.50	25.1	5.1	72	5.5	18.7	0.1	10.1	43	90.46	83.15	82.94	7.3	54.2

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA											DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																
I-120	I-118	0.60	0.30	0.18	0.18	10.0	10.0	25	5.74	1.06	1.06	RCP	0.015	15	15	15	0.30	3.1	2.5	35	2.3	6.1	0.2	10.2	32	89.17	86.35	86.25	2.8	16.6
I-118	UGB 2	0.31	0.67	0.21	0.39	10.0	10.0	25	5.74	1.19	2.25	RCP	0.015	15	15	15	0.50	4.0	3.2	57	3.3	8.1	0.0	10.0	1	89.17	86.25	86.25	2.9	17.8
I-122	I-409	0.45	0.59	0.27	0.27	10.0	10.0	25	5.74	1.55	1.55	RCP	0.015	15	15	15	0.50	4.0	3.2	39	3.0	6.5	0.2	10.2	32	91.47	86.41	86.25	5.1	43.5
I-409	UGB 2	0.38	0.60	0.23	0.50	10.0	10.0	25	5.74	1.32	2.88	RCP	0.015	15	15	15	0.50	4.0	3.2	73	3.5	9.4	0.0	10.0	1	91.46	86.25	86.25	5.2	45.3
I-46	I-110	0.19	0.69	0.13	0.13	10.0	10.0	25	5.74	0.75	0.75	RCP	0.015	15	15	15	2.18	8.3	6.7	9	4.2	3.0	0.9	10.9	214	94.50	91.48	86.81	3.0	19.0
I-110	UGB 14	0.22	0.70	0.16	0.29	10.0	10.0	25	5.74	0.90	1.65	RCP	0.015	15	15	15	1.00	5.6	4.6	30	3.9	5.6	0.0	10.0	7	92.00	86.82	86.75	5.2	44.9
I-47	I-112	0.19	0.71	0.14	0.14	10.0	10.0	25	5.74	0.79	0.79	RCP	0.015	15	15	15	2.18	8.3	6.7	10	4.3	3.1	0.8	10.8	196	93.79	90.92	86.66	2.9	17.2
I-112	UGB 13	0.18	0.68	0.13	0.26	10.0	10.0	25	5.74	0.72	1.52	RCP	0.015	15	15	15	0.50	4.0	3.2	38	3.0	6.4	0.0	10.0	7	92.00	86.66	86.63	5.3	46.8
UGB 14	UGB 2	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	1.42	RCP	0.015	15	15	15	0.70	4.7	3.8	30	3.3	5.6	0.2	10.2	36	92.74	86.75	86.50	6.0	54.6
UGB 13	UGB 2	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	4.05	RCP	0.015	15	15	15	1.57	7.0	5.7	58	5.9	8.2	0.0	10.0	16	92.78	86.50	86.25	6.3	58.1
I-410	I-411	0.17	0.95	0.16	0.16	10.0	10.0	25	5.74	0.93	0.93	RCP	0.015	15	15	15	0.50	4.0	3.2	23	2.6	4.8	0.3	10.3	50	116.87	114.27	114.02	2.6	14.0
I-411	I-412	0.07	0.82	0.05	0.21	10.0	10.0	25	5.74	0.31	1.24	RCP	0.015	15	15	15	1.43	6.7	5.5	19	4.1	4.4	0.5	10.5	133	116.93	113.70	111.80	3.2	21.5
I-412	I-17	0.21	0.68	0.14	0.36	10.0	10.0	25	5.74	0.81	2.06	RCP	0.015	15	15	15	2.52	8.9	7.2	23	5.8	4.8	0.5	10.5	174	114.72	111.80	107.42	2.9	17.8
I-17	I-18	0.23	0.73	0.17	0.52	10.0	10.0	25	5.74	0.97	3.03	RCP	0.015	15	15	15	0.86	5.2	4.2	58	4.4	8.2	0.1	10.1	22	110.34	107.41	107.22	2.9	17.9
I-18	UGB 55	0.50	0.84	0.42	0.95	10.0	10.0	25	5.74	2.44	5.47	RCP	0.015	15	15	15	2.00	7.9	6.5	69	6.9	9.1	0.1	10.1	36	110.34	107.22	106.50	3.1	20.2
I-387	I-388	0.29	0.79	0.23	0.23	10.0	10.0	25	5.74	1.31	1.31	RCP	0.015	15	15	15	0.50	4.0	3.2	33	2.9	5.9	0.6	10.6	99	115.70	112.73	112.24	3.0	18.4
I-388	UGB 55	0.21	0.83	0.18	0.40	10.0	10.0	25	5.74	1.02	2.32	RCP	0.015	15	15	15	3.00	9.7	7.9	24	6.4	4.9	0.1	10.1	29	115.74	107.38	106.51	8.4	83.1
I-389	UGB 55	0.44	0.65	0.29	0.69	10.0	10.0	25	5.74	1.65	3.97	RCP	0.015	15	15	15	3.00	9.7	7.9	41	7.5	6.7	0.0	10.0	1	112.67	109.73	109.70	2.9	18.0
I-19	UGB 55	0.55	0.66	0.36	0.36	10.0	10.0	25	5.74	2.08	2.08	RCP	0.015	15	15	15	0.50	4.0	3.2	53	3.3	7.8	0.1	10.1	10	111.03	106.55	106.50	4.5	36.5
I-560	MH-561	0.24	0.51	0.12	0.12	10.0	10.0	25	5.74	0.72	0.72	RCP	0.015	15	15	15	0.50	4.0	3.2	18	2.4	4.2	0.6	10.6	85	118.14	113.79	113.37	4.3	34.9
MH-561	I-390	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.72	0.72	RCP	0.015	15	15	15	0.50	4.0	3.2	18	2.4	4.2	0.5	10.5	77	118.83	113.37	112.98	5.5	48.3
I-390	I-391	0.57	0.58	0.33	0.46	10.0	10.0	25	5.74	1.94	2.65	RCP	0.015	15	15	15	0.50	4.0	3.2	67	3.4	8.9	0.3	10.3	71	116.00	112.98	112.63	3.0	19.0
I-391	I-392	0.38	0.59	0.22	0.68	10.0	10.0	25	5.74	1.29	3.94	RCP	0.015	15	15	15	0.50	4.0	3.2	100	3.7	12.3	0.3	10.3	75	115.80	112.63	112.26	3.2	20.8
I-392	I-290	0.39	0.52	0.20	0.88	10.0	10.0	25	5.74	1.17	5.11	RCP	0.015	18	18	18	1.58	11.4	6.5	45	6.3	8.4	0.2	10.2	71	115.26	112.01	110.89	3.3	18.5
I-290	FES-551	0.36	0.53	0.19	1.08	10.0	10.0	25	5.74	1.11	6.22	RCP	0.015	18	18	18	0.50	6.4	3.6	97	4.2	14.3	0.3	10.3	68	114.06	110.89	110.55	3.2	17.5

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA											DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																
I-576	I-2	0.08	0.50	0.04	0.04	10.0	10.0	25	5.74	0.23	0.23	RCP	0.015	15	15	15	1.42	6.7	5.4	3	2.3	1.7	0.4	10.4	63	116.46	113.54	112.65	2.9	17.8
I-2	MH-6	0.23	0.80	0.19	0.23	10.0	10.0	25	5.74	1.08	1.31	RCP	0.015	15	15	15	0.99	5.6	4.5	24	3.7	4.9	0.2	10.2	41	115.56	112.64	112.23	2.9	17.8
I-5	MH-6	0.27	0.54	0.15	0.15	10.0	10.0	25	5.74	0.85	0.85	RCP	0.015	18	18	18	0.50	6.4	3.6	13	2.5	4.3	0.1	10.1	11	112.23	108.08	108.03	4.2	29.3
I-1	MH-6	0.21	0.53	0.11	0.11	10.0	10.0	25	5.74	0.65	0.65	RCP	0.015	18	18	18	0.50	6.4	3.6	10	2.3	3.8	0.7	10.7	103	112.01	109.17	108.65	2.8	13.6
MH-6	UGB 22	0.06	0.00	0.00	0.49	10.0	10.0	25	5.74	0.00	2.82	RCP	0.015	15	15	15	2.00	7.9	6.5	36	5.9	6.2	0.0	10.0	8	115.68	107.66	107.50	8.0	79.0
I-10	UGB 21	0.06	0.57	0.04	0.04	10.0	10.0	25	5.74	0.21	0.21	RCP	0.015	15	15	15	4.00	11.2	9.1	2	3.6	1.5	0.1	10.1	21	112.62	99.33	98.49	13.3	142.2
I-9	I-8	0.24	0.70	0.17	0.17	10.0	10.0	25	5.74	0.96	0.96	RCP	0.015	15	15	15	2.00	7.9	6.5	12	4.3	3.4	0.1	10.1	20	104.99	100.05	99.65	4.9	42.0
I-8	I-545	0.18	0.69	0.12	0.29	10.0	10.0	25	5.74	0.71	1.67	RCP	0.015	15	15	15	2.00	7.9	6.5	21	5.0	4.6	0.2	10.2	46	104.98	99.64	98.72	5.3	46.8
I-545	UGB 21	0.10	0.63	0.06	0.35	10.0	10.0	25	5.74	0.36	2.03	RCP	0.015	15	15	15	2.00	7.9	6.5	26	5.3	5.1	0.0	10.0	11	106.10	98.73	98.51	7.4	71.2
I-21	MH-22	0.19	0.71	0.14	0.14	10.0	10.0	25	5.74	0.79	0.79	RCP	0.015	15	15	15	1.33	6.5	5.3	12	3.5	3.4	0.3	10.3	70	108.54	105.62	104.69	2.9	17.8
MH-22	UGB 41	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	0.79	RCP	0.015	15	15	15	1.33	6.5	5.3	12	3.5	3.4	0.1	10.1	14	111.41	104.69	104.50	6.7	63.4
I-24	UGB 49	0.18	0.60	0.11	0.11	10.0	10.0	25	5.74	0.62	0.62	RCP	0.015	15	15	15	4.27	11.6	9.4	5	4.7	2.1	0.1	10.1	22	107.05	104.13	103.19	2.9	17.8
I-26	UGB 49	0.33	0.70	0.23	0.23	10.0	10.0	25	5.74	1.31	1.31	RCP	0.015	15	15	15	2.81	9.4	7.6	14	5.3	3.7	0.1	10.1	37	106.89	103.97	102.93	2.9	17.8
I-28	UGB 48	0.13	0.66	0.09	0.09	10.0	10.0	25	5.74	0.50	0.50	RCP	0.015	15	15	15	3.26	10.1	8.2	5	4.1	2.1	0.1	10.1	23	105.07	102.15	101.40	2.9	17.8
I-30	UGB 48	0.16	0.71	0.11	0.11	10.0	10.0	25	5.74	0.66	0.66	RCP	0.015	15	15	15	3.94	11.1	9.1	6	4.8	2.4	0.1	10.1	19	105.14	102.16	101.41	3.0	18.5
I-32	UGB 54	0.17	0.48	0.08	0.08	10.0	10.0	25	5.74	0.48	0.48	RCP	0.015	15	15	15	2.22	8.3	6.8	6	3.6	2.4	0.0	10.0	8	102.69	99.68	99.50	3.0	18.9
I-34	UGB 54	0.57	0.68	0.39	0.39	10.0	10.0	25	5.74	2.24	2.24	DIP	0.013	12	12	12	0.50	2.5	3.2	89	3.6	8.8	0.0	10.0	9	102.10	99.54	99.50	2.6	16.7
UGB 21	MH-12	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	6.82	RCP	0.015	24	24	24	0.50	13.9	4.4	49	4.4	11.9	0.4	10.4	103	107.75	98.50	98.98	9.3	84.0
MH-12	UGB 20	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	6.82	RCP	0.015	24	24	24	0.48	13.6	4.3	50	4.3	12.0	0.3	10.3	80	108.77	98.98	98.60	9.8	90.5
UGB 49	UGB 20	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	4.93	RCP	0.015	15	15	15	4.33	11.6	9.5	42	9.0	6.8	0.2	10.2	132	108.33	103.33	97.61	5.0	42.8
UGB 48	MH-438	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	2.84	RCP	0.015	15	15	15	0.50	4.0	3.2	72	3.5	9.4	0.1	10.1	20	106.72	102.15	102.05	4.6	37.6
MH-438	I-14	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	2.84	RCP	0.015	15	15	15	0.50	4.0	3.2	72	3.5	9.4	0.1	10.1	26	106.16	102.05	101.92	4.1	32.1
I-14	UGB 20	1.13	0.58	0.65	0.65	10.0	10.0	25	5.74	3.78	6.62	RCP	0.015	15	15	15	4.54	11.9	9.7	55	9.9	7.9	0.1	10.1	85	105.76	101.92	98.06	3.8	28.8
UGB 20	MH-440	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	2.99	HDPE	0.012	10	10	10	3.16	4.2	7.7	71	8.3	6.2	0.0	10.0	8	101.76	97.72	97.48	4.0	36.6
MH-440	MH-441	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	2.99	HDPE	0.012	10	10	10	3.16	4.2	7.7	71	8.3	6.2	0.1	10.1	69	101.45	97.48	95.28	4.0	35.8

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA											DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																
MH-441	UGB 19	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	2.99	HDPE	0.012	10	10	10	3.16	4.2	7.7	71	8.3	6.2	0.0	10.0	9	98.47	95.28	95.00	3.2	26.4
I-42	I-44	0.21	0.68	0.14	0.14	10.0	10.0	25	5.74	0.83	0.83	RCP	0.015	15	15	15	0.50	4.0	3.2	21	2.5	4.6	0.1	10.1	20	98.66	95.13	95.03	3.5	25.1
I-44	UGB 19	0.24	0.56	0.13	0.28	10.0	10.0	25	5.74	0.78	1.61	RCP	0.015	15	15	15	0.50	4.0	3.2	41	3.0	6.7	0.0	10.0	6	98.66	95.03	95.00	3.6	26.3
UGB 19	UGB 18	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	2.37	HDPE	0.012	10	10	10	1.73	3.1	5.7	76	6.3	6.5	0.1	10.1	31	99.58	95.03	94.49	4.6	42.8
I-142	I-38	0.31	0.67	0.21	0.21	10.0	10.0	25	5.74	1.19	1.19	RCP	0.015	15	15	15	1.74	7.4	6.0	16	4.3	4.0	1.2	11.2	316	103.11	100.19	94.71	2.9	17.8
I-38	I-309	0.58	0.71	0.41	0.62	10.0	10.0	25	5.74	2.37	3.57	DIP	0.013	15	15	15	0.50	4.6	3.7	78	4.1	9.9	0.1	10.1	32	97.36	94.71	94.55	2.7	14.6
I-309	UGB 18	0.26	0.53	0.14	0.75	10.0	10.0	25	5.74	0.80	4.37	DIP	0.013	18	18	18	0.30	5.8	3.3	76	3.6	11.6	0.1	10.1	15	97.38	94.55	94.51	2.8	13.5
UGB 22	MH-511	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	6.58	RCP	0.015	15	15	15	1.50	6.9	5.6	96	6.4	11.8	0.1	10.1	27	113.17	108.16	107.75	5.0	42.9
MH-511	MH-544	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	6.58	RCP	0.015	15	15	15	1.50	6.9	5.6	96	6.4	11.8	0.2	10.2	89	112.32	107.75	106.42	4.6	37.6
UGB 41	MH-544	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	1.85	RCP	0.015	15	15	15	0.50	4.0	3.2	47	3.2	7.2	0.1	10.1	17	110.93	104.50	104.42	6.4	59.9
MH-544	MH-341	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	8.43	RCP	0.015	24	24	24	0.50	13.9	4.4	61	4.6	13.5	0.1	10.1	29	110.80	103.66	103.52	7.1	58.7
UGB 55	MH-341	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	17.82	RCP	0.015	24	24	24	0.90	18.6	5.9	96	6.8	18.8	0.1	10.1	37	111.38	106.50	106.17	4.9	31.6
MH-341	MH-342	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	26.25	RCP	0.015	36	36	36	0.50	40.9	5.8	64	6.1	20.8	0.2	10.2	86	110.25	102.51	102.08	7.7	52.9
OCS-347 (B53	MH-342	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	4.85	RCP	0.015	15	15	15	1.77	7.4	6.1	65	6.4	8.8	0.1	10.1	35	108.22	104.50	103.88	3.7	27.4
MH-342	MH-434	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	31.10	RCP	0.015	36	36	36	0.55	42.9	6.1	73	6.6	22.7	0.8	10.8	310	109.26	102.13	100.36	7.1	45.6
BASIN 52	MH-434	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	5.03	RCP	0.015	15	15	15	1.00	5.6	4.6	90	5.2	11.1	0.1	10.1	27	102.03	100.15	99.88	1.9	5.3
MH-434	MH-343	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	36.13	RCP	0.015	36	36	36	0.50	40.9	5.8	88	6.5	26.0	0.5	10.5	184	105.19	98.09	97.16	7.1	45.2
MH-343	MH-513	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	36.13	RCP	0.015	36	36	36	0.50	40.9	5.8	88	6.5	26.0	0.1	10.1	48	102.94	97.16	96.92	5.8	29.4
UGB 54	MH-513	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	4.08	RCP	0.015	15	15	15	1.34	6.5	5.3	63	5.5	8.6	0.1	10.1	37	103.10	99.50	99.00	3.6	25.9
MH-513	MH-353	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	40.21	RCP	0.015	36	36	36	1.81	77.8	11.0	52	11.1	18.4	0.4	10.4	256	102.44	96.92	92.29	5.5	26.2
UGB 18	MH-353	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	9.85	RCP	0.015	18	18	18	2.19	13.5	7.6	73	8.3	11.3	0.1	10.1	43	98.61	95.25	94.31	3.4	19.8
MH-353	MH-344	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	50.06	RCP	0.015	36	36	36	2.49	91.2	12.9	55	13.2	19.0	0.3	10.3	247	97.13	92.30	86.15	4.8	18.0
UGB 2	MH-344	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	6.93	RCP	0.015	24	24	24	0.50	13.9	4.4	50	4.4	12.0	0.1	10.1	22	91.71	86.25	86.14	5.5	38.5
MH-344	MH-345	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	56.99	RCP	0.015	42	42	42	0.54	64.1	6.7	89	7.5	30.7	0.3	10.3	155	91.83	86.14	85.31	5.7	21.8
MH-345	BASIN 12	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	56.99	RCP	0.015	42	42	42	0.52	62.9	6.5	91	7.4	31.3	0.0	10.0	11	89.39	85.31	85.25	4.1	2.5

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA												DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																	
BASIN 58	BASIN 59	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	13.28	RCP	0.015	24	24	24	0.50	13.9	4.4	96	5.1	18.8	0.3	10.3	83	109.98	106.40	105.99	3.6	16.0
I-129	I-130	0.13	0.37	0.05	0.05	10.0	10.0	25	5.74	0.28	0.28	RCP	0.015	15	15	15	1.09	5.8	4.8	5	2.4	2.1	1.0	11.0	141	109.07	106.15	104.60	2.9	17.8
I-130	I-131	0.31	0.46	0.14	0.19	10.0	10.0	25	5.74	0.82	1.10	RCP	0.015	15	15	15	0.50	4.0	3.2	28	2.7	5.4	0.2	10.2	32	107.08	104.60	104.44	2.5	12.5
I-131	BASIN 59	0.69	0.74	0.51	0.70	10.0	10.0	25	5.74	2.93	4.03	RCP	0.015	15	15	15	0.52	4.0	3.3	100	3.8	12.3	0.2	10.2	35	107.07	104.44	104.25	2.6	14.3
I-124	MH-125	0.22	0.70	0.15	0.15	10.0	10.0	25	5.74	0.89	0.89	RCP	0.015	15	15	15	0.30	3.1	2.5	29	2.1	5.5	0.4	10.4	48	107.76	104.88	104.74	2.9	17.3
I-128	MH-125	0.47	0.46	0.22	0.22	10.0	10.0	25	5.74	1.26	1.26	RCP	0.015	15	15	15	0.30	3.1	2.5	41	2.4	6.7	0.1	10.1	11	108.09	104.77	104.74	3.3	22.6
MH-125	MH-126	0.00	0.00	0.00	0.85	10.0	10.0	25	5.74	0.00	1.26	RCP	0.015	15	15	15	0.38	3.5	2.8	36	2.6	6.2	0.3	10.3	44	109.21	104.74	104.57	4.5	36.4
MH-126	FES 127	0.00	0.00	0.00	0.37	10.0	10.0	25	5.74	0.00	1.26	RCP	0.015	15	15	15	0.38	3.5	2.8	36	2.6	6.2	0.1	10.1	18	109.21	104.57	104.50	4.6	38.4
I-134	MH-435	0.24	0.64	0.15	0.52	10.0	10.0	25	5.74	0.87	3.02	RCP	0.015	15	15	15	0.79	5.0	4.1	61	4.2	8.4	0.5	10.5	138	107.72	104.10	103.01	3.6	26.2
MH-435	BASIN 52	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.87	3.02	RCP	0.015	15	15	15	0.79	5.0	4.1	61	4.2	8.4	0.1	10.1	21	106.07	103.01	102.84	3.1	19.5
I-138	I-137	0.42	0.46	0.19	0.19	10.0	10.0	25	5.74	1.11	1.11	RCP	0.015	15	15	15	0.50	4.0	3.2	28	2.7	5.4	0.5	10.5	79	103.54	100.62	100.23	2.9	17.8
I-137	FES 136	0.43	0.62	0.27	0.46	10.0	10.0	25	5.74	1.54	2.65	RCP	0.015	15	15	15	0.46	3.8	3.1	70	3.3	9.2	0.1	10.1	27	104.74	100.22	100.10	4.5	37.0
I-362	I-140	0.33	0.67	0.22	0.22	10.0	10.0	25	5.74	1.28	1.28	RCP	0.015	15	15	15	0.50	4.0	3.2	32	2.8	5.8	0.2	10.2	32	104.95	101.83	101.67	3.1	20.2
I-140	BASIN 51	0.10	0.88	0.08	0.31	10.0	10.0	25	5.74	0.49	1.77	RCP	0.015	15	15	15	0.38	3.5	2.8	51	2.8	7.6	0.3	10.3	45	104.97	101.67	101.50	3.3	22.4
I-144	MH-356	0.27	0.74	0.20	0.20	10.0	10.0	25	5.74	1.14	1.14	RCP	0.015	15	15	15	0.50	4.0	3.2	29	2.8	5.5	0.5	10.5	85	106.93	104.01	103.59	2.9	17.8
MH-356	BASIN 35	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	1.14	RCP	0.015	15	15	15	0.50	4.0	3.2	29	2.8	5.5	0.2	10.2	26	108.22	103.59	103.46	4.6	38.3
BASIN 59	BASIN 35	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	17.49	RCP	0.015	36	36	36	0.71	48.7	6.9	36	6.3	14.9	0.4	10.4	136	107.28	104.36	103.39	2.9	-5.0
BASIN 35	MH-350	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	18.58	RCP	0.015	30	30	30	1.08	36.9	7.5	50	7.5	15.0	0.1	10.1	30	107.19	102.43	102.11	4.8	23.6
MH-350	MH-369	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	18.58	RCP	0.015	30	30	30	1.20	38.9	7.9	48	7.8	14.6	0.4	10.4	174	108.71	102.11	100.02	6.6	45.7
BASIN 51	MH-369	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	9.03	RCP	0.015	24	24	24	0.50	13.9	4.4	65	4.7	14.0	0.7	10.7	195	104.59	101.50	100.53	3.1	10.1
MH-369	UGB 3	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	27.61	RCP	0.015	30	30	30	2.68	58.2	11.9	47	11.6	14.4	0.3	10.3	216	108.63	100.02	94.23	8.6	69.8
MH-369	UGB 3	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	27.61	RCP	0.015	30	30	30	2.70	58.4	11.9	47	11.7	14.4	0.4	10.4	275	108.63	94.24	86.82	14.4	139.2
UGB 3	BASIN 14	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	22.41	RCP	0.015	30	30	30	1.23	39.4	8.0	57	8.3	16.2	0.1	10.1	41	97.58	85.75	85.25	11.8	108.5
BASIN 14	MH-508	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	1.42	RCP	0.015	15	15	15	0.50	4.0	3.2	36	2.9	6.2	0.2	10.2	40	90.00	85.25	85.05	4.8	39.8
MH-508	MH-371	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	1.42	RCP	0.015	15	15	15	0.50	4.0	3.2	36	2.9	6.2	2.1	12.1	363	88.00	85.05	83.24	3.0	18.2

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA												DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																	
MH-371	BASIN 1	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	1.42	RCP	0.015	15	15	15	0.50	4.0	3.2	36	2.9	6.2	0.4	10.4	63	84.82	83.24	82.92	1.6	1.7
BASIN 1	EX MH	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	109.59	RCP	0.015	36	36	36	2.75	95.9	13.6	114	15.5	29.5	0.1	10.1	111	87.00	76.95	73.90	10.1	80.6
I-147	I-149	0.13	0.99	0.13	0.13	10.0	10.0	25	5.74	0.76	0.76	RCP	0.015	15	15	15	1.27	6.3	5.1	12	3.4	3.4	0.3	10.3	64	121.59	117.94	117.13	3.7	26.6
I-149	MH-591	0.19	0.69	0.13	0.26	10.0	10.0	25	5.74	0.77	1.53	RCP	0.015	15	15	15	0.41	3.6	2.9	43	2.8	6.8	0.9	10.9	144	121.57	117.13	116.54	4.4	36.0
MH-591	I-150	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.77	1.53	RCP	0.015	15	15	15	0.41	3.6	2.9	43	2.8	6.8	0.5	10.5	83	123.38	116.54	116.20	6.8	64.8
I-158	I-150	0.25	0.99	0.25	0.25	10.0	10.0	25	5.74	1.43	1.43	RCP	0.015	15	15	15	0.38	3.5	2.8	41	2.7	6.7	1.1	11.1	176	121.07	116.07	115.40	5.0	42.8
I-153	I-150	0.05	0.99	0.05	0.05	10.0	10.0	25	5.74	0.29	0.29	RCP	0.015	15	15	15	0.54	4.1	3.4	7	1.9	2.6	0.7	10.7	73	120.49	116.66	116.27	3.8	28.7
I-150	I-451	0.32	0.67	0.22	0.78	10.0	10.0	25	5.74	1.26	4.51	RCP	0.015	18	18	18	0.42	5.9	3.3	76	3.7	11.6	1.0	11.0	218	120.62	114.97	114.05	5.7	47.3
I-454	I-451	0.56	0.95	0.54	0.54	10.0	10.0	25	5.74	3.10	3.10	RCP	0.015	15	15	15	0.46	3.8	3.1	82	3.4	10.2	0.3	10.3	64	117.13	114.18	113.89	2.9	18.1
I-451	I-452	0.40	0.87	0.35	0.88	10.0	10.0	25	5.74	2.01	5.12	RCP	0.015	18	18	18	0.33	5.2	3.0	98	3.4	14.4	0.4	10.4	80	117.18	113.89	113.63	3.3	19.0
I-455	I-452	0.16	0.94	0.15	0.15	10.0	10.0	25	5.74	0.88	0.88	RCP	0.015	15	15	15	0.50	4.0	3.2	22	2.5	4.7	0.5	10.5	74	117.75	114.78	114.41	3.0	18.4
I-452	I-163	0.16	0.95	0.15	1.19	10.0	10.0	25	5.74	0.88	6.88	RCP	0.015	18	18	18	0.60	7.1	4.0	98	4.6	14.4	0.5	10.5	133	115.99	113.62	112.82	2.4	7.9
I-168	I-163	0.10	0.94	0.09	0.09	10.0	10.0	25	5.74	0.55	0.55	RCP	0.015	15	15	15	0.48	3.9	3.2	14	2.2	3.7	0.6	10.6	78	117.75	113.19	112.82	4.6	37.5
I-163	I-164	0.20	0.95	0.19	1.48	10.0	10.0	25	5.74	1.12	8.54	RCP	0.015	24	24	24	0.30	10.7	3.4	80	3.8	16.1	0.5	10.5	124	117.74	112.32	111.95	5.4	38.0
I-264	I-265	0.10	0.92	0.09	0.09	10.0	10.0	25	5.74	0.51	0.51	RCP	0.015	15	15	15	0.50	4.0	3.2	13	2.2	3.5	0.4	10.4	50	116.73	113.46	113.21	3.3	22.0
I-265	I-169	0.03	0.61	0.02	0.11	10.0	10.0	25	5.74	0.11	0.62	RCP	0.015	15	15	15	0.50	4.0	3.2	16	2.3	4.0	0.4	10.4	52	116.68	113.21	112.95	3.5	24.4
I-169	I-164	0.26	0.95	0.25	0.35	10.0	10.0	25	5.74	1.43	2.05	RCP	0.015	15	15	15	0.50	4.0	3.2	52	3.3	7.7	0.3	10.3	50	116.51	112.95	112.70	3.6	25.5
I-164	I-165	0.18	0.83	0.15	1.98	10.0	10.0	25	5.74	0.84	11.44	RCP	0.015	24	24	24	0.38	12.1	3.8	95	4.4	18.6	0.8	10.8	208	116.45	111.95	111.16	4.5	27.0
I-170	I-165	2.63	0.97	2.55	2.55	10.0	10.0	25	5.74	14.76	14.76	RCP	0.015	24	24	24	0.60	15.2	4.8	97	5.5	19.0	0.2	10.2	74	116.45	112.35	111.91	4.1	22.2
I-165	I-166	0.95	0.91	0.86	5.39	10.0	10.0	25	5.74	4.99	31.19	RCP	0.015	36	36	36	0.50	40.9	5.8	76	6.3	23.3	0.8	10.8	305	116.44	110.16	108.64	6.3	35.4
I-166	I-171	0.82	0.93	0.76	6.15	10.0	10.0	25	5.74	4.41	35.60	RCP	0.015	36	36	36	0.50	40.9	5.8	87	6.5	25.8	0.2	10.2	87	116.57	108.64	108.23	7.9	55.2
I-171	MH-469	1.24	0.95	1.18	7.34	10.0	10.0	25	5.74	6.85	42.45	RCP	0.015	36	36	36	0.56	43.3	6.1	98	7.0	28.8	0.2	10.2	74	116.18	108.23	107.82	8.0	55.4
I-3	UGB 17	0.53	0.73	0.39	0.39	10.0	10.0	25	5.74	2.24	2.24	DIP	0.013	15	15	15	0.50	4.6	3.7	49	3.7	7.4	0.1	10.1	18	114.26	111.59	111.50	2.7	14.8
I-4	UGB 17	0.40	0.72	0.29	0.29	10.0	10.0	25	5.74	1.67	1.67	RCP	0.015	15	15	15	0.50	4.0	3.2	42	3.1	6.8	0.0	10.0	9	115.90	111.54	111.50	4.4	35.1
UGB 17	I-176	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	3.43	RCP	0.015	15	15	15	0.50	4.0	3.2	87	3.6	10.7	0.2	10.2	46	115.26	111.50	111.27	3.8	27.9

STORM SEWER CALCULATIONS

PRINCETON NURSERIES

MADE BY: JRB DATE: 05/28/24

REV. BY: BM DATE: 09/18/24

RAINFALL CURVE - TRENTON

PROJECT **Princeton Nurseries**

PROJ. NO. WRNUL23001

SUBAREA DATA						DESIGN DATA												DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
								25					0.015																	
MH-449	I-176	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	3.43	RCP	0.015	15	15	15	0.50	4.0	3.2	87	3.6	10.7	0.7	10.7	152	115.25	111.27	110.51	4.0	30.5
I-175	I-176	0.16	0.58	0.09	0.09	10.0	10.0	25	5.74	0.53	0.53	RCP	0.015	15	15	15	0.50	4.0	3.2	13	2.2	3.5	0.2	10.2	32	114.78	110.67	110.51	4.1	32.1
I-176	MH-466	0.22	0.78	0.17	0.26	10.0	10.0	25	5.74	1.00	4.96	RCP	0.015	15	15	15	0.56	4.2	3.4	118	3.9	12.3	0.4	10.4	97	114.78	110.26	109.72	4.5	37.0
MH-466	MH-469	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	4.96	RCP	0.015	15	15	15	0.55	4.2	3.4	119	3.9	12.3	0.3	10.3	72	116.12	109.72	109.32	6.4	59.6
MH-469	I-296	0.00	0.00	0.00	7.34	10.0	10.0	25	5.74	0.00	47.41	RCP	0.015	36	36	36	0.70	48.4	6.8	98	7.9	28.8	0.7	10.7	311	116.08	107.82	105.64	8.3	59.1
I-296	MH-580	0.48	0.66	0.32	7.65	10.0	10.0	25	5.74	1.82	49.23	RCP	0.015	36	36	36	1.00	57.8	8.2	85	9.2	25.2	0.1	10.1	69	110.90	105.64	104.95	5.3	23.1
I-581	I-582	0.40	0.83	0.33	0.33	10.0	10.0	25	5.74	1.91	1.91	RCP	0.015	15	15	15	0.50	4.0	3.2	48	3.2	7.3	0.4	10.4	74	111.00	107.98	107.61	3.0	19.0
I-582	I-167	0.08	0.72	0.06	0.39	10.0	10.0	25	5.74	0.34	2.24	RCP	0.015	15	15	15	0.50	4.0	3.2	57	3.3	8.1	0.4	10.4	73	110.86	107.61	107.25	3.3	21.8
I-167	MH-580	0.08	0.84	0.06	0.45	10.0	10.0	25	5.74	0.37	2.61	RCP	0.015	15	15	15	0.50	4.0	3.2	66	3.4	8.8	0.0	10.0	10	110.83	107.24	107.19	3.6	25.8
MH-580	EX BASIN 6	0.00	0.00	0.00	8.10	10.0	10.0	25	5.74	0.00	51.84	RCP	0.015	36	36	36	0.99	57.5	8.1	90	9.2	26.6	0.4	10.4	244	112.00	99.95	97.53	12.1	104.6
I-271	I-272	0.12	0.82	0.10	0.10	10.0	10.0	25	5.74	0.59	0.59	RCP	0.015	15	15	15	0.50	4.0	3.2	15	2.3	3.8	0.2	10.2	32	115.14	112.23	112.07	2.9	17.7
I-272	I-273	0.11	0.87	0.10	0.20	10.0	10.0	25	5.74	0.58	1.17	RCP	0.015	15	15	15	0.50	4.0	3.2	29	2.8	5.5	0.9	10.9	156	115.14	112.07	111.29	3.1	19.6
I-273	I-274	0.11	0.81	0.09	0.29	10.0	10.0	25	5.74	0.53	1.70	RCP	0.015	15	15	15	0.50	4.0	3.2	43	3.1	6.8	0.2	10.2	32	115.47	111.29	111.13	4.2	32.9
I-274	I-275	0.11	0.85	0.10	0.39	10.0	10.0	25	5.74	0.56	2.26	RCP	0.015	15	15	15	0.50	4.0	3.2	57	3.3	8.1	0.3	10.3	67	115.47	111.13	110.80	4.3	34.8
I-280	I-281	0.43	0.96	0.41	0.41	10.0	10.0	25	5.74	2.40	2.40	RCP	0.015	15	15	15	0.50	4.0	3.2	61	3.4	8.4	1.5	11.5	302	115.00	112.08	110.57	2.9	17.8
I-281	I-275	0.15	0.62	0.09	0.51	10.0	10.0	25	5.74	0.54	2.94	RCP	0.015	15	15	15	0.50	4.0	3.2	74	3.5	9.5	0.6	10.6	128	115.33	110.57	109.93	4.8	39.9
I-275	I-276	0.26	0.70	0.19	1.08	10.0	10.0	25	5.74	1.07	6.27	RCP	0.015	24	24	24	0.35	11.6	3.7	54	3.7	12.5	0.8	10.8	172	115.61	109.18	108.58	6.4	50.2
I-276	MH-585	0.19	0.72	0.14	1.22	10.0	10.0	25	5.74	0.78	7.05	RCP	0.015	24	24	24	0.35	11.6	3.7	61	3.9	13.5	0.3	10.3	75	116.50	108.58	108.32	7.9	68.0
MH-585	I-295	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	7.05	RCP	0.015	24	24	24	0.35	11.6	3.7	61	3.9	13.5	0.5	10.5	122	114.16	108.32	107.89	5.8	43.1
I-295	I-294	0.17	0.44	0.07	1.29	10.0	10.0	25	5.74	0.43	7.49	RCP	0.015	24	24	24	0.35	11.6	3.7	65	3.9	14.0	0.1	10.1	32	112.28	107.89	107.78	4.4	25.7
I-294	BASIN 25	0.05	0.62	0.03	1.33	10.0	10.0	25	5.74	0.19	7.68	RCP	0.015	24	24	24	0.50	13.9	4.4	55	4.5	12.7	0.3	10.3	73	112.28	107.78	107.41	4.5	27.0
I-187	I-186	1.45	0.57	0.82	0.82	10.0	10.0	25	5.74	4.77	4.77	RCP	0.015	18	18	18	0.50	6.4	3.6	74	4.0	11.4	0.1	10.1	32	95.15	91.98	91.82	3.2	17.5
I-186	EX MH	0.22	0.66	0.14	0.97	10.0	10.0	25	5.74	0.84	5.60	RCP	0.015	18	18	18	0.50	6.4	3.6	87	4.1	12.9	0.4	10.4	89	95.15	91.82	91.39	3.3	19.5
OCS-589	FES 588	0.00	0.00	0.00	0.00	10.0	10.0	25	5.74	0.00	5.32	RCP	0.015	18	18	18	2.00	12.9	7.3	41	6.9	8.0	0.1	10.1	51	104.28	98.02	97.00	6.3	54.6

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

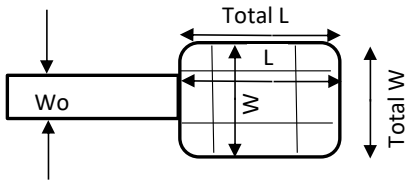
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
Page:
By:

Structure: FES 127
25 Year Storm

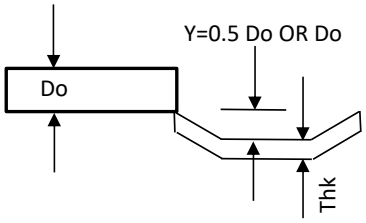
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	1.26	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.39	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 105.89

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

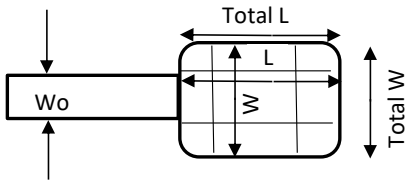
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/19/2024
Page:
By:

Structure: FES 136
25 Year Storm

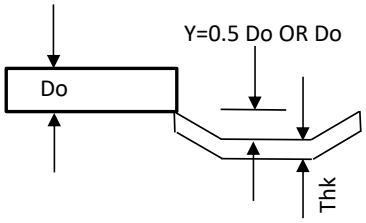
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	2.65	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.02	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 101.12

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

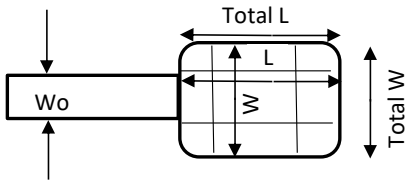
PROJECT: Princeton Nurseries

Date: 9/19/2024
Rev:
Page:
By:

Structure: FES 141
25 Year Storm

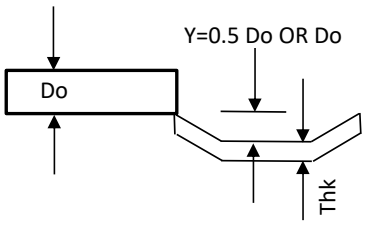
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	1.77	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.31	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 103.31

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

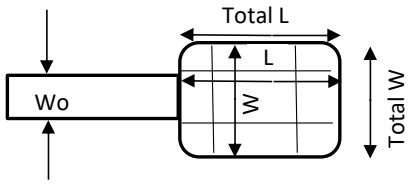
PROJECT: Princeton Nurseries

Date: 9/19/2024
Rev:
Page:
By:

Structure: FES 146
25 Year Storm

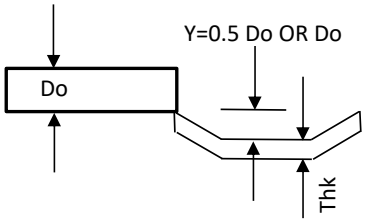
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	1.14	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.95	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 105.35

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
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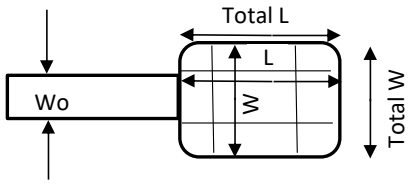
By:

Structure: FES 181
25 Year Storm

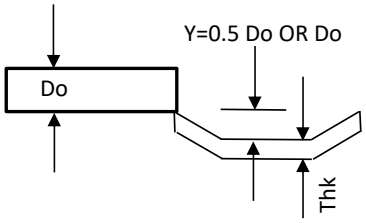
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	5.98	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.76	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm el. 98.76

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
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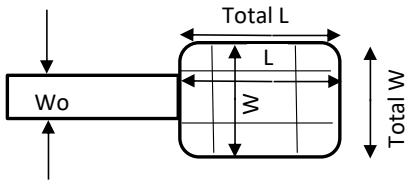
By:

Structure: FES 183
25 Year Storm

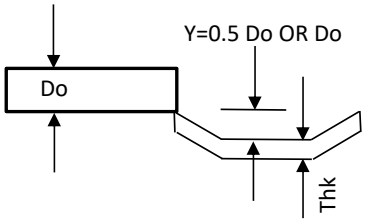
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	2.27	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.76	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm el. 98.76

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
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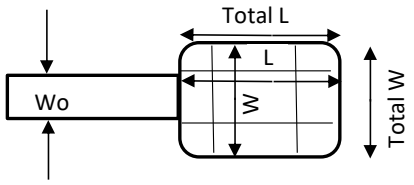
By:

Structure: FES 192
25 Year Storm

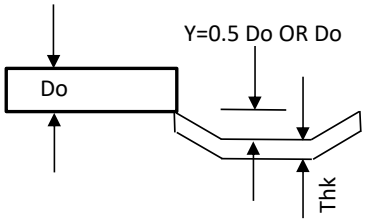
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	3.12	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.90	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm el. 94.90

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
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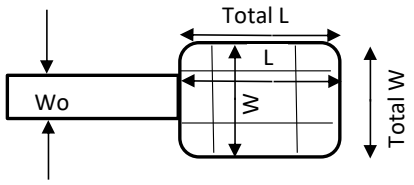
By:

Structure: FES 195
25 Year Storm

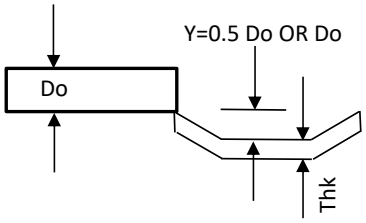
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	5.38	CFS
Culvert Horiz Dim.=	1.92	Ft
Tailwater Depth=	1.32	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.16	Ft
Depth of Hole (Y)	1.00	Ft
Length of Bottom (L)	3.48	Ft
Width of Bottom (W)	3.84	Ft
Total Length of Scour Hole	9.48	Ft
Total Width of Scour Hole	9.84	Ft
D(50) calc.	1	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW = 2 year storm el. 92.32

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 9/18/2024
Rev:
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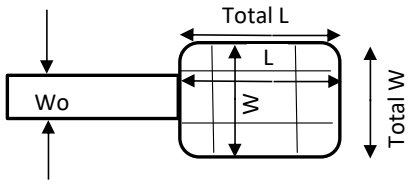
Structure: FES 203
25 Year Storm

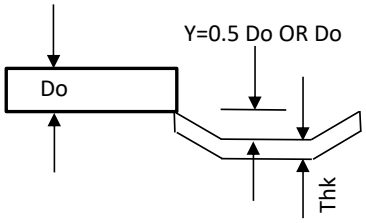
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	4.69	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.69	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW = 2 year storm el. 93.09

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 9/18/2024
Rev:
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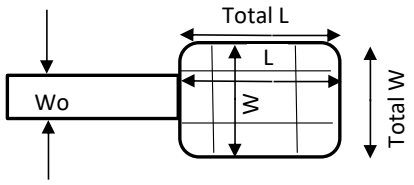
By:

Structure: FES 207
25 Year Storm

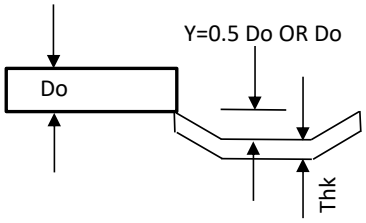
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	80.95	CFS
Culvert Horiz Dim.=	5.00	Ft
Tailwater Depth=	1.69	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	3.16	Ft
Depth of Hole (Y)	1.50	Ft
Length of Bottom (L)	9.48	Ft
Width of Bottom (W)	10.00	Ft
Total Length of Scour Hole	18.48	Ft
Total Width of Scour Hole	19.00	Ft
D(50) calc.	4	in
D(50) to be used	4	in
Thickness (Thk.)	9	in



TW = 2 year storm el. 93.09

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

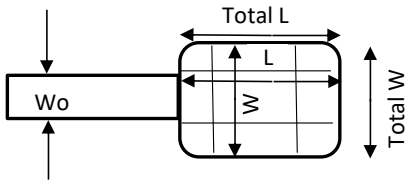
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
Page:
By:

Structure: FES 213
25 Year Storm

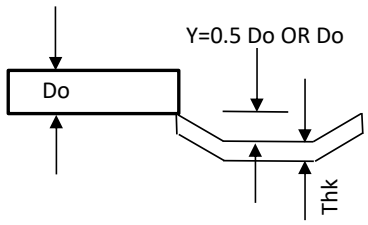
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	24.20	CFS
Culvert Horiz Dim.=	4.00	Ft
Tailwater Depth=	2.26	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	4.00	Ft
Depth of Hole (Y)	2.00	Ft
Length of Bottom (L)	12.00	Ft
Width of Bottom (W)	8.00	Ft
Total Length of Scour Hole	24.00	Ft
Total Width of Scour Hole	20.00	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 98.76

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

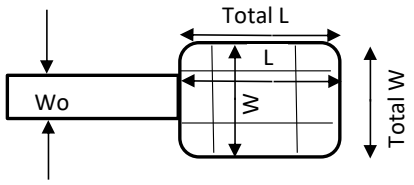
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
Page:
By:

Structure: FES 226
25 Year Storm

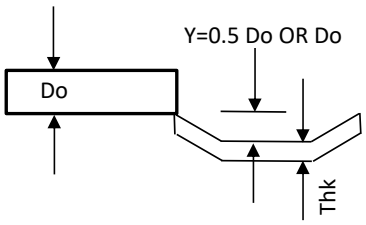
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	6.14	CFS
Culvert Horiz Dim.=	1.50	Ft
Tailwater Depth=	2.26	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.50	Ft
Depth of Hole (Y)	0.75	Ft
Length of Bottom (L)	4.50	Ft
Width of Bottom (W)	3.00	Ft
Total Length of Scour Hole	9.00	Ft
Total Width of Scour Hole	7.50	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 98.76

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
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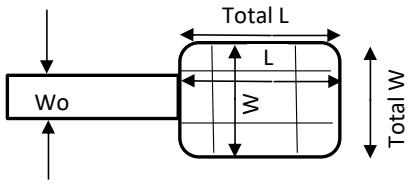
By:

Structure: FES 237
25 Year Storm

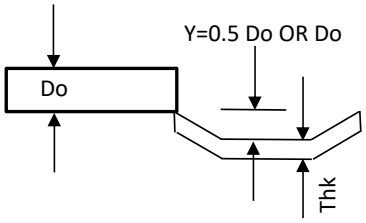
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	1.99	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.58	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW = 2 year storm el. 99.58

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
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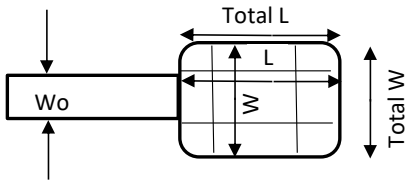
By:

Structure: FES 329
25 Year Storm

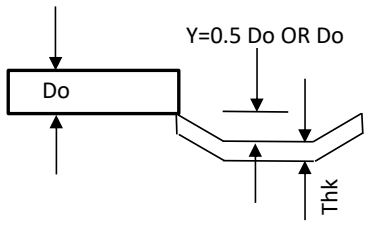
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	2.05	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.90	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	1.00	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	9.75	Ft
Total Width of Scour Hole	8.50	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm el. 94.90

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/19/2024
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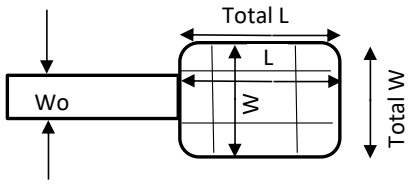
By:

Structure: FES 346
25 Year Storm

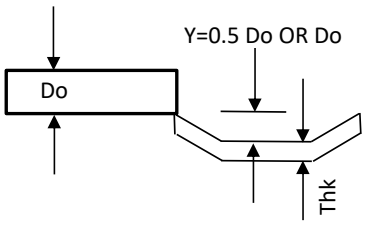
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	56.99	CFS
Culvert Horiz Dim.=	3.50	Ft
Tailwater Depth=	2.36	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	3.50	Ft
Depth of Hole (Y)	1.75	Ft
Length of Bottom (L)	10.50	Ft
Width of Bottom (W)	7.00	Ft
Total Length of Scour Hole	21.00	Ft
Total Width of Scour Hole	17.50	Ft
D(50) calc.	2	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 87.61

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/19/2024
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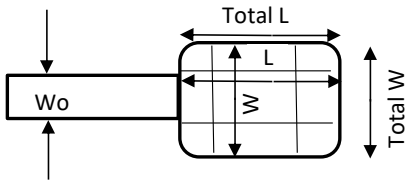
By:

Structure: FES 352
25 Year Storm

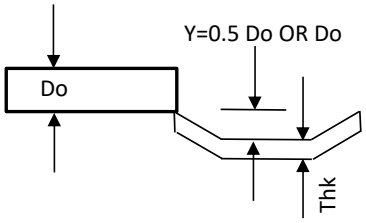
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	8.10	CFS
Culvert Horiz Dim.=	2.50	Ft
Tailwater Depth=	2.36	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	2.50	Ft
Depth of Hole (Y)	1.25	Ft
Length of Bottom (L)	7.50	Ft
Width of Bottom (W)	5.00	Ft
Total Length of Scour Hole	15.00	Ft
Total Width of Scour Hole	12.50	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 87.61

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

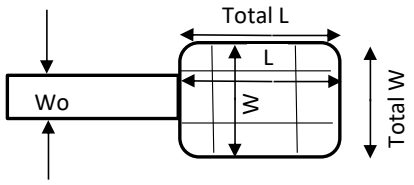
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/19/2020
Page:
By:

Structure: FES 359
25 Year Storm

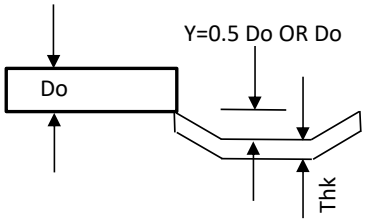
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	21.70	CFS
Culvert Horiz Dim.=	2.00	Ft
Tailwater Depth=	1.95	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	2.00	Ft
Depth of Hole (Y)	1.00	Ft
Length of Bottom (L)	6.00	Ft
Width of Bottom (W)	4.00	Ft
Total Length of Scour Hole	12.00	Ft
Total Width of Scour Hole	10.00	Ft
D(50) calc.	1	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 84.51

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev:
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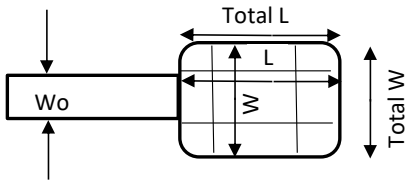
By:

Structure: FES 361
25 Year Storm

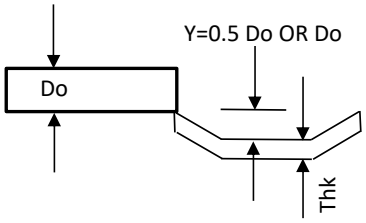
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	13.28	CFS
Culvert Horiz Dim.=	2.00	Ft
Tailwater Depth=	1.00	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	2.00	Ft
Depth of Hole (Y)	1.00	Ft
Length of Bottom (L)	6.00	Ft
Width of Bottom (W)	4.00	Ft
Total Length of Scour Hole	12.00	Ft
Total Width of Scour Hole	10.00	Ft
D(50) calc.	1	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev:
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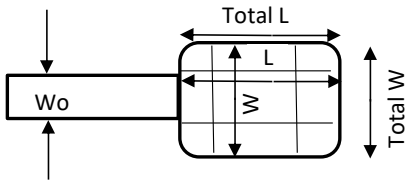
By:

Structure: FES 365
25 Year Storm

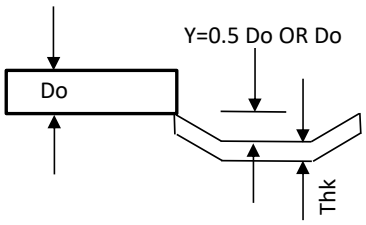
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	7.15	CFS
Culvert Horiz Dim.=	1.50	Ft
Tailwater Depth=	0.75	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.50	Ft
Depth of Hole (Y)	0.75	Ft
Length of Bottom (L)	4.50	Ft
Width of Bottom (W)	3.00	Ft
Total Length of Scour Hole	9.00	Ft
Total Width of Scour Hole	7.50	Ft
D(50) calc.	1	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev:
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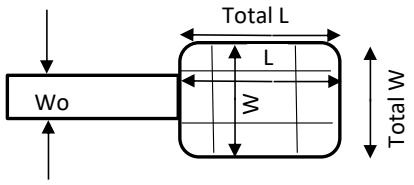
By:

Structure: FES 367
25 Year Storm

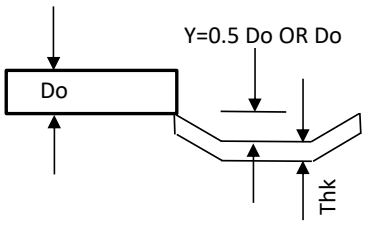
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	12.37	CFS
Culvert Horiz Dim.=	1.50	Ft
Tailwater Depth=	0.75	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.50	Ft
Depth of Hole (Y)	0.75	Ft
Length of Bottom (L)	4.50	Ft
Width of Bottom (W)	3.00	Ft
Total Length of Scour Hole	9.00	Ft
Total Width of Scour Hole	7.50	Ft
D(50) calc.	2	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

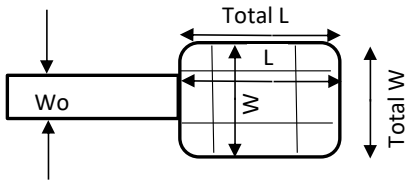
PROJECT: Princeton Nurseries

Date: 9/19/2024
Rev:
Page:
By:

Structure: FES 372
25 Year Storm

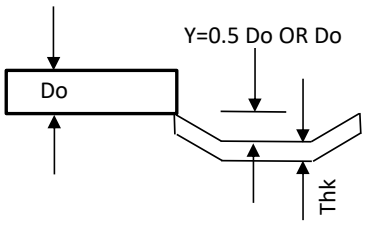
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	62.20	CFS
Culvert Horiz Dim.=	2.50	Ft
Tailwater Depth=	7.50	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	2.50	Ft
Depth of Hole (Y)	1.25	Ft
Length of Bottom (L)	7.50	Ft
Width of Bottom (W)	5.00	Ft
Total Length of Scour Hole	15.00	Ft
Total Width of Scour Hole	12.50	Ft
D(50) calc.	1	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 84.51

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

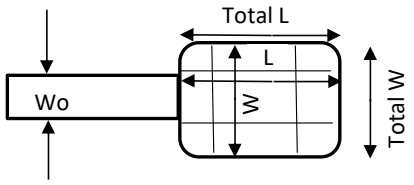
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev:
Page:
By:

Structure: FES 408
25 Year Storm

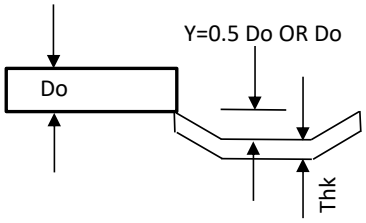
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	21.90	CFS
Culvert Horiz Dim.=	2.50	Ft
Tailwater Depth=	1.25	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	2.50	Ft
Depth of Hole (Y)	1.25	Ft
Length of Bottom (L)	7.50	Ft
Width of Bottom (W)	5.00	Ft
Total Length of Scour Hole	15.00	Ft
Total Width of Scour Hole	12.50	Ft
D(50) calc.	1	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

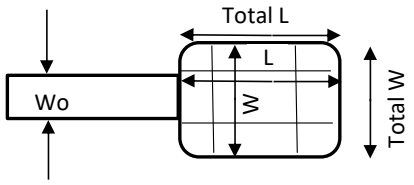
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
Page:
By:

Structure: FES 418
25 Year Storm

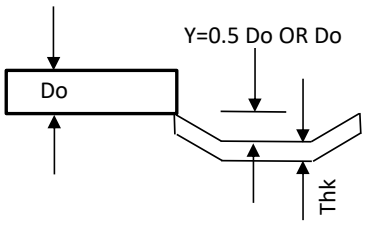
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	49.82	CFS
Culvert Horiz Dim.=	3.00	Ft
Tailwater Depth=	1.69	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	3.00	Ft
Depth of Hole (Y)	1.50	Ft
Length of Bottom (L)	9.00	Ft
Width of Bottom (W)	6.00	Ft
Total Length of Scour Hole	18.00	Ft
Total Width of Scour Hole	15.00	Ft
D(50) calc.	2	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW = 2 year storm el. 93.09

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

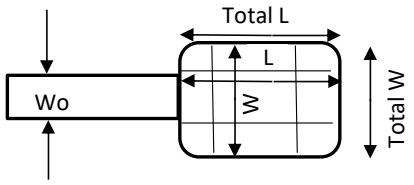
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/19/2024
Page:
By:

Structure: FES 436
25 Year Storm

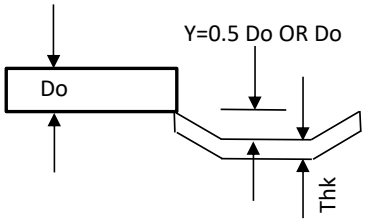
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	3.02	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	1.02	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.62	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.47	Ft
Total Width of Scour Hole	6.22	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 101.12

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

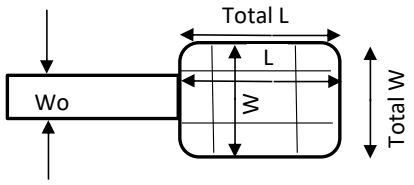
PROJECT: Princeton Nurseries

Date: 9/14/2024
Rev:
Page:
By:

Structure: FES 463
25 Year Storm

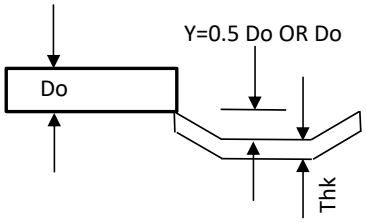
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	30.70	CFS
Culvert Horiz Dim.=	2.50	Ft
Tailwater Depth=	7.51	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	2.50	Ft
Depth of Hole (Y)	1.25	Ft
Length of Bottom (L)	7.50	Ft
Width of Bottom (W)	5.00	Ft
Total Length of Scour Hole	15.00	Ft
Total Width of Scour Hole	12.50	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 84.51

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

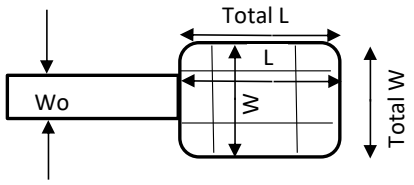
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
Page:
By:

Structure: FES 541
25 Year Storm

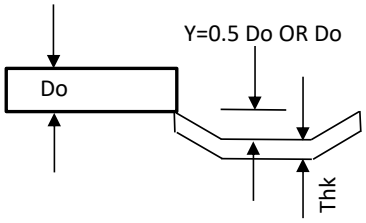
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	12.59	CFS
Culvert Horiz Dim.=	2.00	Ft
Tailwater Depth=	1.32	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	2.00	Ft
Depth of Hole (Y)	1.00	Ft
Length of Bottom (L)	6.00	Ft
Width of Bottom (W)	4.00	Ft
Total Length of Scour Hole	12.00	Ft
Total Width of Scour Hole	10.00	Ft
D(50) calc.	1	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW = 2 year storm el. 92.32

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

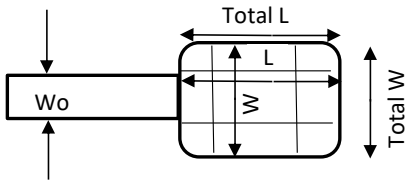
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
Page:
By:

Structure: FES 551
25 Year Storm

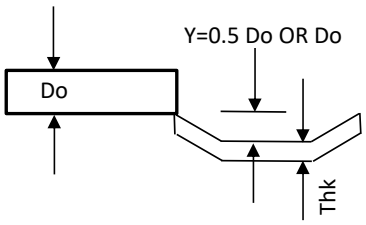
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	6.22	CFS
Culvert Horiz Dim.=	1.50	Ft
Tailwater Depth=	1.72	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.50	Ft
Depth of Hole (Y)	0.75	Ft
Length of Bottom (L)	4.50	Ft
Width of Bottom (W)	3.00	Ft
Total Length of Scour Hole	9.00	Ft
Total Width of Scour Hole	7.50	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 108.12

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

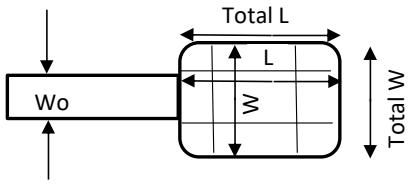
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
Page:
By:

Structure: FES 586
25 Year Storm

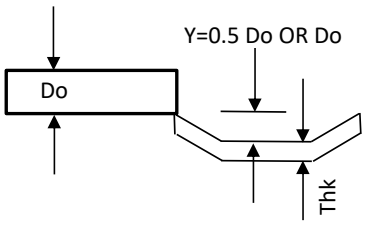
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	6.69	CFS
Culvert Horiz Dim.=	2.00	Ft
Tailwater Depth=	1.31	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	2.00	Ft
Depth of Hole (Y)	1.00	Ft
Length of Bottom (L)	6.00	Ft
Width of Bottom (W)	4.00	Ft
Total Length of Scour Hole	12.00	Ft
Total Width of Scour Hole	10.00	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm elev. 101.31

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

CONDUIT OUTLET PROTECTION - SCOUR HOLE

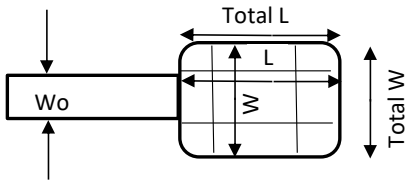
PROJECT: Princeton Nurseries

Date: 6/14/2024
Rev: 9/18/2024
Page:
By:

Structure: FES 588
25 Year Storm

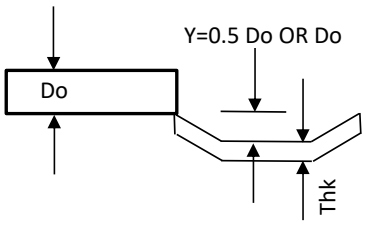
DESIGN CRITERIA:

Design Storm	25	yr
Flow Rate, Q=	2.27	CFS
Culvert Horiz Dim.=	1.50	Ft
Tailwater Depth=	1.76	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in



SCOUR HOLE DIMENSIONS:

Culvert Vert Dim. (Do)	1.50	Ft
Depth of Hole (Y)	0.75	Ft
Length of Bottom (L)	4.50	Ft
Width of Bottom (W)	3.00	Ft
Total Length of Scour Hole	9.00	Ft
Total Width of Scour Hole	7.50	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in



TW= 2 year storm el. 98.76

NEW JERSEY SOIL EROSION & SEDIMENT CONTROL STANDARDS

FOR

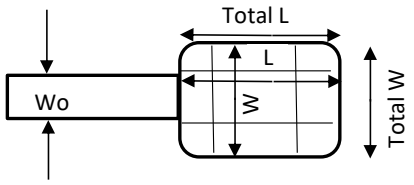
CONDUIT OUTLET PROTECTION - SCOUR HOLE

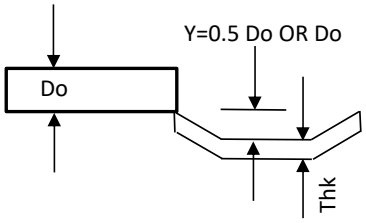
PROJECT: Princeton Nurseries

Date: 9/18/2024
Rev:
Page:
By:

Structure: FES 595
100 Year Storm

DESIGN CRITERIA:		
Routed Outflow Design Storm	100	yr
Flow Rate, Q=	6.69	CFS
Culvert Horiz Dim.=	1.25	Ft
Tailwater Depth=	2.54	*Ft
Filter Fabric Used?	y	(Y/N)
D(50) min.	3	in
SCOUR HOLE DIMENSIONS:		
Culvert Vert Dim. (Do)	1.25	Ft
Depth of Hole (Y)	0.63	Ft
Length of Bottom (L)	3.75	Ft
Width of Bottom (W)	2.50	Ft
Total Length of Scour Hole	7.53	Ft
Total Width of Scour Hole	6.28	Ft
D(50) calc.	0	in
D(50) to be used	3	in
Thickness (Thk.)	6	in

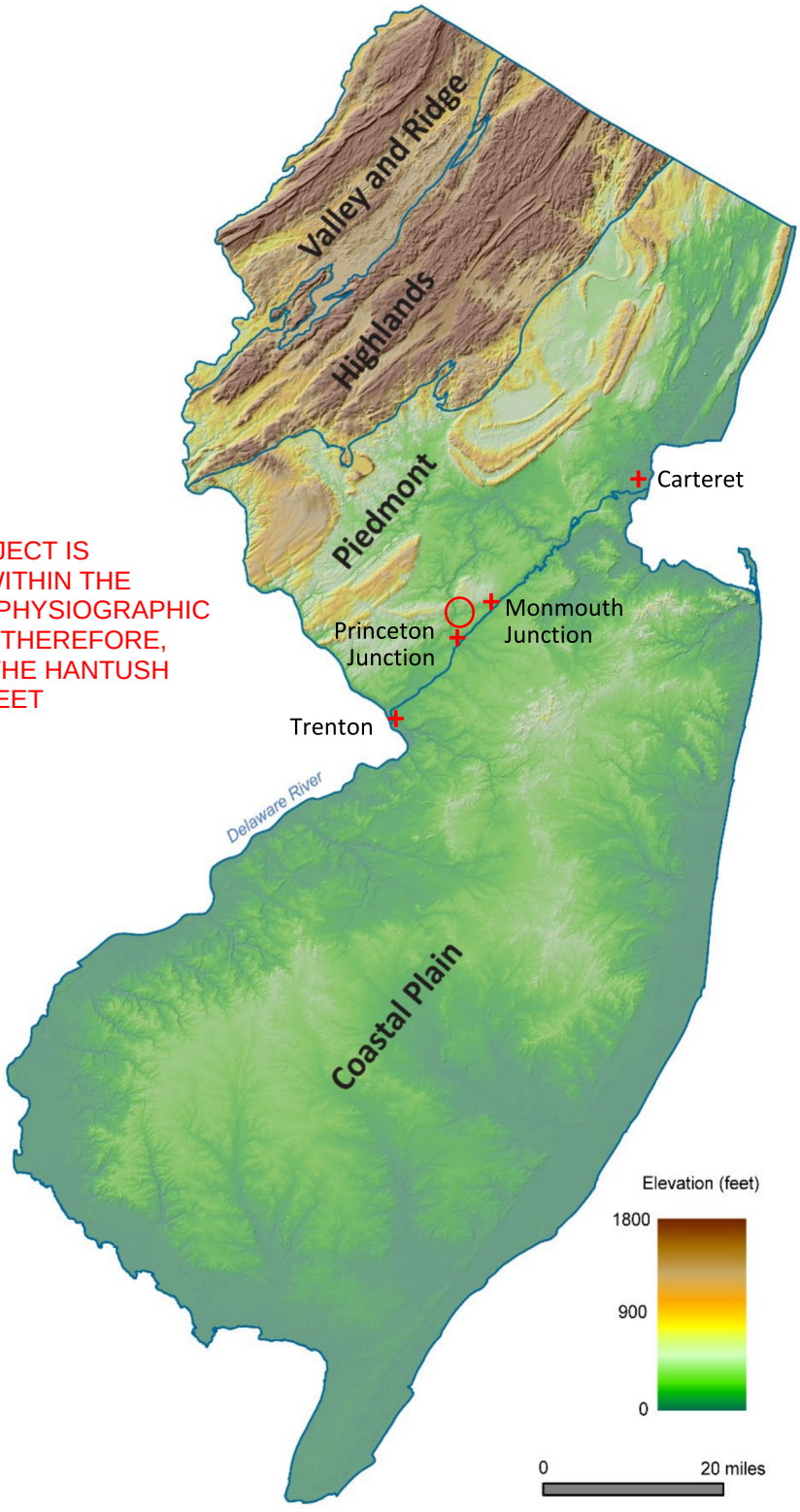




TW= 2 year storm el. 91.54

Appendix G

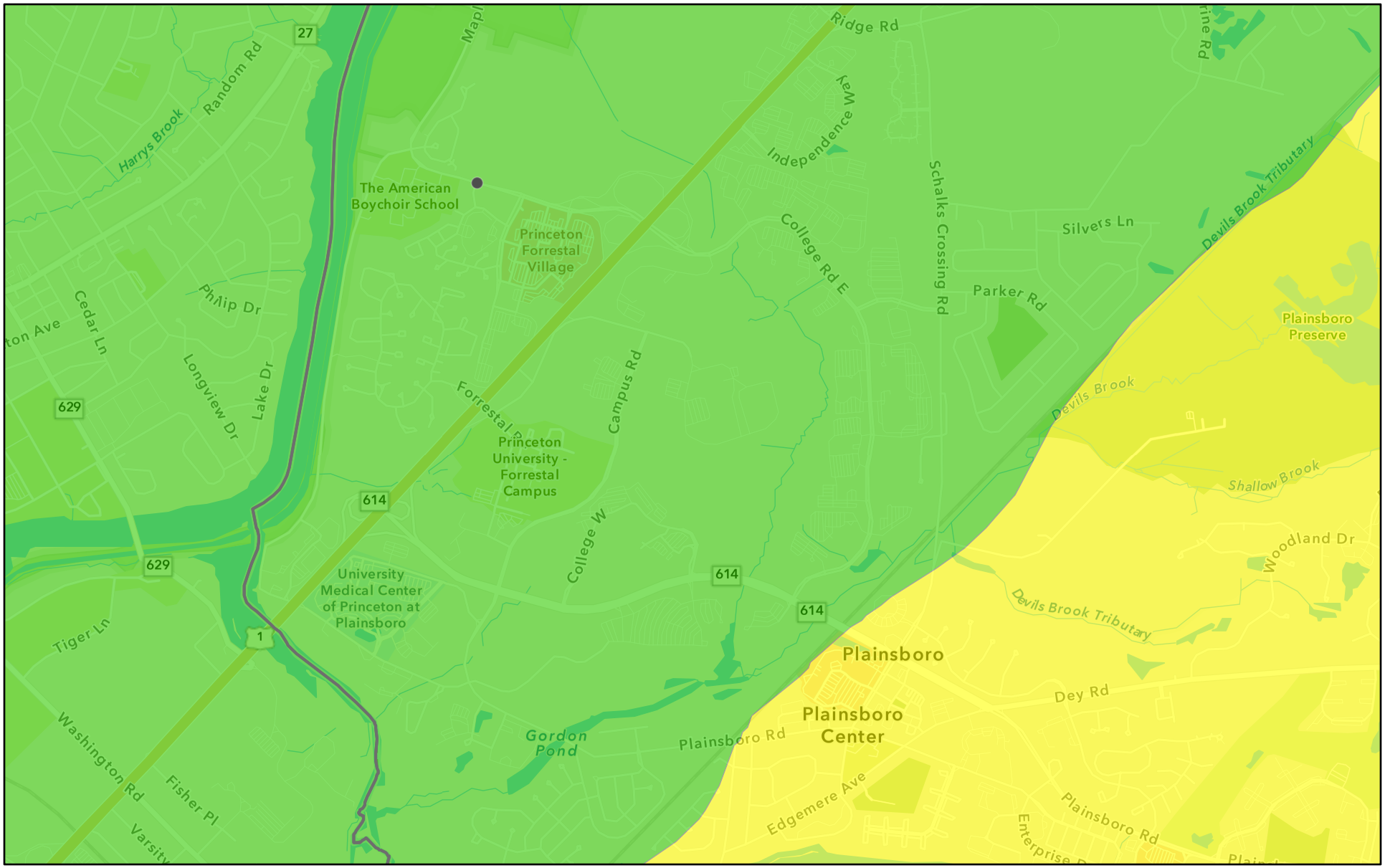
Physiographic Provinces of New Jersey.



NOTE: PROJECT IS LOCATED WITHIN THE PIEDMONT PHYSIOGRAPHIC PROVINCE. THEREFORE, Kh=R FOR THE HANTUSH SPREADSHEET

Imagery modified from New Jersey Geological Survey Information Circular, "Physiographic Provinces of New Jersey," 2006 and used with permission

NJ-GeoWeb



6/11/2024, 3:35:37 PM

1:36,112

0 0.23 0.45 0.9 mi

0 0.38 0.75 1.5 km

County Boundaries

Piedmont

Physiographic Provinces

Coastal Plain

Monmouth County NJ GIS, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US

New Jersey Department of Environmental Protection

Monmouth County NJ GIS, New Jersey Office of GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS | NJDEP | NJ Department of Community Affairs, Local Planning Services

ii. N.J.A.C. 7:8-5.7(c)2 and N.J.A.C. 7:8-5.7(d)2 both allow an alternative to calculating the current and projected rainfall precipitation depths by using separate rainfall totals for each county. The 24-hour county rainfall amount provided by NRCS is duplicated here and can be found online at:

https://www.nrcs.usda.gov/sites/default/files/2022-09/NJ%2024%20Hour%20Rainfall%20Data.pdf.

Table 5-1: County-Specific, New Jersey 24-Hour Rainfall Frequency Data

NEW JERSEY 24 HOUR RAINFALL FREQUENCY DATA

Rainfall amounts in Inches

County	1 year	2 year	5 year	10 year	25 year	50 year	100 year
Atlantic	2.72	3.31	4.30	5.16	6.46	7.61	8.90
Bergen	2.75	3.34	4.27	5.07	6.28	7.32	8.47
Burlington	2.77	3.36	4.34	5.18	6.45	7.56	8.81
Camden	2.73	3.31	4.25	5.06	6.28	7.34	8.52
Cape May	2.67	3.25	4.22	5.07	6.34	7.47	8.73
Cumberland	2.69	3.27	4.25	5.09	6.37	7.49	8.76
Essex	2.85	3.44	4.40	5.22	6.44	7.49	8.66
Gloucester	2.71	3.29	4.24	5.05	6.29	7.36	8.55
Hudson	2.73	3.31	4.23	5.02	6.19	7.20	8.31
Hunterdon	2.80	3.38	4.26	5.00	6.09	7.02	8.03
Mercer	2.74	3.31	4.23	5.01	6.19	7.20	8.33
Middlesex	2.76	3.35	4.30	5.12	6.36	7.43	8.63
Monmouth	2.79	3.38	4.38	5.23	6.53	7.66	8.94
Morris	2.94	3.54	4.47	5.24	6.37	7.32	8.35
Ocean	2.81	3.42	4.45	5.33	6.68	7.87	9.20
Passaic	2.87	3.47	4.42	5.23	6.43	7.47	8.62
Salem	2.69	3.26	4.20	5.00	6.22	7.28	8.45
Somerset	2.76	3.34	4.25	5.01	6.15	7.13	8.21
Sussex	2.68	3.22	4.02	4.70	5.72	6.60	7.58
Union	2.80	3.39	4.35	5.17	6.42	7.49	8.69
Warren	2.78	3.34	4.18	4.89	5.93	6.83	7.82

Notes: The average point rainfall amounts listed above were developed from data contained in NOAA Atlas 14 Volume 2.

Point rainfall estimates for specific locations may be obtained from the Precipitation Frequency Data Server located at http://www.nws.noaa.gov/ohd/hdsc/

For most hydrologic design procedures, the rainfall amounts listed above may be rounded to the nearest tenth of an inch.

b. N.J.A.C.7:8-5.7(c) requires the precipitation depths of the current 2-, 10- and 100-year storm events be determined by multiplying the NOAA rainfall data with the current precipitation adjustment factors in Table 5-5 at N.J.A.C.7:8-5.7(c)2. N.J.A.C.7:8-5.7(d) requires the precipitation depths of the projected 2-, 10- and 100-year storm events be determined by multiplying the NOAA rainfall data with the future precipitation change factors in Table 5-6 at N.J.A.C.7:8-5.7(d). Table 5-5 and Table 5-6 from the Rules are reproduced below.

Current Precipitation Adjustment Factors at N.J.A.C. 7:8-5.7(c) as Table 5-5

County	Current Precipitation Adjustment Factors		
	2-year Design Storm	10-year Design Storm	100-year Design Storm
Atlantic	1.01	1.02	1.03
Bergen	1.01	1.03	1.06
Burlington	0.99	1.01	1.04
Camden	1.03	1.04	1.05
Cape May	1.03	1.03	1.04
Cumberland	1.03	1.03	1.01
Essex	1.01	1.03	1.06
Gloucester	1.05	1.06	1.06
Hudson	1.03	1.05	1.09
Hunterdon	1.02	1.05	1.13
Mercer	1.01	1.02	1.04
Middlesex	1.00	1.01	1.03
Monmouth	1.00	1.01	1.02
Morris	1.01	1.03	1.06
Ocean	1.00	1.01	1.03
Passaic	1.00	1.02	1.05
Salem	1.02	1.03	1.03
Somerset	1.00	1.03	1.09
Sussex	1.03	1.04	1.07
Union	1.01	1.03	1.06
Warren	1.02	1.07	1.15

Future Precipitation Change Factors at N.J.A.C. 7:8-5.7(d) as Table 5-6

County	Future Precipitation Change Factors		
	2-year Design Storm	10-year Design Storm	100-year Design Storm
Atlantic	1.22	1.24	1.39
Bergen	1.20	1.23	1.37
Burlington	1.17	1.18	1.32
Camden	1.18	1.22	1.39
Cape May	1.21	1.24	1.32
Cumberland	1.20	1.21	1.39
Essex	1.19	1.22	1.33
Gloucester	1.19	1.23	1.41
Hudson	1.19	1.19	1.23
Hunterdon	1.19	1.23	1.42
Mercer	1.16	1.17	1.36
Middlesex	1.19	1.21	1.33
Monmouth	1.19	1.19	1.26
Morris	1.23	1.28	1.46
Ocean	1.18	1.19	1.24
Passaic	1.21	1.27	1.50
Salem	1.20	1.23	1.32
Somerset	1.19	1.24	1.48
Sussex	1.24	1.29	1.50
Union	1.20	1.23	1.35
Warren	1.20	1.25	1.37

Appendix H