

North Shore Levee West Segment

Hoquiam, Washington

Interior Drainage Analysis

CLOMR Submittal

December 30, 2020



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1. Introduction

1.1 – PROJECT DESCRIPTION AND OBJECTIVE

The objective of the North Shore Levee West Segment project is to design a levee for the City of Hoquiam, which once constructed will result in a revision of the National Flood Insurance Program (NFIP) mapping, removing the project areas from the 100-year flood plain. See Figure 1 – Vicinity Map below for project location.

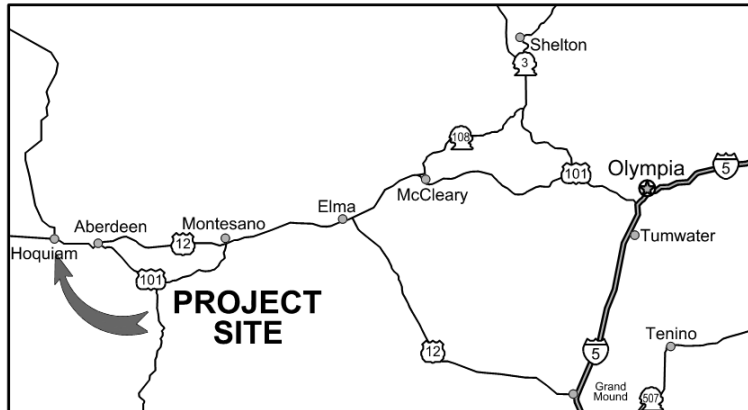


Figure 1. Vicinity Map

The base flood elevation (BFE) for the project is elevation 13.71 feet NAVD 88. One (1) foot of required freeboard results in levee improvements to be constructed to elevation 14.71 feet. Areas of high ground are identified along the levee alignment at elevation 13.71 feet or above. High ground does not need to be raised to the design height.

The proposed levee alignment consists of approximately 5.2 miles through mostly developed residential and industrial areas, with a small portion in forested areas. Of the 5.2 miles of levee alignment, 2.8 miles utilizes natural high ground, resulting in 2.4 miles of proposed levee improvements. Proposed improvements include concrete flood walls, sheet pile flood walls, earthen levees, a raised access road, and stoplog closures that establish a barrier for flood relief. The levee structure varies in height from between 0 and 6 feet to establish a top of levee elevation above the BFE plus freeboard elevation 14.71'. The levee structure will be overbuilt to account for settlement occurring during future accreditation cycles. Concrete flood walls are anticipated to settle no more than 1" and will be constructed to the height of 15.3'; resulting in a crest height of 15.2' following long-term settlement. Earthen levee structures are anticipated to settle a maximum of 11.2" and will be constructed to a height of 15.7'; resulting in a crest height of 14.77" following long-term settlement. Sheet pile walls are not anticipated to settle and will be constructed to a crest height of 15.2'

1.2 – SCOPE OF STUDY

This study has been prepared by KPFF Consulting Engineers for the City of Hoquiam to support the North Shore Levee West Segment Conditional Letter of Map Revision (CLOMR) submittal. The purpose of the study is to:

- Identify outfall locations and associated backflow requirements
- Identify locations where the interior storm drain system requires separation of the exterior (outside levee protection) storm drain system.
- Delineate interior storm drainage basins relative to the proposed levee and storm outfall locations.
- Identify the locations of existing and proposed storm drainage pump stations and outfalls.
- Review of existing topography and existing infrastructure to evaluate potential interior ponding.

The report has been prepared based on the levee improvements identified in the CLOMR submittal package, dated December 30, 2020.

2. Existing Conditions

2.1 – TOPOGRAPHY

The project area is bound by Grays Harbor to the south, the Hoquiam River to the north and east, and a mixture of hills and flat high ground to the west. The majority of the levee alignment consists of flat, low lying areas, elevation 10 feet NAVD 88 or below, and are typically located near the Hoquiam River. These areas typically consist of residential development. The areas to the west consist of hills and are classified as high ground. The majority of the levee will be constructed in areas that vary in elevation from 10 to 13 feet.

Existing grades near the Hoquiam River and Grays Harbor are flat and generally less than 5%. The hills to the northwest of the project have a mixture of moderate and steep slopes that include grades ranging from up to 65%.

The north terminus of the levee alignment is at the intersection of Highway 101 and Queen Avenue, and then heads northeast along Queen Avenue. The levee follows the Hoquiam River, meandering south utilizing existing high ground, proposed earthen levee, concrete, and sheet pile structures. At the mouth of Hoquiam River and Grays Harbor, the levee alignment turns west tying into existing high ground. The south terminus is a short section of wall that completes the project at the intersection of Paulson Road & SR109. The specific delineation of the basins is provided in the Drainage Basin Map located in Appendix A.

2.2 – DEVELOPMENT PATTERNS

The City includes a mixture of residential, commercial, and forested areas. Residential uses occupy a majority of the project area with minimal undeveloped areas remaining. Commercial uses occupy sections of the proposed levee alignment along Levee Street. Minimal portions of the proposed alignment are located in forested areas. As identified in the Comprehensive Surface Water Management Plan (CSWMP) the identified land uses have the following percent of impervious surface coverage:

TABLE 1.

Land Use	Impervious Area
Residential	35%
Commercial	86%
Industrial	86%

Redevelopment of properties within the Cities is anticipated but storm drainage runoff from the interior basins is not expected to change significantly in the future because the City is already significantly developed.

2.3 – SOIL CHARACTERISTICS

The USDA Natural Resource Conservation Service Wed Soil Survey identifies the primary soil type for the project area to be udorthents and is consistent with the geotechnical evaluations identified in the Geotechnical Analysis and Levee Certification Report dated March 17, 2020 and included in the CLOMR submittal package. As identified in Section 3.3 of the Geotechnical Analysis, subsurface explorations were performed along the proposed alignment to adequately analyze the subsurface conditions. Subsurface explorations are categorized into five (5) separate reaches along the proposed levee alignment; Reach 1 – North Alignment Alluvium, Reach 2 – Hoquiam River Alluvium, Reach 3 – North Hoquiam Alluvium, Reach 4 – South Hoquiam Alluvium, and Reach 5 – Grays Harbor Alluvium. Overall, subsurface explorations found that the upper alluvium (generally extending to approximately elevation -20.0) consists of sands, clays, and organics. The lower alluvium (approximately elevation -20.0 and below) generally consists of silt clays, fine sands, and organics and is classified as stiff. Areas containing the historic placement of fill along the Hoquiam River are also present in subsurface explorations. Generally, the historic fill consists of sands, clays, and silts and is located 5 to 10 feet below ground surface. Subsurface explorations establish the groundwater depth of approximately 3 to 5 feet below the ground surface.

3. Existing Interior Drainage

3.1 – EXISTING STORM DRAINAGE SYSTEM

The City of Hoquiam’s stormwater drainage system includes a series of catch basins, pipes, and drainage ditches that convey stormwater runoff to natural waterways or pump stations that then discharge water to the Hoquiam River or Grays Harbor. Much of the existing pipe system in the lowlands was initially constructed as a combined sanitary and storm system. In the 1950s, the City began to construct a separate system to convey sanitary wastewater to treatment plants. The older pipe system has been dedicated for stormwater use. This program was completed in the early 1980s, and several pump stations were installed in the 1950s to handle the separated flows.

Stormwater runoff flows downhill, following the natural gradient, and is collected via catch basins and ditches. The runoff is then conveyed via gravity to pump stations, gravity outfalls, or a combination of the two. Pump stations allow for stormwater discharge during high tide events when gravity discharge is not feasible. See Table 7 below for existing pump station details. All pump stations are located at the low points in the conveyance system and generally located near either the Hoquiam River or Grays Harbor. See Section 4.1 – General Improvements for proposed pump station improvements.

Many of the existing pump stations are equipped with variable frequency drives to support the pumping of fluctuating flow rates. Storm drain pipes are nearly flat given the existing topography of the lowland areas. Pump stations provide increased capacities within the nearly flat system by creating a greater hydraulic gradient that draws water through the pipes to the pump station.

3.2 – EXISTING OUTFALLS

The City of Hoquiam has 16 documented storm drain outfalls serving the study area consisting of a mixture of pumped outfalls and gravity outfalls. Nine (9) of the outfalls serve areas within levee protection and seven (7) serve areas outside of levee protection (or Flood Zone X areas of elevation: 13.71 feet NAVD 88 and higher). All outfall functions and conditions have been field verified by the project team to the extent possible.

EXISTING OUTFALLS SERVING AREAS OF LEVEE PROTECTION

Of the nine (9) existing outfalls serving areas of levee protection, six (6) are pump station forcemain outfalls and three (3) are gravity outfalls. See table 2 below for a summary of the existing outfalls and the proposed improvements at each outfall.

TABLE 2 EXISTING OUTFALLS SERVING AREAS OF LEVEE PROTECTION SUMMARY

Outfall Name/Number	Drainage Basin	Existing Outfall Type	Description	Outfall Improvements
Ramer Street Pump Station	Ramer Street	Pumped	Interior Drainage	Backflow Prevention Structure
8th Street	8th Street	Gravity	Interior Drainage	Remove Outfall
Queen Avenue Pump Station	Queen Avenue	Pumped	Interior Drainage	Backflow Prevention Structure
Emerson Avenue Pump Station	Emerson Avenue	Pumped	Interior Drainage	Backflow Prevention Structure
10th Street Pump Station	10th Street	Pumped	Interior Drainage	New Forcemain Outfall
K St Pump Station	K Street	Pumped	Interior Drainage	Backflow Prevention Structure
Adams S Extension Pump Station	Adams Street	Pumped	Interior Drainage	Backflow Prevention Structure

Outfall #6	Industrial Basin 06	Gravity	Interior Drainage	Remove Outfall
Outfall #7	Industrial Basin 07	Gravity	Interior Drainage	New Forcemain Outfall

* See section 4.1 for more information on backflow prevention structure proposed at existing pump station outfalls

Following construction of the proposed improvements shown in Section 4, all outfalls associated with the interior drainage of the levee system will be provided with either existing or proposed pumping facilities.

EXISTING OUTFALLS SERVING AREAS OUTSIDE OF LEVEE OF PROTECTION

Of the seven (7) existing outfalls serving drainage basins outside of levee protection, one (1) is a pump station forcemain outfall and six (6) are gravity outfalls. The existing gravity outfalls serve areas of high ground (Flood Zone X, elev: 13.71 feet NAVD 88 and higher).

ZONE X OUTFALLS:

Outfalls draining areas of high ground (Flood Zone X, elev: 13.71 feet NAVD 88 and higher) are included for informational purposes and to provide a complete delineation of stormwater basins. No work or additional analysis is required for these drainages, as they are located entirely outside areas of levee protection and do not affect the interior drainage system

TABLE 3 EXISTING OUTFALLS SERVING AREAS OUTSIDE OF LEVEE PROTECTION SUMMARY

Outfall Name/Number	Drainage Basin	Existing Outfall Type	Description	Outfall Improvements
Cottage Street Pump Station	Cottage Street	Pumped	Outside Levee Protection	None
Adams Street Extension	5th Street	Gravity	High Ground Drainage	Replace Tide Gate
Outfall #1	Industrial Basin 01	Gravity	High Ground Drainage	None
Outfall #2	Industrial Basin 02	Gravity	High Ground Drainage	None
Outfall #3	Industrial Basin 03	Gravity	High Ground Drainage	None
Outfall #4	Industrial Basin 04	Gravity	High Ground Drainage	None
Outfall #5	Industrial Basin 05	Gravity	High Ground Drainage	None

3.3 – DRAINAGE BASIN DELINEATION & MODELING

The following documents were reviewed for determining drainage basin delineation:

- City of Hoquiam Storm System Base Map. File provided by Maul Foster Alongi.
- City of Hoquiam Storm Pump As-built drawings & sketches.
- Timberworks Master Plan provided by Maul Foster Alongi.
- Aerial Survey prepared by David C. Smith & Associates from photography dated 4/8/2016.
- City of Hoquiam – Comprehensive Surface Water Management Plan by Tetra Tech (July 2000).

Drainage basins were delineated using the CSWMP and additional field survey to verify infrastructure not identified in the CSWMP. Drainage basin delineation is performed utilizing existing topography, existing stormwater conveyance system, existing outfalls and/or pump stations, and the proposed levee alignment. See Table 4 below for drainage basin information. See Appendix A for Drainage Basin Map including the proposed levee alignment.

Drainage basins located outside levee protection, as well as, from areas of high ground located immediately adjacent to the levee have also been delineated and quantified below. These basins do not contribute to flows associated with the interior drainage but are included for informational purposes only and no work or additional analysis is planned for these drainages.

TABLE 4 – DRAINAGE BASIN INFORMATION

Drainage Basin	Total Basin Area	Existing Pump Capacity	
	(Acres)	(cfs)	(gpm)
Cottage Street	44.05	5.6	2,500
Ramer Street	81.11	7.8	3,500
8th Street	16.57	N/A	N/A
5th Street	26.45	N/A	N/A
Queen Avenue	110.31	25.4	11,400
Emerson Avenue	245.62	73.5	33,000
10th Street	22.17	4.5	2,000
K Street	118.27	15.6	7,000
Adams Street	111.36	73.5	33,000
Industrial Basin 01	75.52	N/A	N/A
Industrial Basin 02	8.59	N/A	N/A
Industrial Basin 03	4.99	N/A	N/A
Industrial Basin 04	33.58	N/A	N/A
Industrial Basin 05	3.53	N/A	N/A
Industrial Basin 06	35.55	N/A	N/A
Industrial Basin 07	113.71	N/A	N/A

*A majority of the delineated drainage basins have one individual outfall, but in a few cases, a basin has multiple outfalls. For this analysis, the primary outfall was used for basin delineation. See Interior Drainage Basin Map in Appendix A.

STORMWATER RUNOFF MODELING

Drainage basin stormwater modeling is intended to develop the necessary pumping capacity for the pump station improvements. Storm drainage basin runoff calculations were performed using Western Washington Hydrology Model version 2012 software (WWHM2012) and EPA SWMM. WWHM2012 is a continuous simulation hydrology model utilizing historic rainfall data to analyze the 1% annual chance (100-year) rainfall and is the accepted software to calculate stormwater runoff in Washington State. Rainfall hydrographs produced by WWHM2012 are then routed through pipe networks in the EPA SWMM model to produce the annual peaks for each basin identified in Table 5 below. See Appendix B for WWHM Modeling Reports and Appendix C for EPA SWMM Modeling Reports. The digital EPA SWMM files were included in the 9-21-2020 CLOMR submittal package.

The following inputs were included in the stormwater runoff modeling analysis:

- Soil type and land cover (residential, industrial, forested)
- Existing topography & grades
- Existing stormwater conveyance and collection system

Storm drainage modeling assumptions and calculation constraints include:

- Detention or retention stormwater facilities are not planned as part of this project. (Storage facilities may become part of future design)

- Basin runoff is calculated utilizing a 1-hr time step for the 24-hr rainfall event.
- All gravity storm drain outfalls are submerged and tide gates are closed.

TABLE 5 – STORMWATER RUNOFF SUMMARY

Basin/Outfall	Calculated Storm Runoff to Basin Outfall					
	Q2-YR		Q25-YR		Q100-YR	
	(cfs)	(gpm)	(cfs)	(gpm)	(cfs)	(gpm)
8th Street	7.29	3,272	8.18	3,671	8.37	3,757
10th Street	11.83	5,310	13.40	6,014	13.76	6,176
Adams Street	40.98	18,393	63.25	28,389	65.19	29,259
Emerson Avenue	52.26	23,456	59.95	26,907	60.96	27,361
K Street	22.51	10,103	24.25	10,884	24.69	11,082
Queen Avenue	26.56	11,921	29.40	13,196	30.38	13,635
Paulson Road	92.25	41,405	129.13	57,958	141.65	63,578

Drainage basin mainline or “trunk lines” have been analyzed to determine overall capacity, tributary flows, and to evaluate the potential for ponding to occur adjacent to pumping facilities. This study did not review minor conveyance facilities and or sidelines. Analysis of the conveyance system, as discussed above, was used to determine the corresponding hydraulic grade line (HGL) elevation at each node within the models. The HGL was then compared to surface elevations to determine to potential for ponding. As shown below, the conveyance system develops a surcharged condition, but water surface elevations remain below the existing grade. See the ‘Node Summary’ table for each drainage system in Appendix C. Table 6 below provides existing surface elevation and corresponding HGL at the existing pump station locations.

TABLE 6 – PUMP STATION CONVEYANCE CAPACITY CONFIRMATION SUMMARY

Existing Pump Station	Node Element ID	Surface Elevation	HGL Elevation
Adams Street	53 PS	11.64	-0.08
Emerson Avenue	31 Pump House	0.22	-4.31
K Street	OS-2	1.12	-0.93
Queen Avenue	N23	10.7	-0.52

8TH/10TH:

The project proposes to remove the exiting 8th Street outfall and reroute basin flows to the upgraded 10th Street pump station as identified in section 4.1 below. Combining the two drainage basins results in 21.6 cfs of stormwater runoff during the 25-year storm event. The installation of the levee will not modify the existing drainage basin or conveyance system and therefore will not modify the tributary basin flow. Therefore, it is confirmed that the existing conveyance system, coupled with the new pump station, is of adequate capacity and will not create areas of ponding greater than 1.0’.

PAULSON ROAD PUMP STATION

The proposed Paulson Road Pump Station is determined to have a pumping capacity of 129.1 cfs as identified in section 4.1 below. The proposed 48” pump station intake pipe has a capacity of 143.6 cfs, therefore confirming that the proposed conveyance system is adequately sized for the 25-year storm event.

JOINT PROBABILITY ANALYSIS:

A joint probability analysis of the exterior flooding (coastal) event occurring at the same time as interior flooding (rainfall) to determine the controlling 100-year flood event (annual 1% chance exceedance event) is not applicable for this project. The existing stormwater pump stations are designed to evacuate interior floodwaters to Grays Harbor, regardless of the height of the tide (exterior flooding). All outfalls within the proposed levee boundary will be pumped; therefore, the probability of interior flooding and coastal flooding events are independent and are not considered in the analysis.

4. Proposed Stormwater System Improvements

4.1 – GENERAL IMPROVEMENTS

This project will build upon the work already underway within the City of Hoquiam. Currently the City is in the process of upgrading and modernizing their stormwater infrastructure. As part of this levee project, one pump station will be relocated within levee protection, a new pump facility installed to replace a gravity outfall, and additional infrastructure built to separate flows while providing back watering protection.

PUMP STATION IMPROVEMENTS:

Proposed improvements to pump stations is limited to the installation of two new facilities to manage interior drainage. A summary of existing and proposed pumping facilities is provided in Table 7.

1. The 10th Street pump station is currently located outside the proposed levee alignment and requires relocation to within levee protection limits. This work includes the following:
 - Remove the existing pump station located outside levee protection.
 - Reroute 8th Street drainage basin flows to the proposed 10th Street pump station and remove the existing 8th Street basin outfall.
 - Upgrade pump station capacity from 2,000 gpm to a minimum of 9,700 gpm
 - Pumps are designed to pump the 25-year rainfall event.
 - Emergency backup generator
 - Replace and upgrade the existing 10th Street outfall. The proposed 10th Street Pump Station will contain internal backwater protection.
2. A new pump station (Paulson Road Pump Station) will be constructed at the intersection of Paulson Road and SR 109 at the western terminus of the project. This pump station will replace Outfall #6 and Outfall #7 from the corresponding industrial basins. This work includes the following:
 - Remove the existing gravity culverts and tide gate
 - Reroute drainage basin flows from Industrial Basin #6 and #7 to the proposed pump station
 - Pump station capacity a minimum of 58,000 gpm
 - Pumps are designed to pump the 25-year rainfall event.
 - Emergency backup generator
 - Install a storm drainage backwater control manhole and new outfall across Paulson Road.

TABLE 7 – PUMP STATION SUMMARY

Pump Station	Existing Pump Capacity		Proposed Capacity		# of Pumps	Notes
	(cfs)	(gpm)	(cfs)	(gpm)		
Cottage Street	5.6	2,500	N/A	N/A	1	Serves areas outside levee protection.
Ramer Street	7.8	3,500	N/A	N/A	2	Does not require improvements for CLOMR / LOMR approval.
Queen Avenue	25.4	11,400	N/A	N/A	2	Does not require improvements for CLOMR / LOMR approval.
Emerson Avenue	73.5	33,000	N/A	N/A	2	Does not require improvements for CLOMR / LOMR approval.
10th Street	4.5	2,000	21.6	9,700	2	8th Street basin rerouted to improved 10th St pump station
K Street	15.6	7,000	N/A	N/A	2	Does not require improvements for CLOMR / LOMR approval.
Adams Street	73.5	33,000	N/A	N/A	2	Does not require improvements for CLOMR / LOMR approval.
Paulson Rd	N/A	N/A	129.1	58,000	2	New pump station

Backup Pump	A trailer mounted, 3,000 GPM pump will be available in case of pump station failure.
Emergency Power	A trailer mounted generator will provide emergency pump station backup power when necessary.

GENERAL STORMWATER INFRASTRUCTURE IMPROVEMENTS:

- Installation of new trunklines to convey flows generated from inside levee protection to centralized locations where control structures allow flows to exit levee protection during normal operations. Decoupling of the system is required to remove conveyance pathways so that floodwaters do not enter the conveyance system from the unprotected side of the levee and cause flooding within the protected side.
- Installation of check valves/control structures to eliminate the potential for backwatering during flood events. As noted above, areas inside levee protection will continue to flow into areas outside levee protection during normal operation. Control structures provide a location for shear gates and check valves to be installed on gravity lines as identified in Figure 2 below. Centralizing levee utility penetrations to a handful of control structures allows City staff to more efficiently monitor potential backwatering and take necessary measures.

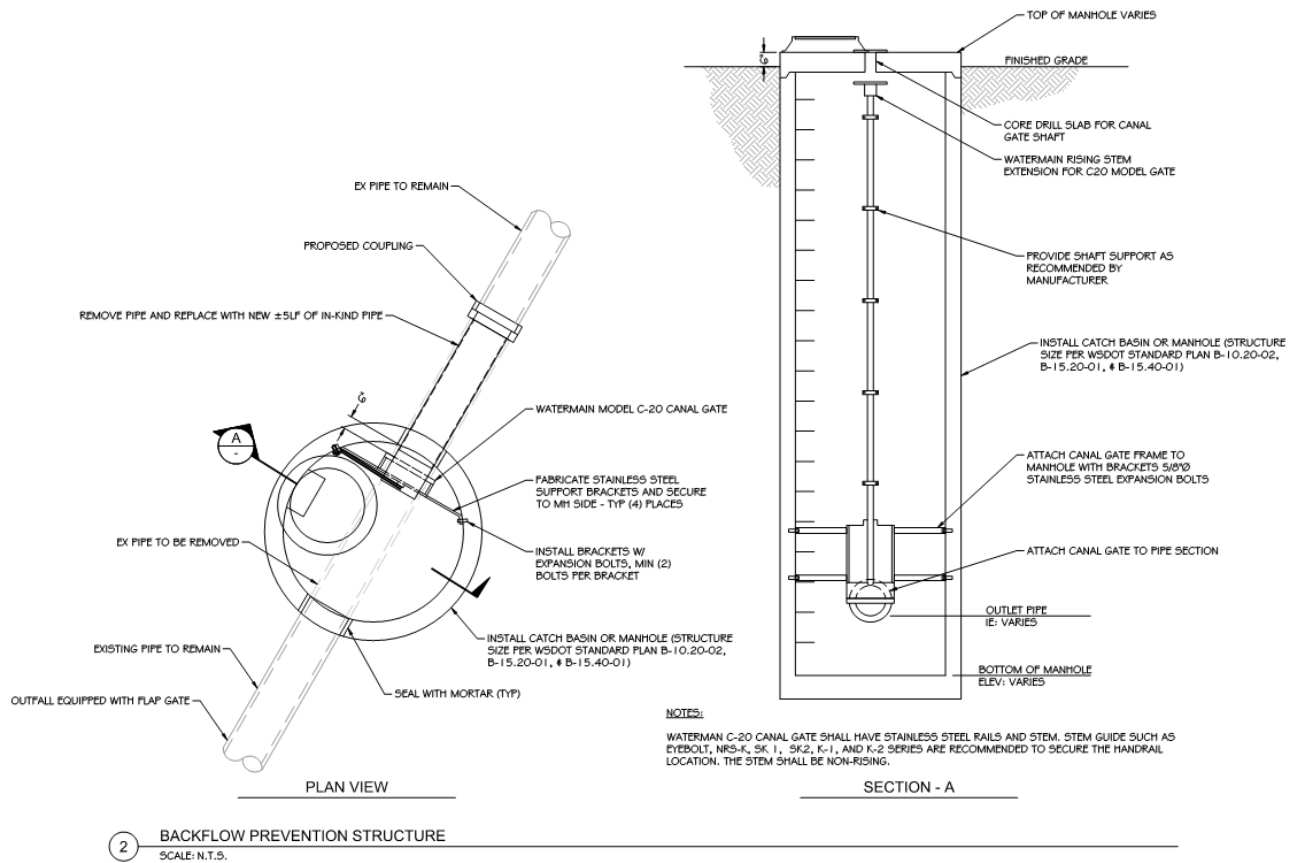


Figure 2. Backflow Prevention Structure

- The existing pump stations to remain will also be retrofitted with redundant closures. During flood events these pump outfalls would be pressurized and would not normally provide a conduit for backwatering. Redundant closures are provided in the contingency of a station failure.
- Tide gates and check valves will continue to allow stormwater to drain to the outfall and/or pump station and will not allow the backflow of floodwaters into the protected side of the levee. The control structure is to be located near the proposed levee alignment and is to be equipped with a combination of a tide gate at the outfall, a shear gate in the control structure, and/or inline check valves within conveyance pipes. See Table 8 below for storm drain penetration summary.
- In locations where utilities cross beneath the levee structure, flood waters have the potential to cause seepage through the utility trenches. Seepage degrades the levee structure and can cause failures of the levee and/or the utility pipe. To mitigate the rate of seepage through utility pipes, utility trenches will be backfilled with material recommended by the USACE and the project Geotechnical Engineer. See Section 4.2 for utility trench seepage & leakage mitigation.
- Localized drainage improvements will be necessary to eliminate the potential for nuisance flooding in areas adjacent to the levee or where roadway/sidewalk improvements are being constructed. See Section 4.3 for additional information.
- Relocation of existing storm drainage conveyance and collection infrastructure. Various elements of existing storm drainage infrastructure will need to be relocated/replaced as part of this project. Where new sidewalk and roadway improvements are proposed as part of the levee project, catch basins and conveyance lines will require relocation and/or replacement depending upon their condition.

TABLE 8 – STORMWATER PENETRATION SUMMARY

Levee Station	Diameter	Type of Closure Device	Name (if applicable)
9+38	18"	Backflow Prevention Structure	Conveyance System Connection
9+59	18"	Backflow Prevention Structure	Conveyance System Connection
9+76	18"	Backflow Prevention Structure	Conveyance System Connection
17+26	8"	Backflow Prevention Structure	Conveyance System Connection
29+23	14"	Backflow Prevention Structure & Pump Station Double Check Assembly	Queen Street Pump Station Outfall
54+53	48"	Backflow Prevention Structure & Pump Station Double Check Assembly	Ramer Street Pump Station Outfall
100+85	72"	Backflow Prevention Structure & Pump Station Double Check Assembly	Emerson Street Pump Station Outfall
121+92	18"	Backflow Prevention Structure & Pump Station Double Check Assembly	10th Street Pump Station Outfall
130+76	12"	Backflow Prevention Structure	Conveyance System Connection
134+93	12"	Backflow Prevention Structure	Conveyance System Connection
138+82	36"	Backflow Prevention Structure	Conveyance System Connection
145+55	36"	Backflow Prevention Structure & Pump Station Double Check Assembly	K Street Pump Station Outfall
N: 615,813 E: 791,582	36"	Existing Tide Gate & Backflow Prevention Structure	Adams Pump Station/ 5th Street Extension Outfall
201+06	48"	Backflow Prevention Structure & Pump Station Double Check Assembly	Paulson Road Pump Station Outfall

4.2 – SEEPAGE AND LEAKAGE

SEEPAGE THROUGH LEVEE

The rate of expected seepage through earthen portions of the levee has been analyzed by GeoEngineers and is discussed in the *Geotechnical Analysis and Levee Certification Report* in Section 3.4 *Embankment Seepage and is included with the original 4-17-2020 CLOMR submittal package*. The rate through the earthen portion was determined to be minimal and has no influence on the findings of the interior drainage analysis.

LEAKAGE THROUGH TRENCHES AND PIPES

The potential for leakage and seepage is expected at utility trenches (existing and proposed) beneath the proposed levee structure. The project recommends a soil layer consisting of WSDOT Specification 9-03.1(2) (Fine Aggregate for Portland Concrete Cement) which will reduce and/or eliminate potential seepage through utility trenches. The filter material should be placed from the utility penetration or other seepage source up to the elevation of existing ground. The filter material should extend about 1 foot beyond the seepage source parallel to the levee and should extend at least 5 feet perpendicular. In locations where utility pipes penetrate the proposed levee structure, such as concrete or sheet pile flood walls, the utilities will be cast in concrete to prohibit seepage through the utility penetration.

See below for mitigation measures to lower the risk of leakage, as well as, utility closure gate devices to seal the utility pipes in an emergency.

Storm Drain System

In addition to eliminating seepage through utility trenches, a combination of tide gates, canal gates, and check valves are proposed to be installed in catch basins and manholes for storm drain pipes that pass beneath the levee structure. Pipe closure redundancy is proposed to allow for multiple means of closing off the pipe in both preventative and emergency scenarios. See Plan Set sheet C5.3 for additional backwater control structure information and details.

Sanitary Sewer System

Sanitary sewer pipes have potential to be a source of minor seepage at locations where pipes cross beneath the levee structure. There are numerous locations where sanitary sewer main pipes cross the proposed levee alignment. In addition to eliminating seepage through utility trenches, the continued use of solid locking lids on the sanitary sewer manholes will help mitigate the rate of seepage. Preliminary analysis indicates that the anticipated seepage through the sanitary sewer system into the interior drainage basins is negligible. Existing sewer pump stations are currently handling any seepage into the sewer system during flooding events. It is assumed that once the levee has been constructed, a majority of the sewer system will be included within levee protection, thus minimizing the total seepage entering the system and requiring pumping.

Water System

Pressurized water systems are not anticipated to allow floodwaters to travel through the pipes into levee protection. During an emergency, if the water system loses pressure and begins to convey floodwater into levee protection, water main check valves, located on both sides of levee protection, will be used to shut off the system. The probability of this happening is extremely low. As mentioned above, potential seepage through the utility trench will be mitigated with fine aggregate or cement.

Gas Main

Pressurized gas mains are not be affected by the levee structure or inundation by flooding events; therefore no leakage is anticipated for these utilities that cross beneath the levee.

Dry Utilities

It is not anticipated that dry utilities, such as power and communication conduits, will provide pathways for leakage into areas of levee protection. To date, high flood events have not caused issues associated with floodwater entering dry utility lines.

The construction of levee improvements will not change the current condition and will provide the placement of fine aggregate or cement in utility trenches as mentioned above to mitigate any potential for leakage.

4.3 – INTERIOR PONDING ANALYSIS

Interior ponding has been evaluated through the use topographic data, existing storm drainage infrastructure and locations of proposed conveyance systems. Drainages adjacent to the levee were evaluated based on the existing drainage patterns and the potential for ponding to form against the levee. Through this evaluation no areas with ponding greater than 1-ft will be formed through the creation of the levee system.

In areas where a levee structure is proposed along City streets, ponded water that may be formed against the wall will sheet flow to the nearby City drainage collection points and be conveyed to pumping facilities.

Several areas were determined to have the potential for ponding greater than 0.5 ft, but less than 1 ft. These areas are associated with proposed earthen levee segment along the Hoquiam River and have been noted on the plans. Additional drainage infrastructure and or regrading is proposed to eliminate this potential for this nuisance ponding.

The potential for ponding at pump stations was also evaluated and was determined to be unlikely to occur. Constrictions within the existing system significantly limit the amount of the flow capable of reaching existing pump stations. As noted below future conveyance improvements are planned by the City which will be accompanied by increased pump station capacity.

Interior drainage working map is included in with the digital files showing the locations of potential ponding, as well as, general drainage patterns adjacent to the proposed levee.

4.4 – FUTURE IMPROVEMENTS

The City of Hoquiam is currently working to upgrade and modernize their storm drainage infrastructure. This work has included the recent construction of new pump stations, new conveyance lines, and electrical upgrades. The City is pursuing this work in conjunction with the proposed levee project.

Although large scale conveyance and pump station upgrades are not required for the issuance of a future LOMR, the City recognizes that the existing system is aging and requires improvements to remain functional and best serve the community. Proposed pump station pumping capacities are identified in Table 7 above. Pump stations and conveyance improvements will be designed and constructed as funding becomes available.

Redevelopment of commercial and industrial lands is considered highly likely in the future. These projects may change drainage patterns discussed above and require additional storm drainage infrastructure.

5.0 – SUMMARY

The North Shore Levee West Segment project, once constructed, will result in revisions to the National Flood Insurance Programming in the majority of the areas of West Hoquiam. The 5.2 mile long levee consisting of various types of walls, closures, and high ground will remove the project areas from the 100-year floodplain. The levee structure varies in height from between 0 and 6 feet to provide levee protection above the BFE plus one (1) foot of required freeboard (14.71' NAVD88). The levee structures will be overbuilt to provide for settlement and sea-level rise to create a top of levee at elevation 15.2'. The levee alignment also utilizes existing areas above elevation 13.71' as existing high ground and does not require one foot of freeboard for CLOMR / LOMR approval.

This drainage analysis evaluated the City of Hoquiam's storm drainage system to determine system improvements required for the issuance of a LOMR. The identified improvements consist of decoupling the existing system, installing redundant closures, seepage mitigation, and new pump stations at 10th Street and Paulson Rd. As a result of this work the overall functionality of the system will be improved and ponding reduced within levee protection.

Additional improvements will be constructed as funding becomes available and consists of conveyance lines and pump station upgrades identified in the CSWMP.

Appendix A













Interior Drainage Basin Map

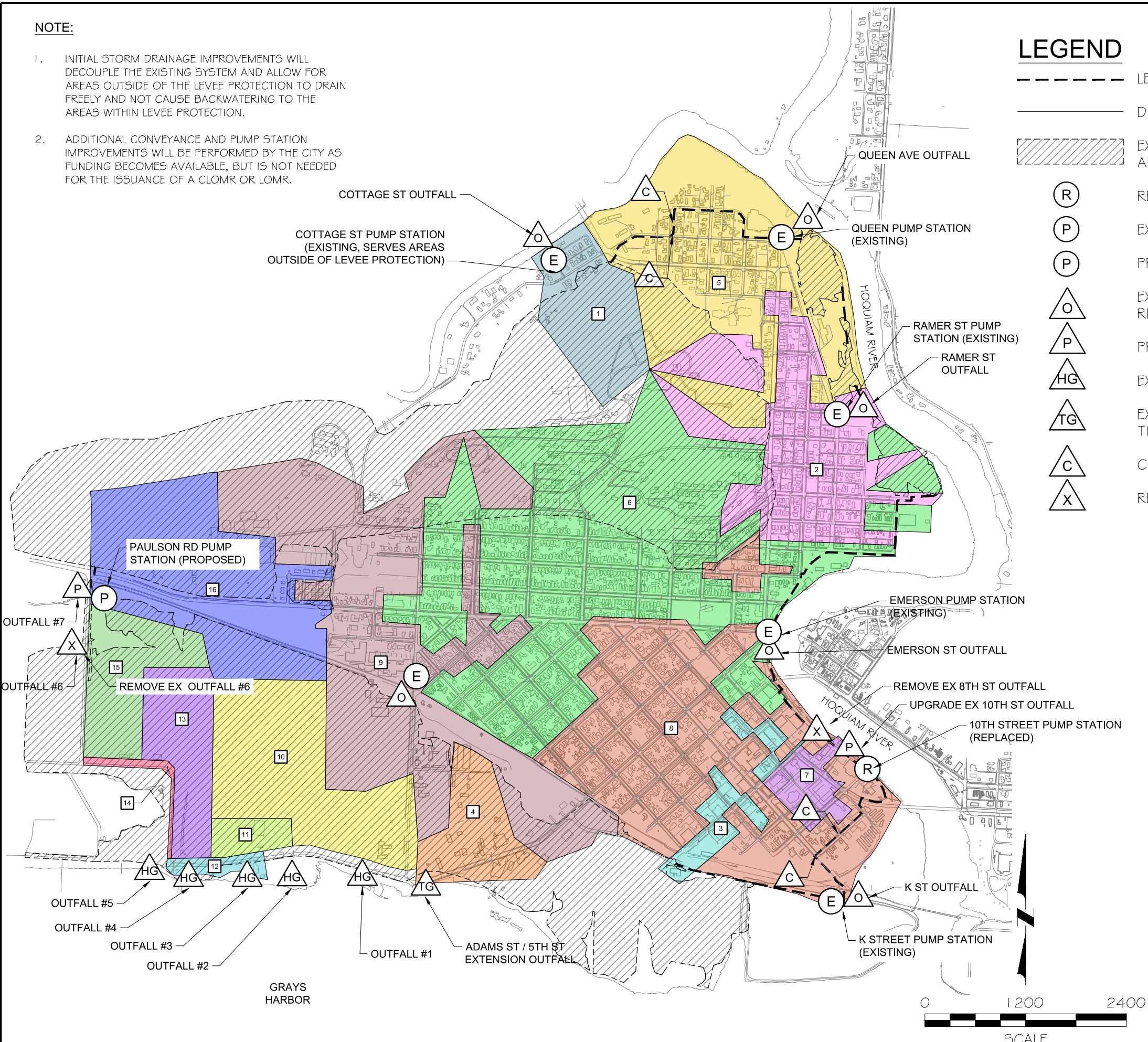
FILE: I:\2019\10181900007 - Northshore Levee West Segment\CADD\DWG\EXHIBITS\DRAINAGE BASINS\DB-1-OVERALL BASIN MAP PLOTTED: Feb 10, 2021 - 10:38:22

NOTE:

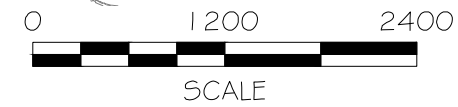
- INITIAL STORM DRAINAGE IMPROVEMENTS WILL DECOUPLE THE EXISTING SYSTEM AND ALLOW FOR AREAS OUTSIDE OF THE LEVEE PROTECTION TO DRAIN FREELY AND NOT CAUSE BACKWATERING TO THE AREAS WITHIN LEVEE PROTECTION.
- ADDITIONAL CONVEYANCE AND PUMP STATION IMPROVEMENTS WILL BE PERFORMED BY THE CITY AS FUNDING BECOMES AVAILABLE, BUT IS NOT NEEDED FOR THE ISSUANCE OF A CLOMR OR LOMR.

LEGEND

-  LEVEE CREST
-  DRAINAGE BASIN LIMITS
-  EXISTING HIGH GROUND (ELV: 145.71' NAVD 88 & ABOVE)
-  REMOVE & REPLACE EXISTING PUMP STATION
-  EXISTING PUMP STATION TO BE MODIFIED
-  PROPOSED PUMP STATION
-  EXISTING PUMP STATION FORCEMAIN OUTFALL TO REMAIN
-  PROPOSED FORCEMAIN OUTFALL
-  EXISTING GRAVITY OUTFALL TO REMAIN
-  EXISTING OUTFALL TO REMAIN, REPLACE EXISTING TIDE GATE
-  CONVEYANCE SYSTEM CONNECTION
-  REMOVE EXISTING OUTFALL



DRAINAGE BASIN INFORMATION		
#	BASIN	AREA (AC)
1	COTTAGE	44.05
2	RAMER ST	81.11
3	8TH ST	16.57
4	5TH ST	26.45
5	QUEEN ST	110.31
6	EMERSON ST	246.62
7	10TH ST	22.17
8	K ST	118.27
9	ADAMS ST	111.36
10	INDUSTRIAL BASIN 01	75.52
11	INDUSTRIAL BASIN 02	8.59
12	INDUSTRIAL BASIN 03	4.99
13	INDUSTRIAL BASIN 04	33.58
14	INDUSTRIAL BASIN 05	3.53
15	INDUSTRIAL BASIN 06	35.55
16	INDUSTRIAL BASIN 07	113.71



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kpff
 CALL 48 HOURS BEFORE YOU DIG 811
 PROJ NO: 10181900007 DRAWN BY: BAL CHECKED BY: SDB DATE: 12/30/2020 SCALE: 1" = 1200'
NORTH SHORE LEVEE WEST SEGMENT
INTERIOR DRAINAGE BASINS
OVERALL BASIN MAP
 CLOMR EXHIBIT
DB-1
 SHEET 1 OF 1

Appendix B

WWHM Modeling Reports

8th Street Basin WWHM Modeling Report

WWHM2012 PROJECT REPORT

Project Name: 8TH STREET OUTFALL BASIN
Site Name: 8TH STREET OUTFALL BASIN
Site Address:
City :
Report Date: 8/12/2019
Gage : Montesano
Data Start : 1955/10/01
Data End : 2009/09/30
(adjusted) **Precip Scale:** 0.00
Version : 2013/09/11

Low Flow Threshold for POC 1 : 50 Percent of the 2 Year

High Flow Threshold for POC 1: 50 year

Low Flow Threshold for POC 2 : 50 Percent of the 2 Year

High Flow Threshold for POC 2: 50 year

Low Flow Threshold for POC 3 : 50 Percent of the 2 Year

High Flow Threshold for POC 3: 50 year

Low Flow Threshold for POC 4 : 50 Percent of the 2 Year

High Flow Threshold for POC 4: 50 year

Low Flow Threshold for POC 5 : 50 Percent of the 2 Year

High Flow Threshold for POC 5: 50 year

Low Flow Threshold for POC 6 : 50 Percent of the 2 Year

High Flow Threshold for POC 6: 50 year

Low Flow Threshold for POC 7 : 50 Percent of the 2 Year

High Flow Threshold for POC 7: 50 year

Low Flow Threshold for POC 8 : 50 Percent of the 2 Year

High Flow Threshold for POC 8: 50 year

Low Flow Threshold for POC 9 : 50 Percent of the 2 Year

High Flow Threshold for POC 9: 50 year

Low Flow Threshold for POC 10 : 50 Percent of the 2 Year

High Flow Threshold for POC 10: 50 year

Low Flow Threshold for POC 11 : 50 Percent of the 2 Year

High Flow Threshold for POC 11: 50 year

Low Flow Threshold for POC 12 : 50 Percent of the 2 Year

High Flow Threshold for POC 12: 50 year

Low Flow Threshold for POC 13 : 50 Percent of the 2 Year

High Flow Threshold for POC 13: 50 year

Low Flow Threshold for POC 14 : 50 Percent of the 2 Year

High Flow Threshold for POC 14: 50 year

Low Flow Threshold for POC 15 : 50 Percent of the 2 Year

High Flow Threshold for POC 15: 50 year

Low Flow Threshold for POC 16 : 50 Percent of the 2 Year

High Flow Threshold for POC 16: 50 year

PREDEVELOPED LAND USE

Name : SD-26

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Pasture, Flat	.971
C, Lawn, Flat	.076
Pervious Total	1.047
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.78
Impervious Total	2.78
Basin Total	3.827

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-25

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.135
Pervious Total	0.135
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.992
Impervious Total	0.992
Basin Total	1.127

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-24

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.542
Impervious Total	0.542
Basin Total	0.542

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-42

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.267
Pervious Total	0.267
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.955
Impervious Total	1.955
Basin Total	2.222

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-39

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.047
Pervious Total	0.047

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.032
Impervious Total	1.032
Basin Total	1.079

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-17
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.013
Pervious Total	0.013
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.36
Impervious Total	0.36
Basin Total	0.373

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-1
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.063
Pervious Total	0.063
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.231
Impervious Total	0.231

Basin Total 0.294

Element Flows To:
Surface Interflow Groundwater

Name : NODE-2

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.565
Pervious Total	0.565
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.653
Impervious Total	1.653
Basin Total	2.218

Element Flows To:
Surface Interflow Groundwater

Name : NODE-3

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.129
Impervious Total	0.129
Basin Total	0.129

Element Flows To:

Surface Interflow Groundwater

Name : NODE-4

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.404
Pervious Total	0.404
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.514
Impervious Total	0.514
Basin Total	0.918

Element Flows To:
Surface Interflow Groundwater

Name : NODE-5

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.217
Impervious Total	0.217
Basin Total	0.217

Element Flows To:
Surface Interflow Groundwater

Name : NODE-6

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.302
Impervious Total	0.302
Basin Total	0.302

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-7

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.089
Pervious Total	0.089
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.25
Impervious Total	0.25
Basin Total	0.339

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-8

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
--------------------------	--------------

Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.083
Impervious Total	0.083
Basin Total	0.083

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-9
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.099
Impervious Total	0.099
Basin Total	0.099

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-10
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.184
Impervious Total	0.184

Basin Total 0.184

Element Flows To:
Surface Interflow Groundwater

MITIGATED LAND USE

Name : SD-26

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Pasture, Flat	.971
C, Lawn, Flat	.076
Pervious Total	1.047
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.78
Impervious Total	2.78
Basin Total	3.827

Element Flows To:
Surface Interflow Groundwater

Name : SD-25

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.135
Pervious Total	0.135
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.992
Impervious Total	0.992
Basin Total	1.127

Element Flows To:
Surface Interflow Groundwater

Name : SD-24
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.542
Impervious Total	0.542
Basin Total	0.542

Element Flows To:
Surface Interflow Groundwater

Name : SD-42
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.267
Pervious Total	0.267
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.955
Impervious Total	1.955
Basin Total	2.222

Element Flows To:
Surface Interflow Groundwater

Name : SD-39

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.047
Pervious Total	0.047
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.032
Impervious Total	1.032
Basin Total	1.079

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-17

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.013
Pervious Total	0.013
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.36
Impervious Total	0.36
Basin Total	0.373

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-1

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.063
Pervious Total	0.063
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.231
Impervious Total	0.231
Basin Total	0.294

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-2

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.565
Pervious Total	0.565
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.653
Impervious Total	1.653
Basin Total	2.218

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-3

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
--------------------------	--------------

Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.129
Impervious Total	0.129
Basin Total	0.129

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-4
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.404
Pervious Total	0.404
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.514
Impervious Total	0.514
Basin Total	0.918

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-5
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.217
Impervious Total	0.217

Basin Total 0.217

Element Flows To:
Surface Interflow Groundwater

Name : NODE-6

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.302
Impervious Total	0.302
Basin Total	0.302

Element Flows To:
Surface Interflow Groundwater

Name : NODE-7

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.089
Pervious Total	0.089
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.25
Impervious Total	0.25
Basin Total	0.339

Element Flows To:
Surface Interflow Groundwater

Name : NODE-8

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.083
Impervious Total	0.083
Basin Total	0.083

Element Flows To:
Surface Interflow Groundwater

Name : NODE-9

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.099
Impervious Total	0.099
Basin Total	0.099

Element Flows To:
Surface Interflow Groundwater

Name : NODE-10

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.184
Impervious Total	0.184
Basin Total	0.184

Element Flows To:		
Surface	Interflow	Groundwater

ANALYSIS RESULTS

Stream Protection Duration

Predeveloped Landuse Totals for POC #1
Total Pervious Area:1.047
Total Impervious Area:2.78

Mitigated Landuse Totals for POC #1
Total Pervious Area:1.047
Total Impervious Area:2.78

Flow Frequency Return Periods for Predeveloped. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.261814
5 year	2.712324
10 year	2.957746
25 year	3.22429
50 year	3.398045
100 year	3.554742

Flow Frequency Return Periods for Mitigated. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.261814
5 year	2.712324
10 year	2.957746
25 year	3.22429

50 year 3.398045
100 year 3.554742

Stream Protection Duration		
Annual Peaks for Predeveloped and Mitigated. POC #1		
Year	Predeveloped	Mitigated
1956	2.453	2.453
1957	2.979	2.979
1958	2.309	2.309
1959	2.283	2.283
1960	2.377	2.377
1961	1.870	1.870
1962	3.184	3.184
1963	2.916	2.916
1964	2.459	2.459
1965	2.534	2.534
1966	2.468	2.468
1967	1.501	1.501
1968	2.351	2.351
1969	2.290	2.290
1970	2.072	2.072
1971	3.222	3.222
1972	2.813	2.813
1973	2.554	2.554
1974	2.471	2.471
1975	2.145	2.145
1976	2.634	2.634
1977	1.870	1.870
1978	3.335	3.335
1979	2.088	2.088
1980	1.888	1.888
1981	2.491	2.491
1982	2.779	2.779
1983	2.252	2.252
1984	2.052	2.052
1985	1.523	1.523
1986	2.504	2.504
1987	1.723	1.723
1988	2.622	2.622
1989	2.213	2.213
1990	2.959	2.959
1991	1.873	1.873
1992	1.439	1.439
1993	1.634	1.634
1994	2.071	2.071
1995	1.964	1.964
1996	2.428	2.428
1997	2.410	2.410
1998	1.481	1.481
1999	1.928	1.928
2000	1.809	1.809
2001	1.697	1.697
2002	2.593	2.593
2003	3.133	3.133
2004	2.794	2.794
2005	2.180	2.180

2006	2.335	2.335
2007	2.702	2.702
2008	1.387	1.387
2009	1.296	1.296

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	3.3348	3.3348
2	3.2221	3.2221
3	3.1845	3.1845
4	3.1334	3.1334
5	2.9791	2.9791
6	2.9592	2.9592
7	2.9156	2.9156
8	2.8128	2.8128
9	2.7937	2.7937
10	2.7785	2.7785
11	2.7018	2.7018
12	2.6338	2.6338
13	2.6222	2.6222
14	2.5934	2.5934
15	2.5538	2.5538
16	2.5339	2.5339
17	2.5045	2.5045
18	2.4910	2.4910
19	2.4706	2.4706
20	2.4679	2.4679
21	2.4586	2.4586
22	2.4530	2.4530
23	2.4282	2.4282
24	2.4099	2.4099
25	2.3767	2.3767
26	2.3505	2.3505
27	2.3346	2.3346
28	2.3088	2.3088
29	2.2903	2.2903
30	2.2825	2.2825
31	2.2516	2.2516
32	2.2129	2.2129
33	2.1802	2.1802
34	2.1448	2.1448
35	2.0879	2.0879
36	2.0715	2.0715
37	2.0715	2.0715
38	2.0521	2.0521
39	1.9643	1.9643
40	1.9276	1.9276
41	1.8883	1.8883
42	1.8727	1.8727
43	1.8703	1.8703
44	1.8701	1.8701
45	1.8094	1.8094
46	1.7232	1.7232
47	1.6969	1.6969
48	1.6345	1.6345

49	1.5228	1.5228
50	1.5014	1.5014
51	1.4806	1.4806
52	1.4394	1.4394
53	1.3865	1.3865
54	1.2955	1.2955

Stream Protection Duration

POC #1

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

1.1309	1020	1020	100	Pass
1.1538	947	947	100	Pass
1.1767	869	869	100	Pass
1.1996	815	815	100	Pass
1.2225	742	742	100	Pass
1.2454	694	694	100	Pass
1.2683	631	631	100	Pass
1.2912	584	584	100	Pass
1.3141	538	538	100	Pass
1.3370	509	509	100	Pass
1.3599	474	474	100	Pass
1.3828	444	444	100	Pass
1.4057	409	409	100	Pass
1.4286	382	382	100	Pass
1.4515	352	352	100	Pass
1.4744	327	327	100	Pass
1.4973	309	309	100	Pass
1.5202	285	285	100	Pass
1.5431	265	265	100	Pass
1.5660	249	249	100	Pass
1.5889	239	239	100	Pass
1.6118	227	227	100	Pass
1.6347	216	216	100	Pass
1.6576	202	202	100	Pass
1.6805	191	191	100	Pass
1.7034	179	179	100	Pass
1.7263	170	170	100	Pass
1.7492	162	162	100	Pass
1.7721	158	158	100	Pass
1.7950	153	153	100	Pass
1.8179	148	148	100	Pass
1.8408	132	132	100	Pass
1.8637	124	124	100	Pass
1.8866	110	110	100	Pass
1.9095	103	103	100	Pass
1.9324	97	97	100	Pass
1.9553	94	94	100	Pass
1.9782	91	91	100	Pass
2.0011	88	88	100	Pass
2.0240	86	86	100	Pass
2.0469	85	85	100	Pass
2.0698	82	82	100	Pass

2.0927	76	76	100	Pass
2.1156	72	72	100	Pass
2.1385	71	71	100	Pass
2.1614	65	65	100	Pass
2.1843	60	60	100	Pass
2.2072	57	57	100	Pass
2.2301	53	53	100	Pass
2.2530	51	51	100	Pass
2.2759	50	50	100	Pass
2.2988	47	47	100	Pass
2.3217	44	44	100	Pass
2.3446	43	43	100	Pass
2.3675	42	42	100	Pass
2.3904	41	41	100	Pass
2.4133	38	38	100	Pass
2.4362	37	37	100	Pass
2.4591	34	34	100	Pass
2.4820	29	29	100	Pass
2.5049	28	28	100	Pass
2.5278	27	27	100	Pass
2.5507	24	24	100	Pass
2.5736	23	23	100	Pass
2.5965	20	20	100	Pass
2.6194	19	19	100	Pass
2.6423	17	17	100	Pass
2.6652	17	17	100	Pass
2.6881	15	15	100	Pass
2.7110	13	13	100	Pass
2.7339	12	12	100	Pass
2.7568	12	12	100	Pass
2.7797	11	11	100	Pass
2.8026	10	10	100	Pass
2.8255	9	9	100	Pass
2.8484	9	9	100	Pass
2.8713	9	9	100	Pass
2.8942	9	9	100	Pass
2.9171	8	8	100	Pass
2.9400	8	8	100	Pass
2.9629	7	7	100	Pass
2.9858	6	6	100	Pass
3.0087	5	5	100	Pass
3.0316	5	5	100	Pass
3.0545	5	5	100	Pass
3.0774	5	5	100	Pass
3.1003	4	4	100	Pass
3.1232	4	4	100	Pass
3.1461	3	3	100	Pass
3.1690	3	3	100	Pass
3.1919	2	2	100	Pass
3.2148	2	2	100	Pass
3.2377	1	1	100	Pass
3.2606	1	1	100	Pass
3.2835	1	1	100	Pass
3.3064	1	1	100	Pass
3.3293	1	1	100	Pass
3.3522	0	0	100	Pass
3.3751	0	0	0	Pass

3.3980 0 0 0 Pass

Water Quality BMP Flow and Volume for POC #1

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 1

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	155.2572	155.2572	100.0	Pass
Feb	119.3527	119.3527	100.0	Pass
Mar	106.1153	106.1153	100.0	Pass
Apr	59.1336	59.1336	100.0	Pass
May	31.1347	31.1347	100.0	Pass
Jun	20.3966	20.3966	100.0	Pass
Jul	9.8310	9.8310	100.0	Pass
Aug	14.3117	14.3117	100.0	Pass
Sep	32.7869	32.7869	100.0	Pass
Oct	82.1806	82.1806	100.0	Pass
Nov	144.6418	144.6418	100.0	Pass
Dec	149.0639	149.0639	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	4.9814	4.9814	100.0	Pass
2	3.9614	3.9614	100.0	Pass
3	4.9564	4.9564	100.0	Pass
4	5.7992	5.7992	100.0	Pass
5	4.2870	4.2870	100.0	Pass
6	6.3097	6.3097	100.0	Pass
7	4.9685	4.9685	100.0	Pass
8	4.9748	4.9748	100.0	Pass
9	5.2839	5.2839	100.0	Pass
10	5.1546	5.1546	100.0	Pass
11	6.2510	6.2510	100.0	Pass
12	5.0290	5.0290	100.0	Pass
13	6.2288	6.2288	100.0	Pass
14	6.2342	6.2342	100.0	Pass
15	5.7053	5.7053	100.0	Pass
16	4.7297	4.7297	100.0	Pass
17	4.5358	4.5358	100.0	Pass
18	4.0115	4.0115	100.0	Pass
19	3.9801	3.9801	100.0	Pass
20	2.6611	2.6611	100.0	Pass
21	4.8851	4.8851	100.0	Pass
22	5.9342	5.9342	100.0	Pass
23	6.6604	6.6604	100.0	Pass
24	4.6836	4.6836	100.0	Pass
25	3.9712	3.9712	100.0	Pass
26	3.5750	3.5750	100.0	Pass
27	4.4441	4.4441	100.0	Pass

28	5.6039	5.6039	100.0	Pass
29	4.3853	4.3853	100.0	Pass
30	5.0974	5.0974	100.0	Pass
31	3.1532	3.1532	100.0	Pass
Feb1	3.5243	3.5243	100.0	Pass
2	3.2225	3.2225	100.0	Pass
3	2.9104	2.9104	100.0	Pass
4	2.7026	2.7026	100.0	Pass
5	4.8335	4.8335	100.0	Pass
6	2.5794	2.5794	100.0	Pass
7	3.6293	3.6293	100.0	Pass
8	2.7835	2.7835	100.0	Pass
9	3.3028	3.3028	100.0	Pass
10	4.3691	4.3691	100.0	Pass
11	5.7601	5.7601	100.0	Pass
12	4.5942	4.5942	100.0	Pass
13	4.8956	4.8956	100.0	Pass
14	6.7735	6.7735	100.0	Pass
15	5.0487	5.0487	100.0	Pass
16	6.5081	6.5081	100.0	Pass
17	5.7597	5.7597	100.0	Pass
18	4.6300	4.6300	100.0	Pass
19	4.0081	4.0081	100.0	Pass
20	3.8696	3.8696	100.0	Pass
21	3.1744	3.1744	100.0	Pass
22	4.5343	4.5343	100.0	Pass
23	4.3639	4.3639	100.0	Pass
24	4.7966	4.7966	100.0	Pass
25	4.2981	4.2981	100.0	Pass
26	4.2630	4.2630	100.0	Pass
27	3.7649	3.7649	100.0	Pass
28	5.0495	5.0495	100.0	Pass
29	3.5852	3.5852	100.0	Pass
Mar1	3.5220	3.5220	100.0	Pass
2	2.9128	2.9128	100.0	Pass
3	4.0191	4.0191	100.0	Pass
4	4.2489	4.2489	100.0	Pass
5	3.3605	3.3605	100.0	Pass
6	4.2257	4.2257	100.0	Pass
7	4.1595	4.1595	100.0	Pass
8	4.0317	4.0317	100.0	Pass
9	4.0396	4.0396	100.0	Pass
10	3.5401	3.5401	100.0	Pass
11	3.8166	3.8166	100.0	Pass
12	3.3980	3.3980	100.0	Pass
13	4.0860	4.0860	100.0	Pass
14	3.2700	3.2700	100.0	Pass
15	2.6757	2.6757	100.0	Pass
16	2.5665	2.5665	100.0	Pass
17	3.4343	3.4343	100.0	Pass
18	2.1682	2.1682	100.0	Pass
19	3.1632	3.1632	100.0	Pass
20	2.5706	2.5706	100.0	Pass
21	4.2462	4.2462	100.0	Pass
22	4.8001	4.8001	100.0	Pass
23	4.0120	4.0120	100.0	Pass
24	2.6281	2.6281	100.0	Pass

25	3.9317	3.9317	100.0	Pass
26	2.8990	2.8990	100.0	Pass
27	2.7627	2.7627	100.0	Pass
28	3.0715	3.0715	100.0	Pass
29	2.8346	2.8346	100.0	Pass
30	2.1458	2.1458	100.0	Pass
31	1.7351	1.7351	100.0	Pass
Apr1	1.8294	1.8294	100.0	Pass
2	2.0403	2.0403	100.0	Pass
3	2.7948	2.7948	100.0	Pass
4	2.5536	2.5536	100.0	Pass
5	2.7417	2.7417	100.0	Pass
6	1.5241	1.5241	100.0	Pass
7	2.4530	2.4530	100.0	Pass
8	2.4693	2.4693	100.0	Pass
9	2.2105	2.2105	100.0	Pass
10	2.1736	2.1736	100.0	Pass
11	2.9498	2.9498	100.0	Pass
12	2.5655	2.5655	100.0	Pass
13	2.6645	2.6645	100.0	Pass
14	2.2983	2.2983	100.0	Pass
15	2.4267	2.4267	100.0	Pass
16	1.3987	1.3987	100.0	Pass
17	1.8710	1.8710	100.0	Pass
18	2.1335	2.1335	100.0	Pass
19	1.1806	1.1806	100.0	Pass
20	1.1373	1.1373	100.0	Pass
21	1.8821	1.8821	100.0	Pass
22	1.5881	1.5881	100.0	Pass
23	1.3895	1.3895	100.0	Pass
24	1.1191	1.1191	100.0	Pass
25	1.3385	1.3385	100.0	Pass
26	2.1934	2.1934	100.0	Pass
27	1.7572	1.7572	100.0	Pass
28	1.8146	1.8146	100.0	Pass
29	0.9060	0.9060	100.0	Pass
30	1.1815	1.1815	100.0	Pass
May1	1.8113	1.8113	100.0	Pass
2	1.3146	1.3146	100.0	Pass
3	1.4253	1.4253	100.0	Pass
4	1.1139	1.1139	100.0	Pass
5	1.0729	1.0729	100.0	Pass
6	0.9119	0.9119	100.0	Pass
7	1.1952	1.1952	100.0	Pass
8	0.7436	0.7436	100.0	Pass
9	1.0317	1.0317	100.0	Pass
10	0.8315	0.8315	100.0	Pass
11	0.7820	0.7820	100.0	Pass
12	1.1119	1.1119	100.0	Pass
13	1.1882	1.1882	100.0	Pass
14	1.1530	1.1530	100.0	Pass
15	0.7762	0.7762	100.0	Pass
16	1.0102	1.0102	100.0	Pass
17	0.8144	0.8144	100.0	Pass
18	1.3283	1.3283	100.0	Pass
19	0.7113	0.7113	100.0	Pass
20	0.6891	0.6891	100.0	Pass

21	0.7064	0.7064	100.0	Pass
22	0.8489	0.8489	100.0	Pass
23	0.7500	0.7500	100.0	Pass
24	0.7962	0.7962	100.0	Pass
25	0.6602	0.6602	100.0	Pass
26	1.1508	1.1508	100.0	Pass
27	0.9001	0.9001	100.0	Pass
28	0.9633	0.9633	100.0	Pass
29	1.3103	1.3103	100.0	Pass
30	0.8542	0.8542	100.0	Pass
31	0.9391	0.9391	100.0	Pass
Jun1	0.7145	0.7145	100.0	Pass
2	1.1603	1.1603	100.0	Pass
3	1.0879	1.0879	100.0	Pass
4	0.8039	0.8039	100.0	Pass
5	1.3028	1.3028	100.0	Pass
6	0.4883	0.4883	100.0	Pass
7	0.7596	0.7596	100.0	Pass
8	1.0865	1.0865	100.0	Pass
9	0.8204	0.8204	100.0	Pass
10	0.7796	0.7796	100.0	Pass
11	0.5605	0.5605	100.0	Pass
12	0.6906	0.6906	100.0	Pass
13	1.0852	1.0852	100.0	Pass
14	0.4440	0.4440	100.0	Pass
15	0.8920	0.8920	100.0	Pass
16	0.3899	0.3899	100.0	Pass
17	0.5418	0.5418	100.0	Pass
18	0.3700	0.3700	100.0	Pass
19	0.4479	0.4479	100.0	Pass
20	0.4946	0.4946	100.0	Pass
21	0.4734	0.4734	100.0	Pass
22	0.2693	0.2693	100.0	Pass
23	1.3545	1.3545	100.0	Pass
24	0.3512	0.3512	100.0	Pass
25	0.6086	0.6086	100.0	Pass
26	0.3658	0.3658	100.0	Pass
27	0.3348	0.3348	100.0	Pass
28	0.3423	0.3423	100.0	Pass
29	0.4404	0.4404	100.0	Pass
30	0.9257	0.9257	100.0	Pass
Jul1	0.2263	0.2263	100.0	Pass
2	0.2032	0.2032	100.0	Pass
3	0.2291	0.2291	100.0	Pass
4	0.5587	0.5587	100.0	Pass
5	0.4080	0.4080	100.0	Pass
6	0.3102	0.3102	100.0	Pass
7	0.5902	0.5902	100.0	Pass
8	0.3279	0.3279	100.0	Pass
9	0.7016	0.7016	100.0	Pass
10	0.4486	0.4486	100.0	Pass
11	0.9191	0.9191	100.0	Pass
12	0.4633	0.4633	100.0	Pass
13	0.3590	0.3590	100.0	Pass
14	0.5275	0.5275	100.0	Pass
15	0.2135	0.2135	100.0	Pass
16	0.1337	0.1337	100.0	Pass

17	0.4551	0.4551	100.0	Pass
18	0.1542	0.1542	100.0	Pass
19	0.2021	0.2021	100.0	Pass
20	0.3368	0.3368	100.0	Pass
21	0.2568	0.2568	100.0	Pass
22	0.0150	0.0150	100.0	Pass
23	0.0749	0.0749	100.0	Pass
24	0.0865	0.0865	100.0	Pass
25	0.2001	0.2001	100.0	Pass
26	0.0886	0.0886	100.0	Pass
27	0.1252	0.1252	100.0	Pass
28	0.1054	0.1054	100.0	Pass
29	0.0672	0.0672	100.0	Pass
30	0.1181	0.1181	100.0	Pass
31	0.1316	0.1316	100.0	Pass
Aug1	0.5347	0.5347	100.0	Pass
2	0.1792	0.1792	100.0	Pass
3	0.0702	0.0702	100.0	Pass
4	0.0695	0.0695	100.0	Pass
5	0.6013	0.6013	100.0	Pass
6	0.4062	0.4062	100.0	Pass
7	0.1434	0.1434	100.0	Pass
8	0.1500	0.1500	100.0	Pass
9	0.0129	0.0129	100.0	Pass
10	0.0828	0.0828	100.0	Pass
11	0.3893	0.3893	100.0	Pass
12	0.3386	0.3386	100.0	Pass
13	0.4164	0.4164	100.0	Pass
14	0.2462	0.2462	100.0	Pass
15	0.2247	0.2247	100.0	Pass
16	0.2051	0.2051	100.0	Pass
17	0.3982	0.3982	100.0	Pass
18	0.7456	0.7456	100.0	Pass
19	0.2035	0.2035	100.0	Pass
20	0.5838	0.5838	100.0	Pass
21	0.5175	0.5175	100.0	Pass
22	1.0213	1.0213	100.0	Pass
23	0.9306	0.9306	100.0	Pass
24	0.7843	0.7843	100.0	Pass
25	0.3187	0.3187	100.0	Pass
26	0.9841	0.9841	100.0	Pass
27	0.9870	0.9870	100.0	Pass
28	0.9818	0.9818	100.0	Pass
29	0.6346	0.6346	100.0	Pass
30	1.0193	1.0193	100.0	Pass
31	1.5922	1.5922	100.0	Pass
Sep1	0.6033	0.6033	100.0	Pass
2	0.6192	0.6192	100.0	Pass
3	0.6847	0.6847	100.0	Pass
4	0.8613	0.8613	100.0	Pass
5	0.7227	0.7227	100.0	Pass
6	0.5049	0.5049	100.0	Pass
7	0.9959	0.9959	100.0	Pass
8	0.6385	0.6385	100.0	Pass
9	1.6362	1.6362	100.0	Pass
10	0.3627	0.3627	100.0	Pass
11	0.3221	0.3221	100.0	Pass

12	0.8752	0.8752	100.0	Pass
13	1.5983	1.5983	100.0	Pass
14	0.9999	0.9999	100.0	Pass
15	1.5394	1.5394	100.0	Pass
16	1.6451	1.6451	100.0	Pass
17	1.8021	1.8021	100.0	Pass
18	1.5978	1.5978	100.0	Pass
19	1.7082	1.7082	100.0	Pass
20	1.2227	1.2227	100.0	Pass
21	1.7352	1.7352	100.0	Pass
22	1.4126	1.4126	100.0	Pass
23	1.1203	1.1203	100.0	Pass
24	0.7888	0.7888	100.0	Pass
25	0.8474	0.8474	100.0	Pass
26	0.8496	0.8496	100.0	Pass
27	1.1588	1.1588	100.0	Pass
28	1.0173	1.0173	100.0	Pass
29	1.3288	1.3288	100.0	Pass
30	0.9262	0.9262	100.0	Pass
Oct1	0.6657	0.6657	100.0	Pass
2	1.7083	1.7083	100.0	Pass
3	1.5100	1.5100	100.0	Pass
4	1.8581	1.8581	100.0	Pass
5	2.0099	2.0099	100.0	Pass
6	2.1935	2.1935	100.0	Pass
7	2.8185	2.8185	100.0	Pass
8	2.2915	2.2915	100.0	Pass
9	1.7711	1.7711	100.0	Pass
10	1.4642	1.4642	100.0	Pass
11	2.7574	2.7574	100.0	Pass
12	1.8474	1.8474	100.0	Pass
13	2.5673	2.5673	100.0	Pass
14	1.4587	1.4587	100.0	Pass
15	1.7411	1.7411	100.0	Pass
16	2.3581	2.3581	100.0	Pass
17	2.1687	2.1687	100.0	Pass
18	3.4451	3.4451	100.0	Pass
19	4.2716	4.2716	100.0	Pass
20	3.7114	3.7114	100.0	Pass
21	4.4611	4.4611	100.0	Pass
22	2.6120	2.6120	100.0	Pass
23	4.3509	4.3509	100.0	Pass
24	3.8408	3.8408	100.0	Pass
25	3.4310	3.4310	100.0	Pass
26	4.1559	4.1559	100.0	Pass
27	3.5464	3.5464	100.0	Pass
28	3.3181	3.3181	100.0	Pass
29	2.8136	2.8136	100.0	Pass
30	4.1189	4.1189	100.0	Pass
31	3.5016	3.5016	100.0	Pass
Nov1	4.4091	4.4091	100.0	Pass
2	5.3409	5.3409	100.0	Pass
3	4.1695	4.1695	100.0	Pass
4	4.2012	4.2012	100.0	Pass
5	4.6465	4.6465	100.0	Pass
6	3.9047	3.9047	100.0	Pass
7	3.5332	3.5332	100.0	Pass

8	4.5478	4.5478	100.0	Pass
9	5.3850	5.3850	100.0	Pass
10	4.6268	4.6268	100.0	Pass
11	5.1573	5.1573	100.0	Pass
12	4.7755	4.7755	100.0	Pass
13	3.6099	3.6099	100.0	Pass
14	4.2181	4.2181	100.0	Pass
15	4.6876	4.6876	100.0	Pass
16	4.9423	4.9423	100.0	Pass
17	4.5256	4.5256	100.0	Pass
18	6.5957	6.5957	100.0	Pass
19	5.9581	5.9581	100.0	Pass
20	3.9782	3.9782	100.0	Pass
21	6.1445	6.1445	100.0	Pass
22	7.3071	7.3071	100.0	Pass
23	5.6244	5.6244	100.0	Pass
24	6.3895	6.3895	100.0	Pass
25	4.2867	4.2867	100.0	Pass
26	3.4818	3.4818	100.0	Pass
27	4.1663	4.1663	100.0	Pass
28	3.9999	3.9999	100.0	Pass
29	6.5363	6.5363	100.0	Pass
30	5.2994	5.2994	100.0	Pass
Dec1	5.8327	5.8327	100.0	Pass
2	5.6592	5.6592	100.0	Pass
3	3.6919	3.6919	100.0	Pass
4	4.0235	4.0235	100.0	Pass
5	3.4679	3.4679	100.0	Pass
6	3.0140	3.0140	100.0	Pass
7	4.2815	4.2815	100.0	Pass
8	5.3790	5.3790	100.0	Pass
9	5.3781	5.3781	100.0	Pass
10	5.8099	5.8099	100.0	Pass
11	4.2951	4.2951	100.0	Pass
12	4.6106	4.6106	100.0	Pass
13	6.7849	6.7849	100.0	Pass
14	4.7750	4.7750	100.0	Pass
15	6.1718	6.1718	100.0	Pass
16	4.2152	4.2152	100.0	Pass
17	4.9889	4.9889	100.0	Pass
18	4.1141	4.1141	100.0	Pass
19	4.8017	4.8017	100.0	Pass
20	4.7122	4.7122	100.0	Pass
21	5.1648	5.1648	100.0	Pass
22	5.1436	5.1436	100.0	Pass
23	5.5766	5.5766	100.0	Pass
24	6.1313	6.1313	100.0	Pass
25	5.3709	5.3709	100.0	Pass
26	4.8905	4.8905	100.0	Pass
27	3.3245	3.3245	100.0	Pass
28	5.1476	5.1476	100.0	Pass
29	3.4642	3.4642	100.0	Pass
30	3.5535	3.5535	100.0	Pass
31	5.9859	5.9859	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #2

Total Pervious Area:0.135

Total Impervious Area:0.992

Mitigated Landuse Totals for POC #2

Total Pervious Area:0.135

Total Impervious Area:0.992

Flow Frequency Return Periods for Predeveloped. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.781938
5 year	0.927159
10 year	1.005623
25 year	1.090384
50 year	1.145402
100 year	1.194868

Flow Frequency Return Periods for Mitigated. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.781938
5 year	0.927159
10 year	1.005623
25 year	1.090384
50 year	1.145402
100 year	1.194868

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #2

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.820	0.820
1957	1.026	1.026
1958	0.794	0.794
1959	0.782	0.782
1960	0.812	0.812
1961	0.669	0.669
1962	1.073	1.073
1963	0.987	0.987
1964	0.859	0.859
1965	0.853	0.853
1966	0.832	0.832
1967	0.533	0.533
1968	0.805	0.805
1969	0.762	0.762
1970	0.728	0.728
1971	1.097	1.097
1972	0.925	0.925
1973	0.871	0.871
1974	0.828	0.828
1975	0.736	0.736

1976	0.899	0.899
1977	0.654	0.654
1978	1.143	1.143
1979	0.716	0.716
1980	0.661	0.661
1981	0.847	0.847
1982	0.976	0.976
1983	0.770	0.770
1984	0.708	0.708
1985	0.545	0.545
1986	0.860	0.860
1987	0.600	0.600
1988	0.909	0.909
1989	0.769	0.769
1990	0.991	0.991
1991	0.656	0.656
1992	0.515	0.515
1993	0.580	0.580
1994	0.726	0.726
1995	0.715	0.715
1996	0.869	0.869
1997	0.847	0.847
1998	0.529	0.529
1999	0.669	0.669
2000	0.615	0.615
2001	0.608	0.608
2002	0.934	0.934
2003	1.045	1.045
2004	0.974	0.974
2005	0.772	0.772
2006	0.786	0.786
2007	0.926	0.926
2008	0.490	0.490
2009	0.464	0.464

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	1.1429	1.1429
2	1.0968	1.0968
3	1.0728	1.0728
4	1.0453	1.0453
5	1.0258	1.0258
6	0.9907	0.9907
7	0.9868	0.9868
8	0.9760	0.9760
9	0.9739	0.9739
10	0.9344	0.9344
11	0.9260	0.9260
12	0.9249	0.9249
13	0.9087	0.9087
14	0.8992	0.8992
15	0.8714	0.8714
16	0.8687	0.8687
17	0.8597	0.8597
18	0.8585	0.8585

19	0.8529	0.8529
20	0.8466	0.8466
21	0.8465	0.8465
22	0.8315	0.8315
23	0.8275	0.8275
24	0.8196	0.8196
25	0.8124	0.8124
26	0.8048	0.8048
27	0.7937	0.7937
28	0.7862	0.7862
29	0.7823	0.7823
30	0.7721	0.7721
31	0.7697	0.7697
32	0.7686	0.7686
33	0.7620	0.7620
34	0.7357	0.7357
35	0.7278	0.7278
36	0.7258	0.7258
37	0.7162	0.7162
38	0.7147	0.7147
39	0.7083	0.7083
40	0.6692	0.6692
41	0.6686	0.6686
42	0.6613	0.6613
43	0.6557	0.6557
44	0.6542	0.6542
45	0.6151	0.6151
46	0.6080	0.6080
47	0.6001	0.6001
48	0.5798	0.5798
49	0.5453	0.5453
50	0.5330	0.5330
51	0.5288	0.5288
52	0.5154	0.5154
53	0.4898	0.4898
54	0.4635	0.4635

Stream Protection Duration

POC #2

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3910	1106	1106	100	Pass
0.3986	1031	1031	100	Pass
0.4062	956	956	100	Pass
0.4138	896	896	100	Pass
0.4215	831	831	100	Pass
0.4291	768	768	100	Pass
0.4367	721	721	100	Pass
0.4443	658	658	100	Pass
0.4519	612	612	100	Pass
0.4596	564	564	100	Pass
0.4672	526	526	100	Pass
0.4748	495	495	100	Pass

0.4824	463	463	100	Pass
0.4900	423	423	100	Pass
0.4977	396	396	100	Pass
0.5053	368	368	100	Pass
0.5129	346	346	100	Pass
0.5205	321	321	100	Pass
0.5281	299	299	100	Pass
0.5358	285	285	100	Pass
0.5434	268	268	100	Pass
0.5510	255	255	100	Pass
0.5586	238	238	100	Pass
0.5662	228	228	100	Pass
0.5739	218	218	100	Pass
0.5815	203	203	100	Pass
0.5891	194	194	100	Pass
0.5967	185	185	100	Pass
0.6043	174	174	100	Pass
0.6120	167	167	100	Pass
0.6196	159	159	100	Pass
0.6272	151	151	100	Pass
0.6348	143	143	100	Pass
0.6424	136	136	100	Pass
0.6501	126	126	100	Pass
0.6577	116	116	100	Pass
0.6653	109	109	100	Pass
0.6729	102	102	100	Pass
0.6805	98	98	100	Pass
0.6882	93	93	100	Pass
0.6958	91	91	100	Pass
0.7034	89	89	100	Pass
0.7110	81	81	100	Pass
0.7187	77	77	100	Pass
0.7263	73	73	100	Pass
0.7339	70	70	100	Pass
0.7415	64	64	100	Pass
0.7491	63	63	100	Pass
0.7568	61	61	100	Pass
0.7644	57	57	100	Pass
0.7720	53	53	100	Pass
0.7796	51	51	100	Pass
0.7872	46	46	100	Pass
0.7949	43	43	100	Pass
0.8025	43	43	100	Pass
0.8101	42	42	100	Pass
0.8177	40	40	100	Pass
0.8253	38	38	100	Pass
0.8330	34	34	100	Pass
0.8406	34	34	100	Pass
0.8482	32	32	100	Pass
0.8558	29	29	100	Pass
0.8634	26	26	100	Pass
0.8711	24	24	100	Pass
0.8787	23	23	100	Pass
0.8863	23	23	100	Pass
0.8939	23	23	100	Pass
0.9015	21	21	100	Pass
0.9092	18	18	100	Pass

0.9168	18	18	100	Pass
0.9244	17	17	100	Pass
0.9320	14	14	100	Pass
0.9396	13	13	100	Pass
0.9473	12	12	100	Pass
0.9549	11	11	100	Pass
0.9625	11	11	100	Pass
0.9701	11	11	100	Pass
0.9778	9	9	100	Pass
0.9854	9	9	100	Pass
0.9930	7	7	100	Pass
1.0006	6	6	100	Pass
1.0082	6	6	100	Pass
1.0159	6	6	100	Pass
1.0235	6	6	100	Pass
1.0311	5	5	100	Pass
1.0387	4	4	100	Pass
1.0463	3	3	100	Pass
1.0540	3	3	100	Pass
1.0616	3	3	100	Pass
1.0692	3	3	100	Pass
1.0768	2	2	100	Pass
1.0844	2	2	100	Pass
1.0921	2	2	100	Pass
1.0997	1	1	100	Pass
1.1073	1	1	100	Pass
1.1149	1	1	100	Pass
1.1225	1	1	100	Pass
1.1302	1	1	100	Pass
1.1378	1	1	100	Pass
1.1454	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #2

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 2

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	48.4804	48.4804	100.0	Pass
Feb	37.1022	37.1022	100.0	Pass
Mar	33.0642	33.0642	100.0	Pass
Apr	18.6576	18.6576	100.0	Pass
May	10.2675	10.2675	100.0	Pass
Jun	6.8859	6.8859	100.0	Pass
Jul	3.4334	3.4334	100.0	Pass
Aug	5.1240	5.1240	100.0	Pass
Sep	11.4740	11.4740	100.0	Pass
Oct	27.6097	27.6097	100.0	Pass
Nov	46.2376	46.2376	100.0	Pass

Dec 46.7422 46.7422 100.0 Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.5570	1.5570	100.0	Pass
2	1.2141	1.2141	100.0	Pass
3	1.5661	1.5661	100.0	Pass
4	1.8518	1.8518	100.0	Pass
5	1.3187	1.3187	100.0	Pass
6	2.0274	2.0274	100.0	Pass
7	1.5386	1.5386	100.0	Pass
8	1.5539	1.5539	100.0	Pass
9	1.6701	1.6701	100.0	Pass
10	1.6110	1.6110	100.0	Pass
11	1.9849	1.9849	100.0	Pass
12	1.5336	1.5336	100.0	Pass
13	1.9628	1.9628	100.0	Pass
14	1.9461	1.9461	100.0	Pass
15	1.7668	1.7668	100.0	Pass
16	1.4310	1.4310	100.0	Pass
17	1.3780	1.3780	100.0	Pass
18	1.2175	1.2175	100.0	Pass
19	1.2263	1.2263	100.0	Pass
20	0.7899	0.7899	100.0	Pass
21	1.5929	1.5929	100.0	Pass
22	1.9001	1.9001	100.0	Pass
23	2.1136	2.1136	100.0	Pass
24	1.4086	1.4086	100.0	Pass
25	1.1966	1.1966	100.0	Pass
26	1.0811	1.0811	100.0	Pass
27	1.3981	1.3981	100.0	Pass
28	1.7820	1.7820	100.0	Pass
29	1.3382	1.3382	100.0	Pass
30	1.6063	1.6063	100.0	Pass
31	0.9358	0.9358	100.0	Pass
Feb1	1.0883	1.0883	100.0	Pass
2	1.0005	1.0005	100.0	Pass
3	0.8990	0.8990	100.0	Pass
4	0.8324	0.8324	100.0	Pass
5	1.5719	1.5719	100.0	Pass
6	0.7573	0.7573	100.0	Pass
7	1.1445	1.1445	100.0	Pass
8	0.8577	0.8577	100.0	Pass
9	1.0517	1.0517	100.0	Pass
10	1.4058	1.4058	100.0	Pass
11	1.8403	1.8403	100.0	Pass
12	1.4165	1.4165	100.0	Pass
13	1.5344	1.5344	100.0	Pass
14	2.1745	2.1745	100.0	Pass
15	1.5397	1.5397	100.0	Pass
16	2.0553	2.0553	100.0	Pass
17	1.7892	1.7892	100.0	Pass
18	1.3869	1.3869	100.0	Pass
19	1.2121	1.2121	100.0	Pass
20	1.1758	1.1758	100.0	Pass
21	0.9648	0.9648	100.0	Pass
22	1.4377	1.4377	100.0	Pass
23	1.3591	1.3591	100.0	Pass

24	1.4975	1.4975	100.0	Pass
25	1.3303	1.3303	100.0	Pass
26	1.3013	1.3013	100.0	Pass
27	1.1423	1.1423	100.0	Pass
28	1.5540	1.5540	100.0	Pass
29	1.1059	1.1059	100.0	Pass
Mar1	1.0958	1.0958	100.0	Pass
2	0.8902	0.8902	100.0	Pass
3	1.2796	1.2796	100.0	Pass
4	1.3349	1.3349	100.0	Pass
5	1.0376	1.0376	100.0	Pass
6	1.3206	1.3206	100.0	Pass
7	1.3084	1.3084	100.0	Pass
8	1.2547	1.2547	100.0	Pass
9	1.2595	1.2595	100.0	Pass
10	1.0865	1.0865	100.0	Pass
11	1.1879	1.1879	100.0	Pass
12	1.0524	1.0524	100.0	Pass
13	1.2842	1.2842	100.0	Pass
14	1.0056	1.0056	100.0	Pass
15	0.8179	0.8179	100.0	Pass
16	0.7957	0.7957	100.0	Pass
17	1.0867	1.0867	100.0	Pass
18	0.6516	0.6516	100.0	Pass
19	1.0058	1.0058	100.0	Pass
20	0.8000	0.8000	100.0	Pass
21	1.3739	1.3739	100.0	Pass
22	1.5347	1.5347	100.0	Pass
23	1.2388	1.2388	100.0	Pass
24	0.7749	0.7749	100.0	Pass
25	1.2455	1.2455	100.0	Pass
26	0.8817	0.8817	100.0	Pass
27	0.8610	0.8610	100.0	Pass
28	0.9594	0.9594	100.0	Pass
29	0.8840	0.8840	100.0	Pass
30	0.6518	0.6518	100.0	Pass
31	0.5281	0.5281	100.0	Pass
Apr1	0.5716	0.5716	100.0	Pass
2	0.6486	0.6486	100.0	Pass
3	0.9103	0.9103	100.0	Pass
4	0.8076	0.8076	100.0	Pass
5	0.8606	0.8606	100.0	Pass
6	0.4512	0.4512	100.0	Pass
7	0.7849	0.7849	100.0	Pass
8	0.7780	0.7780	100.0	Pass
9	0.6975	0.6975	100.0	Pass
10	0.6783	0.6783	100.0	Pass
11	0.9603	0.9603	100.0	Pass
12	0.8050	0.8050	100.0	Pass
13	0.8482	0.8482	100.0	Pass
14	0.7140	0.7140	100.0	Pass
15	0.7626	0.7626	100.0	Pass
16	0.4144	0.4144	100.0	Pass
17	0.5935	0.5935	100.0	Pass
18	0.6852	0.6852	100.0	Pass
19	0.3519	0.3519	100.0	Pass
20	0.3537	0.3537	100.0	Pass

21	0.6132	0.6132	100.0	Pass
22	0.5094	0.5094	100.0	Pass
23	0.4381	0.4381	100.0	Pass
24	0.3506	0.3506	100.0	Pass
25	0.4325	0.4325	100.0	Pass
26	0.7209	0.7209	100.0	Pass
27	0.5510	0.5510	100.0	Pass
28	0.5714	0.5714	100.0	Pass
29	0.2664	0.2664	100.0	Pass
30	0.3795	0.3795	100.0	Pass
May1	0.5997	0.5997	100.0	Pass
2	0.4188	0.4188	100.0	Pass
3	0.4635	0.4635	100.0	Pass
4	0.3534	0.3534	100.0	Pass
5	0.3446	0.3446	100.0	Pass
6	0.2932	0.2932	100.0	Pass
7	0.3929	0.3929	100.0	Pass
8	0.2346	0.2346	100.0	Pass
9	0.3405	0.3405	100.0	Pass
10	0.2743	0.2743	100.0	Pass
11	0.2594	0.2594	100.0	Pass
12	0.3676	0.3676	100.0	Pass
13	0.3944	0.3944	100.0	Pass
14	0.3843	0.3843	100.0	Pass
15	0.2486	0.2486	100.0	Pass
16	0.3372	0.3372	100.0	Pass
17	0.2692	0.2692	100.0	Pass
18	0.4517	0.4517	100.0	Pass
19	0.2296	0.2296	100.0	Pass
20	0.2303	0.2303	100.0	Pass
21	0.2379	0.2379	100.0	Pass
22	0.2901	0.2901	100.0	Pass
23	0.2512	0.2512	100.0	Pass
24	0.2649	0.2649	100.0	Pass
25	0.2194	0.2194	100.0	Pass
26	0.3904	0.3904	100.0	Pass
27	0.2996	0.2996	100.0	Pass
28	0.3256	0.3256	100.0	Pass
29	0.4422	0.4422	100.0	Pass
30	0.2804	0.2804	100.0	Pass
31	0.3072	0.3072	100.0	Pass
Jun1	0.2278	0.2278	100.0	Pass
2	0.3936	0.3936	100.0	Pass
3	0.3672	0.3672	100.0	Pass
4	0.2671	0.2671	100.0	Pass
5	0.4463	0.4463	100.0	Pass
6	0.1570	0.1570	100.0	Pass
7	0.2515	0.2515	100.0	Pass
8	0.3653	0.3653	100.0	Pass
9	0.2722	0.2722	100.0	Pass
10	0.2627	0.2627	100.0	Pass
11	0.1871	0.1871	100.0	Pass
12	0.2358	0.2358	100.0	Pass
13	0.3729	0.3729	100.0	Pass
14	0.1454	0.1454	100.0	Pass
15	0.3038	0.3038	100.0	Pass
16	0.1255	0.1255	100.0	Pass

17	0.1840	0.1840	100.0	Pass
18	0.1212	0.1212	100.0	Pass
19	0.1534	0.1534	100.0	Pass
20	0.1721	0.1721	100.0	Pass
21	0.1615	0.1615	100.0	Pass
22	0.0896	0.0896	100.0	Pass
23	0.4767	0.4767	100.0	Pass
24	0.1127	0.1127	100.0	Pass
25	0.2085	0.2085	100.0	Pass
26	0.1253	0.1253	100.0	Pass
27	0.1164	0.1164	100.0	Pass
28	0.1202	0.1202	100.0	Pass
29	0.1567	0.1567	100.0	Pass
30	0.3307	0.3307	100.0	Pass
Jul1	0.0797	0.0797	100.0	Pass
2	0.0718	0.0718	100.0	Pass
3	0.0812	0.0812	100.0	Pass
4	0.1991	0.1991	100.0	Pass
5	0.1448	0.1448	100.0	Pass
6	0.1106	0.1106	100.0	Pass
7	0.2087	0.2087	100.0	Pass
8	0.1150	0.1150	100.0	Pass
9	0.2474	0.2474	100.0	Pass
10	0.1576	0.1576	100.0	Pass
11	0.3159	0.3159	100.0	Pass
12	0.1456	0.1456	100.0	Pass
13	0.1152	0.1152	100.0	Pass
14	0.1835	0.1835	100.0	Pass
15	0.0746	0.0746	100.0	Pass
16	0.0469	0.0469	100.0	Pass
17	0.1594	0.1594	100.0	Pass
18	0.0504	0.0504	100.0	Pass
19	0.0694	0.0694	100.0	Pass
20	0.1190	0.1190	100.0	Pass
21	0.0920	0.0920	100.0	Pass
22	0.0056	0.0056	100.0	Pass
23	0.0268	0.0268	100.0	Pass
24	0.0309	0.0309	100.0	Pass
25	0.0715	0.0715	100.0	Pass
26	0.0316	0.0316	100.0	Pass
27	0.0446	0.0446	100.0	Pass
28	0.0378	0.0378	100.0	Pass
29	0.0242	0.0242	100.0	Pass
30	0.0423	0.0423	100.0	Pass
31	0.0471	0.0471	100.0	Pass
Aug1	0.1916	0.1916	100.0	Pass
2	0.0655	0.0655	100.0	Pass
3	0.0263	0.0263	100.0	Pass
4	0.0256	0.0256	100.0	Pass
5	0.2165	0.2165	100.0	Pass
6	0.1463	0.1463	100.0	Pass
7	0.0516	0.0516	100.0	Pass
8	0.0538	0.0538	100.0	Pass
9	0.0047	0.0047	100.0	Pass
10	0.0298	0.0298	100.0	Pass
11	0.1396	0.1396	100.0	Pass
12	0.1218	0.1218	100.0	Pass

13	0.1501	0.1501	100.0	Pass
14	0.0890	0.0890	100.0	Pass
15	0.0800	0.0800	100.0	Pass
16	0.0728	0.0728	100.0	Pass
17	0.1421	0.1421	100.0	Pass
18	0.2663	0.2663	100.0	Pass
19	0.0717	0.0717	100.0	Pass
20	0.2084	0.2084	100.0	Pass
21	0.1870	0.1870	100.0	Pass
22	0.3673	0.3673	100.0	Pass
23	0.3369	0.3369	100.0	Pass
24	0.2805	0.2805	100.0	Pass
25	0.1121	0.1121	100.0	Pass
26	0.3507	0.3507	100.0	Pass
27	0.3537	0.3537	100.0	Pass
28	0.3485	0.3485	100.0	Pass
29	0.2234	0.2234	100.0	Pass
30	0.3633	0.3633	100.0	Pass
31	0.5696	0.5696	100.0	Pass
Sep1	0.2087	0.2087	100.0	Pass
2	0.2183	0.2183	100.0	Pass
3	0.2429	0.2429	100.0	Pass
4	0.3090	0.3090	100.0	Pass
5	0.2613	0.2613	100.0	Pass
6	0.1817	0.1817	100.0	Pass
7	0.3562	0.3562	100.0	Pass
8	0.2226	0.2226	100.0	Pass
9	0.5816	0.5816	100.0	Pass
10	0.1287	0.1287	100.0	Pass
11	0.1147	0.1147	100.0	Pass
12	0.3126	0.3126	100.0	Pass
13	0.5688	0.5688	100.0	Pass
14	0.3564	0.3564	100.0	Pass
15	0.5492	0.5492	100.0	Pass
16	0.5686	0.5686	100.0	Pass
17	0.6258	0.6258	100.0	Pass
18	0.5593	0.5593	100.0	Pass
19	0.5947	0.5947	100.0	Pass
20	0.4231	0.4231	100.0	Pass
21	0.5929	0.5929	100.0	Pass
22	0.4717	0.4717	100.0	Pass
23	0.3784	0.3784	100.0	Pass
24	0.2699	0.2699	100.0	Pass
25	0.2946	0.2946	100.0	Pass
26	0.2952	0.2952	100.0	Pass
27	0.4000	0.4000	100.0	Pass
28	0.3521	0.3521	100.0	Pass
29	0.4671	0.4671	100.0	Pass
30	0.3291	0.3291	100.0	Pass
Oct1	0.2337	0.2337	100.0	Pass
2	0.6047	0.6047	100.0	Pass
3	0.5339	0.5339	100.0	Pass
4	0.6515	0.6515	100.0	Pass
5	0.6906	0.6906	100.0	Pass
6	0.7603	0.7603	100.0	Pass
7	0.9719	0.9719	100.0	Pass
8	0.7793	0.7793	100.0	Pass

9	0.6008	0.6008	100.0	Pass
10	0.4916	0.4916	100.0	Pass
11	0.9572	0.9572	100.0	Pass
12	0.6296	0.6296	100.0	Pass
13	0.8929	0.8929	100.0	Pass
14	0.4900	0.4900	100.0	Pass
15	0.5956	0.5956	100.0	Pass
16	0.7967	0.7967	100.0	Pass
17	0.7281	0.7281	100.0	Pass
18	1.1738	1.1738	100.0	Pass
19	1.4369	1.4369	100.0	Pass
20	1.2325	1.2325	100.0	Pass
21	1.4907	1.4907	100.0	Pass
22	0.8474	0.8474	100.0	Pass
23	1.4493	1.4493	100.0	Pass
24	1.2609	1.2609	100.0	Pass
25	1.1206	1.1206	100.0	Pass
26	1.3729	1.3729	100.0	Pass
27	1.1500	1.1500	100.0	Pass
28	1.0728	1.0728	100.0	Pass
29	0.9011	0.9011	100.0	Pass
30	1.3676	1.3676	100.0	Pass
31	1.1297	1.1297	100.0	Pass
Nov1	1.4357	1.4357	100.0	Pass
2	1.7538	1.7538	100.0	Pass
3	1.3263	1.3263	100.0	Pass
4	1.3605	1.3605	100.0	Pass
5	1.5076	1.5076	100.0	Pass
6	1.2402	1.2402	100.0	Pass
7	1.1260	1.1260	100.0	Pass
8	1.4846	1.4846	100.0	Pass
9	1.7501	1.7501	100.0	Pass
10	1.4807	1.4807	100.0	Pass
11	1.6640	1.6640	100.0	Pass
12	1.5375	1.5375	100.0	Pass
13	1.1229	1.1229	100.0	Pass
14	1.3510	1.3510	100.0	Pass
15	1.5162	1.5162	100.0	Pass
16	1.5896	1.5896	100.0	Pass
17	1.4382	1.4382	100.0	Pass
18	2.1441	2.1441	100.0	Pass
19	1.8864	1.8864	100.0	Pass
20	1.2150	1.2150	100.0	Pass
21	1.9840	1.9840	100.0	Pass
22	2.3642	2.3642	100.0	Pass
23	1.7483	1.7483	100.0	Pass
24	2.0261	2.0261	100.0	Pass
25	1.2941	1.2941	100.0	Pass
26	1.0498	1.0498	100.0	Pass
27	1.3230	1.3230	100.0	Pass
28	1.2624	1.2624	100.0	Pass
29	2.1293	2.1293	100.0	Pass
30	1.6575	1.6575	100.0	Pass
Dec1	1.8475	1.8475	100.0	Pass
2	1.7711	1.7711	100.0	Pass
3	1.1085	1.1085	100.0	Pass
4	1.2620	1.2620	100.0	Pass

5	1.0692	1.0692	100.0	Pass
6	0.9372	0.9372	100.0	Pass
7	1.3836	1.3836	100.0	Pass
8	1.7399	1.7399	100.0	Pass
9	1.7014	1.7014	100.0	Pass
10	1.8332	1.8332	100.0	Pass
11	1.3158	1.3158	100.0	Pass
12	1.4457	1.4457	100.0	Pass
13	2.1905	2.1905	100.0	Pass
14	1.4614	1.4614	100.0	Pass
15	1.9696	1.9696	100.0	Pass
16	1.2786	1.2786	100.0	Pass
17	1.5704	1.5704	100.0	Pass
18	1.2780	1.2780	100.0	Pass
19	1.5301	1.5301	100.0	Pass
20	1.4793	1.4793	100.0	Pass
21	1.6293	1.6293	100.0	Pass
22	1.6066	1.6066	100.0	Pass
23	1.7548	1.7548	100.0	Pass
24	1.9553	1.9553	100.0	Pass
25	1.6592	1.6592	100.0	Pass
26	1.5106	1.5106	100.0	Pass
27	0.9965	0.9965	100.0	Pass
28	1.6440	1.6440	100.0	Pass
29	1.0444	1.0444	100.0	Pass
30	1.1153	1.1153	100.0	Pass
31	1.9223	1.9223	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #3

Total Pervious Area:0

Total Impervious Area:0.542

Mitigated Landuse Totals for POC #3

Total Pervious Area:0

Total Impervious Area:0.542

Flow Frequency Return Periods for Predeveloped. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.396713
5 year	0.46724
10 year	0.50613
25 year	0.548908
50 year	0.577164
100 year	0.602935

Flow Frequency Return Periods for Mitigated. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.396713

5 year	0.46724
10 year	0.50613
25 year	0.548908
50 year	0.577164
100 year	0.602935

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #3

Year	Predeveloped	Mitigated
1956	0.407	0.407
1957	0.518	0.518
1958	0.407	0.407
1959	0.391	0.391
1960	0.404	0.404
1961	0.350	0.350
1962	0.533	0.533
1963	0.493	0.493
1964	0.437	0.437
1965	0.429	0.429
1966	0.414	0.414
1967	0.274	0.274
1968	0.404	0.404
1969	0.380	0.380
1970	0.376	0.376
1971	0.547	0.547
1972	0.458	0.458
1973	0.442	0.442
1974	0.412	0.412
1975	0.372	0.372
1976	0.451	0.451
1977	0.333	0.333
1978	0.579	0.579
1979	0.361	0.361
1980	0.337	0.337
1981	0.431	0.431
1982	0.496	0.496
1983	0.391	0.391
1984	0.358	0.358
1985	0.286	0.286
1986	0.433	0.433
1987	0.304	0.304
1988	0.457	0.457
1989	0.390	0.390
1990	0.494	0.494
1991	0.348	0.348
1992	0.271	0.271
1993	0.303	0.303
1994	0.368	0.368
1995	0.380	0.380
1996	0.458	0.458
1997	0.432	0.432
1998	0.283	0.283
1999	0.341	0.341
2000	0.324	0.324
2001	0.318	0.318
2002	0.504	0.504

2003	0.519	0.519
2004	0.487	0.487
2005	0.390	0.390
2006	0.396	0.396
2007	0.463	0.463
2008	0.254	0.254
2009	0.242	0.242

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	0.5786	0.5786
2	0.5472	0.5472
3	0.5331	0.5331
4	0.5189	0.5189
5	0.5182	0.5182
6	0.5037	0.5037
7	0.4963	0.4963
8	0.4943	0.4943
9	0.4927	0.4927
10	0.4874	0.4874
11	0.4625	0.4625
12	0.4584	0.4584
13	0.4579	0.4579
14	0.4571	0.4571
15	0.4514	0.4514
16	0.4421	0.4421
17	0.4366	0.4366
18	0.4333	0.4333
19	0.4317	0.4317
20	0.4310	0.4310
21	0.4289	0.4289
22	0.4145	0.4145
23	0.4121	0.4121
24	0.4074	0.4074
25	0.4067	0.4067
26	0.4044	0.4044
27	0.4043	0.4043
28	0.3958	0.3958
29	0.3912	0.3912
30	0.3909	0.3909
31	0.3903	0.3903
32	0.3896	0.3896
33	0.3800	0.3800
34	0.3796	0.3796
35	0.3764	0.3764
36	0.3715	0.3715
37	0.3682	0.3682
38	0.3608	0.3608
39	0.3578	0.3578
40	0.3495	0.3495
41	0.3481	0.3481
42	0.3414	0.3414
43	0.3368	0.3368
44	0.3333	0.3333
45	0.3237	0.3237

46	0.3177	0.3177
47	0.3042	0.3042
48	0.3025	0.3025
49	0.2863	0.2863
50	0.2827	0.2827
51	0.2736	0.2736
52	0.2709	0.2709
53	0.2544	0.2544
54	0.2424	0.2424

Stream Protection Duration

POC #3

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1984	1220	1220	100	Pass
0.2022	1133	1133	100	Pass
0.2060	1060	1060	100	Pass
0.2098	999	999	100	Pass
0.2137	932	932	100	Pass
0.2175	866	866	100	Pass
0.2213	802	802	100	Pass
0.2251	736	736	100	Pass
0.2290	695	695	100	Pass
0.2328	645	645	100	Pass
0.2366	584	584	100	Pass
0.2404	540	540	100	Pass
0.2443	504	504	100	Pass
0.2481	467	467	100	Pass
0.2519	432	432	100	Pass
0.2558	399	399	100	Pass
0.2596	371	371	100	Pass
0.2634	348	348	100	Pass
0.2672	326	326	100	Pass
0.2711	305	305	100	Pass
0.2749	293	293	100	Pass
0.2787	273	273	100	Pass
0.2825	259	259	100	Pass
0.2864	237	237	100	Pass
0.2902	226	226	100	Pass
0.2940	217	217	100	Pass
0.2978	211	211	100	Pass
0.3017	196	196	100	Pass
0.3055	189	189	100	Pass
0.3093	179	179	100	Pass
0.3131	170	170	100	Pass
0.3170	164	164	100	Pass
0.3208	155	155	100	Pass
0.3246	142	142	100	Pass
0.3285	132	132	100	Pass
0.3323	123	123	100	Pass
0.3361	115	115	100	Pass
0.3399	110	110	100	Pass
0.3438	107	107	100	Pass

0.3476	103	103	100	Pass
0.3514	97	97	100	Pass
0.3552	94	94	100	Pass
0.3591	86	86	100	Pass
0.3629	81	81	100	Pass
0.3667	78	78	100	Pass
0.3705	72	72	100	Pass
0.3744	68	68	100	Pass
0.3782	63	63	100	Pass
0.3820	60	60	100	Pass
0.3858	57	57	100	Pass
0.3897	56	56	100	Pass
0.3935	50	50	100	Pass
0.3973	48	48	100	Pass
0.4012	47	47	100	Pass
0.4050	47	47	100	Pass
0.4088	40	40	100	Pass
0.4126	37	37	100	Pass
0.4165	34	34	100	Pass
0.4203	34	34	100	Pass
0.4241	33	33	100	Pass
0.4279	32	32	100	Pass
0.4318	30	30	100	Pass
0.4356	27	27	100	Pass
0.4394	26	26	100	Pass
0.4432	24	24	100	Pass
0.4471	24	24	100	Pass
0.4509	24	24	100	Pass
0.4547	23	23	100	Pass
0.4585	18	18	100	Pass
0.4624	17	17	100	Pass
0.4662	15	15	100	Pass
0.4700	14	14	100	Pass
0.4739	13	13	100	Pass
0.4777	12	12	100	Pass
0.4815	12	12	100	Pass
0.4853	12	12	100	Pass
0.4892	11	11	100	Pass
0.4930	11	11	100	Pass
0.4968	8	8	100	Pass
0.5006	7	7	100	Pass
0.5045	6	6	100	Pass
0.5083	6	6	100	Pass
0.5121	6	6	100	Pass
0.5159	5	5	100	Pass
0.5198	3	3	100	Pass
0.5236	3	3	100	Pass
0.5274	3	3	100	Pass
0.5312	3	3	100	Pass
0.5351	2	2	100	Pass
0.5389	2	2	100	Pass
0.5427	2	2	100	Pass
0.5466	2	2	100	Pass
0.5504	1	1	100	Pass
0.5542	1	1	100	Pass
0.5580	1	1	100	Pass
0.5619	1	1	100	Pass

0.5657	1	1	100	Pass
0.5695	1	1	100	Pass
0.5733	1	1	100	Pass
0.5772	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #3
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 3

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	23.8931	23.8931	100.0	Pass
Feb	18.2426	18.2426	100.0	Pass
Mar	16.2818	16.2818	100.0	Pass
Apr	9.2638	9.2638	100.0	Pass
May	5.2235	5.2235	100.0	Pass
Jun	3.5441	3.5441	100.0	Pass
Jul	1.7894	1.7894	100.0	Pass
Aug	2.6918	2.6918	100.0	Pass
Sep	5.9180	5.9180	100.0	Pass
Oct	13.9853	13.9853	100.0	Pass
Nov	22.9622	22.9622	100.0	Pass
Dec	23.0283	23.0283	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.7695	0.7695	100.0	Pass
2	0.5907	0.5907	100.0	Pass
3	0.7772	0.7772	100.0	Pass
4	0.9290	0.9290	100.0	Pass
5	0.6408	0.6408	100.0	Pass
6	1.0190	1.0190	100.0	Pass
7	0.7503	0.7503	100.0	Pass
8	0.7634	0.7634	100.0	Pass
9	0.8299	0.8299	100.0	Pass
10	0.7915	0.7915	100.0	Pass
11	0.9854	0.9854	100.0	Pass
12	0.7463	0.7463	100.0	Pass
13	0.9743	0.9743	100.0	Pass
14	0.9603	0.9603	100.0	Pass
15	0.8654	0.8654	100.0	Pass
16	0.6874	0.6874	100.0	Pass
17	0.6668	0.6668	100.0	Pass
18	0.5885	0.5885	100.0	Pass
19	0.6005	0.6005	100.0	Pass
20	0.3735	0.3735	100.0	Pass
21	0.8119	0.8119	100.0	Pass
22	0.9517	0.9517	100.0	Pass
23	1.0508	1.0508	100.0	Pass
24	0.6776	0.6776	100.0	Pass

25	0.5745	0.5745	100.0	Pass
26	0.5194	0.5194	100.0	Pass
27	0.6942	0.6942	100.0	Pass
28	0.8901	0.8901	100.0	Pass
29	0.6516	0.6516	100.0	Pass
30	0.7970	0.7970	100.0	Pass
31	0.4433	0.4433	100.0	Pass
Feb1	0.5311	0.5311	100.0	Pass
2	0.4917	0.4917	100.0	Pass
3	0.4384	0.4384	100.0	Pass
4	0.4060	0.4060	100.0	Pass
5	0.7948	0.7948	100.0	Pass
6	0.3570	0.3570	100.0	Pass
7	0.5706	0.5706	100.0	Pass
8	0.4176	0.4176	100.0	Pass
9	0.5258	0.5258	100.0	Pass
10	0.7090	0.7090	100.0	Pass
11	0.9226	0.9226	100.0	Pass
12	0.6910	0.6910	100.0	Pass
13	0.7600	0.7600	100.0	Pass
14	1.0951	1.0951	100.0	Pass
15	0.7453	0.7453	100.0	Pass
16	1.0235	1.0235	100.0	Pass
17	0.8768	0.8768	100.0	Pass
18	0.6629	0.6629	100.0	Pass
19	0.5820	0.5820	100.0	Pass
20	0.5693	0.5693	100.0	Pass
21	0.4668	0.4668	100.0	Pass
22	0.7155	0.7155	100.0	Pass
23	0.6710	0.6710	100.0	Pass
24	0.7410	0.7410	100.0	Pass
25	0.6505	0.6505	100.0	Pass
26	0.6344	0.6344	100.0	Pass
27	0.5544	0.5544	100.0	Pass
28	0.7633	0.7633	100.0	Pass
29	0.5402	0.5402	100.0	Pass
Mar1	0.5381	0.5381	100.0	Pass
2	0.4316	0.4316	100.0	Pass
3	0.6388	0.6388	100.0	Pass
4	0.6633	0.6633	100.0	Pass
5	0.5079	0.5079	100.0	Pass
6	0.6521	0.6521	100.0	Pass
7	0.6514	0.6514	100.0	Pass
8	0.6185	0.6185	100.0	Pass
9	0.6207	0.6207	100.0	Pass
10	0.5296	0.5296	100.0	Pass
11	0.5846	0.5846	100.0	Pass
12	0.5164	0.5164	100.0	Pass
13	0.6368	0.6368	100.0	Pass
14	0.4895	0.4895	100.0	Pass
15	0.3957	0.3957	100.0	Pass
16	0.3897	0.3897	100.0	Pass
17	0.5389	0.5389	100.0	Pass
18	0.3127	0.3127	100.0	Pass
19	0.5035	0.5035	100.0	Pass
20	0.3938	0.3938	100.0	Pass
21	0.6951	0.6951	100.0	Pass

22	0.7727	0.7727	100.0	Pass
23	0.6064	0.6064	100.0	Pass
24	0.3646	0.3646	100.0	Pass
25	0.6216	0.6216	100.0	Pass
26	0.4259	0.4259	100.0	Pass
27	0.4236	0.4236	100.0	Pass
28	0.4717	0.4717	100.0	Pass
29	0.4355	0.4355	100.0	Pass
30	0.3141	0.3141	100.0	Pass
31	0.2544	0.2544	100.0	Pass
Apr1	0.2813	0.2813	100.0	Pass
2	0.3229	0.3229	100.0	Pass
3	0.4632	0.4632	100.0	Pass
4	0.4024	0.4024	100.0	Pass
5	0.4243	0.4243	100.0	Pass
6	0.2131	0.2131	100.0	Pass
7	0.3958	0.3958	100.0	Pass
8	0.3865	0.3865	100.0	Pass
9	0.3479	0.3479	100.0	Pass
10	0.3338	0.3338	100.0	Pass
11	0.4882	0.4882	100.0	Pass
12	0.3991	0.3991	100.0	Pass
13	0.4240	0.4240	100.0	Pass
14	0.3514	0.3514	100.0	Pass
15	0.3761	0.3761	100.0	Pass
16	0.1948	0.1948	100.0	Pass
17	0.2962	0.2962	100.0	Pass
18	0.3444	0.3444	100.0	Pass
19	0.1661	0.1661	100.0	Pass
20	0.1735	0.1735	100.0	Pass
21	0.3130	0.3130	100.0	Pass
22	0.2562	0.2562	100.0	Pass
23	0.2169	0.2169	100.0	Pass
24	0.1722	0.1722	100.0	Pass
25	0.2188	0.2188	100.0	Pass
26	0.3653	0.3653	100.0	Pass
27	0.2742	0.2742	100.0	Pass
28	0.2843	0.2843	100.0	Pass
29	0.1249	0.1249	100.0	Pass
30	0.1910	0.1910	100.0	Pass
May1	0.3088	0.3088	100.0	Pass
2	0.2080	0.2080	100.0	Pass
3	0.2348	0.2348	100.0	Pass
4	0.1750	0.1750	100.0	Pass
5	0.1726	0.1726	100.0	Pass
6	0.1472	0.1472	100.0	Pass
7	0.2006	0.2006	100.0	Pass
8	0.1156	0.1156	100.0	Pass
9	0.1742	0.1742	100.0	Pass
10	0.1393	0.1393	100.0	Pass
11	0.1323	0.1323	100.0	Pass
12	0.1888	0.1888	100.0	Pass
13	0.2025	0.2025	100.0	Pass
14	0.1972	0.1972	100.0	Pass
15	0.1223	0.1223	100.0	Pass
16	0.1731	0.1731	100.0	Pass
17	0.1355	0.1355	100.0	Pass

18	0.2354	0.2354	100.0	Pass
19	0.1144	0.1144	100.0	Pass
20	0.1176	0.1176	100.0	Pass
21	0.1217	0.1217	100.0	Pass
22	0.1508	0.1508	100.0	Pass
23	0.1285	0.1285	100.0	Pass
24	0.1355	0.1355	100.0	Pass
25	0.1108	0.1108	100.0	Pass
26	0.2026	0.2026	100.0	Pass
27	0.1525	0.1525	100.0	Pass
28	0.1672	0.1672	100.0	Pass
29	0.2274	0.2274	100.0	Pass
30	0.1408	0.1408	100.0	Pass
31	0.1551	0.1551	100.0	Pass
Jun1	0.1126	0.1126	100.0	Pass
2	0.2054	0.2054	100.0	Pass
3	0.1904	0.1904	100.0	Pass
4	0.1358	0.1358	100.0	Pass
5	0.2321	0.2321	100.0	Pass
6	0.0754	0.0754	100.0	Pass
7	0.1276	0.1276	100.0	Pass
8	0.1888	0.1888	100.0	Pass
9	0.1389	0.1389	100.0	Pass
10	0.1356	0.1356	100.0	Pass
11	0.0951	0.0951	100.0	Pass
12	0.1229	0.1229	100.0	Pass
13	0.1950	0.1950	100.0	Pass
14	0.0718	0.0718	100.0	Pass
15	0.1577	0.1577	100.0	Pass
16	0.0612	0.0612	100.0	Pass
17	0.0942	0.0942	100.0	Pass
18	0.0598	0.0598	100.0	Pass
19	0.0797	0.0797	100.0	Pass
20	0.0906	0.0906	100.0	Pass
21	0.0837	0.0837	100.0	Pass
22	0.0452	0.0452	100.0	Pass
23	0.2547	0.2547	100.0	Pass
24	0.0537	0.0537	100.0	Pass
25	0.1085	0.1085	100.0	Pass
26	0.0647	0.0647	100.0	Pass
27	0.0612	0.0612	100.0	Pass
28	0.0636	0.0636	100.0	Pass
29	0.0834	0.0834	100.0	Pass
30	0.1749	0.1749	100.0	Pass
Jul1	0.0392	0.0392	100.0	Pass
2	0.0368	0.0368	100.0	Pass
3	0.0428	0.0428	100.0	Pass
4	0.1077	0.1077	100.0	Pass
5	0.0775	0.0775	100.0	Pass
6	0.0589	0.0589	100.0	Pass
7	0.1105	0.1105	100.0	Pass
8	0.0584	0.0584	100.0	Pass
9	0.1312	0.1312	100.0	Pass
10	0.0817	0.0817	100.0	Pass
11	0.1640	0.1640	100.0	Pass
12	0.0694	0.0694	100.0	Pass
13	0.0567	0.0567	100.0	Pass

14	0.0953	0.0953	100.0	Pass
15	0.0373	0.0373	100.0	Pass
16	0.0236	0.0236	100.0	Pass
17	0.0842	0.0842	100.0	Pass
18	0.0245	0.0245	100.0	Pass
19	0.0359	0.0359	100.0	Pass
20	0.0633	0.0633	100.0	Pass
21	0.0477	0.0477	100.0	Pass
22	0.0015	0.0015	100.0	Pass
23	0.0139	0.0139	100.0	Pass
24	0.0165	0.0165	100.0	Pass
25	0.0388	0.0388	100.0	Pass
26	0.0171	0.0171	100.0	Pass
27	0.0242	0.0242	100.0	Pass
28	0.0203	0.0203	100.0	Pass
29	0.0128	0.0128	100.0	Pass
30	0.0229	0.0229	100.0	Pass
31	0.0254	0.0254	100.0	Pass
Aug1	0.1036	0.1036	100.0	Pass
2	0.0338	0.0338	100.0	Pass
3	0.0128	0.0128	100.0	Pass
4	0.0131	0.0131	100.0	Pass
5	0.1163	0.1163	100.0	Pass
6	0.0772	0.0772	100.0	Pass
7	0.0261	0.0261	100.0	Pass
8	0.0282	0.0282	100.0	Pass
9	0.0020	0.0020	100.0	Pass
10	0.0158	0.0158	100.0	Pass
11	0.0756	0.0756	100.0	Pass
12	0.0656	0.0656	100.0	Pass
13	0.0804	0.0804	100.0	Pass
14	0.0463	0.0463	100.0	Pass
15	0.0411	0.0411	100.0	Pass
16	0.0382	0.0382	100.0	Pass
17	0.0767	0.0767	100.0	Pass
18	0.1439	0.1439	100.0	Pass
19	0.0362	0.0362	100.0	Pass
20	0.1118	0.1118	100.0	Pass
21	0.0986	0.0986	100.0	Pass
22	0.1953	0.1953	100.0	Pass
23	0.1760	0.1760	100.0	Pass
24	0.1416	0.1416	100.0	Pass
25	0.0535	0.0535	100.0	Pass
26	0.1854	0.1854	100.0	Pass
27	0.1848	0.1848	100.0	Pass
28	0.1802	0.1802	100.0	Pass
29	0.1145	0.1145	100.0	Pass
30	0.1919	0.1919	100.0	Pass
31	0.2988	0.2988	100.0	Pass
Sep1	0.1009	0.1009	100.0	Pass
2	0.1096	0.1096	100.0	Pass
3	0.1247	0.1247	100.0	Pass
4	0.1615	0.1615	100.0	Pass
5	0.1354	0.1354	100.0	Pass
6	0.0932	0.0932	100.0	Pass
7	0.1893	0.1893	100.0	Pass
8	0.1152	0.1152	100.0	Pass

9	0.3099	0.3099	100.0	Pass
10	0.0633	0.0633	100.0	Pass
11	0.0585	0.0585	100.0	Pass
12	0.1661	0.1661	100.0	Pass
13	0.3009	0.3009	100.0	Pass
14	0.1830	0.1830	100.0	Pass
15	0.2874	0.2874	100.0	Pass
16	0.2918	0.2918	100.0	Pass
17	0.3249	0.3249	100.0	Pass
18	0.2889	0.2889	100.0	Pass
19	0.3048	0.3048	100.0	Pass
20	0.2107	0.2107	100.0	Pass
21	0.3004	0.3004	100.0	Pass
22	0.2375	0.2375	100.0	Pass
23	0.1908	0.1908	100.0	Pass
24	0.1355	0.1355	100.0	Pass
25	0.1519	0.1519	100.0	Pass
26	0.1524	0.1524	100.0	Pass
27	0.2056	0.2056	100.0	Pass
28	0.1823	0.1823	100.0	Pass
29	0.2436	0.2436	100.0	Pass
30	0.1670	0.1670	100.0	Pass
Oct1	0.1170	0.1170	100.0	Pass
2	0.3196	0.3196	100.0	Pass
3	0.2785	0.2785	100.0	Pass
4	0.3377	0.3377	100.0	Pass
5	0.3575	0.3575	100.0	Pass
6	0.3941	0.3941	100.0	Pass
7	0.5021	0.5021	100.0	Pass
8	0.3957	0.3957	100.0	Pass
9	0.3016	0.3016	100.0	Pass
10	0.2462	0.2462	100.0	Pass
11	0.4983	0.4983	100.0	Pass
12	0.3182	0.3182	100.0	Pass
13	0.4619	0.4619	100.0	Pass
14	0.2411	0.2411	100.0	Pass
15	0.3015	0.3015	100.0	Pass
16	0.4060	0.4060	100.0	Pass
17	0.3690	0.3690	100.0	Pass
18	0.6004	0.6004	100.0	Pass
19	0.7309	0.7309	100.0	Pass
20	0.6235	0.6235	100.0	Pass
21	0.7557	0.7557	100.0	Pass
22	0.4102	0.4102	100.0	Pass
23	0.7341	0.7341	100.0	Pass
24	0.6317	0.6317	100.0	Pass
25	0.5578	0.5578	100.0	Pass
26	0.6919	0.6919	100.0	Pass
27	0.5696	0.5696	100.0	Pass
28	0.5326	0.5326	100.0	Pass
29	0.4428	0.4428	100.0	Pass
30	0.6939	0.6939	100.0	Pass
31	0.5607	0.5607	100.0	Pass
Nov1	0.7197	0.7197	100.0	Pass
2	0.8920	0.8920	100.0	Pass
3	0.6511	0.6511	100.0	Pass
4	0.6781	0.6781	100.0	Pass

5	0.7524	0.7524	100.0	Pass
6	0.6088	0.6088	100.0	Pass
7	0.5532	0.5532	100.0	Pass
8	0.7484	0.7484	100.0	Pass
9	0.8806	0.8806	100.0	Pass
10	0.7342	0.7342	100.0	Pass
11	0.8305	0.8305	100.0	Pass
12	0.7665	0.7665	100.0	Pass
13	0.5419	0.5419	100.0	Pass
14	0.6723	0.6723	100.0	Pass
15	0.7570	0.7570	100.0	Pass
16	0.7949	0.7949	100.0	Pass
17	0.7118	0.7118	100.0	Pass
18	1.0791	1.0791	100.0	Pass
19	0.9344	0.9344	100.0	Pass
20	0.5823	0.5823	100.0	Pass
21	0.9917	0.9917	100.0	Pass
22	1.1933	1.1933	100.0	Pass
23	0.8539	0.8539	100.0	Pass
24	1.0030	1.0030	100.0	Pass
25	0.6165	0.6165	100.0	Pass
26	0.5003	0.5003	100.0	Pass
27	0.6558	0.6558	100.0	Pass
28	0.6250	0.6250	100.0	Pass
29	1.0765	1.0765	100.0	Pass
30	0.8146	0.8146	100.0	Pass
Dec1	0.9176	0.9176	100.0	Pass
2	0.8709	0.8709	100.0	Pass
3	0.5284	0.5284	100.0	Pass
4	0.6198	0.6198	100.0	Pass
5	0.5175	0.5175	100.0	Pass
6	0.4582	0.4582	100.0	Pass
7	0.6956	0.6956	100.0	Pass
8	0.8757	0.8757	100.0	Pass
9	0.8451	0.8451	100.0	Pass
10	0.9071	0.9071	100.0	Pass
11	0.6399	0.6399	100.0	Pass
12	0.7128	0.7128	100.0	Pass
13	1.1053	1.1053	100.0	Pass
14	0.7056	0.7056	100.0	Pass
15	0.9832	0.9832	100.0	Pass
16	0.6124	0.6124	100.0	Pass
17	0.7758	0.7758	100.0	Pass
18	0.6232	0.6232	100.0	Pass
19	0.7633	0.7633	100.0	Pass
20	0.7286	0.7286	100.0	Pass
21	0.8024	0.8024	100.0	Pass
22	0.7943	0.7943	100.0	Pass
23	0.8709	0.8709	100.0	Pass
24	0.9765	0.9765	100.0	Pass
25	0.8100	0.8100	100.0	Pass
26	0.7343	0.7343	100.0	Pass
27	0.4750	0.4750	100.0	Pass
28	0.8216	0.8216	100.0	Pass
29	0.4998	0.4998	100.0	Pass
30	0.5465	0.5465	100.0	Pass
31	0.9684	0.9684	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #4
Total Pervious Area:0.267
Total Impervious Area:1.955

Mitigated Landuse Totals for POC #4
Total Pervious Area:0.267
Total Impervious Area:1.955

Flow Frequency Return Periods for Predeveloped. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.541399
5 year	1.827717
10 year	1.982421
25 year	2.149542
50 year	2.258019
100 year	2.355552

Flow Frequency Return Periods for Mitigated. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.541399
5 year	1.827717
10 year	1.982421
25 year	2.149542
50 year	2.258019
100 year	2.355552

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #4

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.616	1.616
1957	2.022	2.022
1958	1.564	1.564
1959	1.542	1.542
1960	1.602	1.602
1961	1.318	1.318
1962	2.115	2.115
1963	1.945	1.945
1964	1.692	1.692
1965	1.681	1.681
1966	1.639	1.639
1967	1.051	1.051
1968	1.586	1.586
1969	1.502	1.502
1970	1.435	1.435
1971	2.162	2.162
1972	1.823	1.823

1973	1.718	1.718
1974	1.631	1.631
1975	1.450	1.450
1976	1.773	1.773
1977	1.290	1.290
1978	2.253	2.253
1979	1.412	1.412
1980	1.304	1.304
1981	1.669	1.669
1982	1.924	1.924
1983	1.517	1.517
1984	1.396	1.396
1985	1.075	1.075
1986	1.695	1.695
1987	1.183	1.183
1988	1.791	1.791
1989	1.515	1.515
1990	1.953	1.953
1991	1.292	1.292
1992	1.016	1.016
1993	1.143	1.143
1994	1.431	1.431
1995	1.409	1.409
1996	1.712	1.712
1997	1.669	1.669
1998	1.042	1.042
1999	1.319	1.319
2000	1.212	1.212
2001	1.198	1.198
2002	1.842	1.842
2003	2.061	2.061
2004	1.920	1.920
2005	1.522	1.522
2006	1.550	1.550
2007	1.826	1.826
2008	0.965	0.965
2009	0.914	0.914

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	2.2530	2.2530
2	2.1622	2.1622
3	2.1149	2.1149
4	2.0607	2.0607
5	2.0221	2.0221
6	1.9531	1.9531
7	1.9453	1.9453
8	1.9239	1.9239
9	1.9198	1.9198
10	1.8416	1.8416
11	1.8255	1.8255
12	1.8234	1.8234
13	1.7913	1.7913
14	1.7727	1.7727
15	1.7177	1.7177

16	1.7123	1.7123
17	1.6948	1.6948
18	1.6924	1.6924
19	1.6814	1.6814
20	1.6689	1.6689
21	1.6687	1.6687
22	1.6393	1.6393
23	1.6314	1.6314
24	1.6157	1.6157
25	1.6016	1.6016
26	1.5865	1.5865
27	1.5645	1.5645
28	1.5499	1.5499
29	1.5422	1.5422
30	1.5220	1.5220
31	1.5173	1.5173
32	1.5151	1.5151
33	1.5022	1.5022
34	1.4502	1.4502
35	1.4346	1.4346
36	1.4307	1.4307
37	1.4119	1.4119
38	1.4086	1.4086
39	1.3962	1.3962
40	1.3192	1.3192
41	1.3178	1.3178
42	1.3035	1.3035
43	1.2923	1.2923
44	1.2896	1.2896
45	1.2124	1.2124
46	1.1984	1.1984
47	1.1830	1.1830
48	1.1428	1.1428
49	1.0748	1.0748
50	1.0506	1.0506
51	1.0423	1.0423
52	1.0159	1.0159
53	0.9654	0.9654
54	0.9137	0.9137

Stream Protection Duration

POC #4

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.7707	1100	1100	100	Pass
0.7857	1028	1028	100	Pass
0.8007	957	957	100	Pass
0.8158	889	889	100	Pass
0.8308	831	831	100	Pass
0.8458	769	769	100	Pass
0.8608	715	715	100	Pass
0.8759	658	658	100	Pass
0.8909	608	608	100	Pass

0.9059	563	563	100	Pass
0.9209	529	529	100	Pass
0.9360	495	495	100	Pass
0.9510	464	464	100	Pass
0.9660	422	422	100	Pass
0.9810	395	395	100	Pass
0.9961	367	367	100	Pass
1.0111	344	344	100	Pass
1.0261	318	318	100	Pass
1.0411	299	299	100	Pass
1.0561	285	285	100	Pass
1.0712	267	267	100	Pass
1.0862	255	255	100	Pass
1.1012	238	238	100	Pass
1.1162	227	227	100	Pass
1.1313	216	216	100	Pass
1.1463	201	201	100	Pass
1.1613	194	194	100	Pass
1.1763	185	185	100	Pass
1.1914	174	174	100	Pass
1.2064	166	166	100	Pass
1.2214	159	159	100	Pass
1.2364	151	151	100	Pass
1.2514	142	142	100	Pass
1.2665	136	136	100	Pass
1.2815	126	126	100	Pass
1.2965	116	116	100	Pass
1.3115	108	108	100	Pass
1.3266	100	100	100	Pass
1.3416	98	98	100	Pass
1.3566	93	93	100	Pass
1.3716	91	91	100	Pass
1.3867	89	89	100	Pass
1.4017	81	81	100	Pass
1.4167	77	77	100	Pass
1.4317	73	73	100	Pass
1.4468	70	70	100	Pass
1.4618	64	64	100	Pass
1.4768	63	63	100	Pass
1.4918	61	61	100	Pass
1.5068	57	57	100	Pass
1.5219	53	53	100	Pass
1.5369	51	51	100	Pass
1.5519	46	46	100	Pass
1.5669	43	43	100	Pass
1.5820	43	43	100	Pass
1.5970	42	42	100	Pass
1.6120	40	40	100	Pass
1.6270	38	38	100	Pass
1.6421	34	34	100	Pass
1.6571	34	34	100	Pass
1.6721	32	32	100	Pass
1.6871	28	28	100	Pass
1.7022	26	26	100	Pass
1.7172	24	24	100	Pass
1.7322	23	23	100	Pass
1.7472	23	23	100	Pass

1.7622	23	23	100	Pass
1.7773	21	21	100	Pass
1.7923	18	18	100	Pass
1.8073	18	18	100	Pass
1.8223	17	17	100	Pass
1.8374	14	14	100	Pass
1.8524	13	13	100	Pass
1.8674	12	12	100	Pass
1.8824	11	11	100	Pass
1.8975	11	11	100	Pass
1.9125	11	11	100	Pass
1.9275	9	9	100	Pass
1.9425	9	9	100	Pass
1.9576	6	6	100	Pass
1.9726	6	6	100	Pass
1.9876	6	6	100	Pass
2.0026	6	6	100	Pass
2.0176	6	6	100	Pass
2.0327	5	5	100	Pass
2.0477	4	4	100	Pass
2.0627	3	3	100	Pass
2.0777	3	3	100	Pass
2.0928	3	3	100	Pass
2.1078	3	3	100	Pass
2.1228	2	2	100	Pass
2.1378	2	2	100	Pass
2.1529	2	2	100	Pass
2.1679	1	1	100	Pass
2.1829	1	1	100	Pass
2.1979	1	1	100	Pass
2.2129	1	1	100	Pass
2.2280	1	1	100	Pass
2.2430	1	1	100	Pass
2.2580	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 4

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	95.5769	95.5769	100.0	Pass
Feb	73.1459	73.1459	100.0	Pass
Mar	65.1843	65.1843	100.0	Pass
Apr	36.7818	36.7818	100.0	Pass
May	20.2398	20.2398	100.0	Pass
Jun	13.5731	13.5731	100.0	Pass
Jul	6.7675	6.7675	100.0	Pass
Aug	10.0996	10.0996	100.0	Pass

Sep	22.6173	22.6173	100.0	Pass
Oct	54.4262	54.4262	100.0	Pass
Nov	91.1527	91.1527	100.0	Pass
Dec	92.1502	92.1502	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	3.0695	3.0695	100.0	Pass
2	2.3937	2.3937	100.0	Pass
3	3.0874	3.0874	100.0	Pass
4	3.6506	3.6506	100.0	Pass
5	2.5999	2.5999	100.0	Pass
6	3.9966	3.9966	100.0	Pass
7	3.0334	3.0334	100.0	Pass
8	3.0634	3.0634	100.0	Pass
9	3.2925	3.2925	100.0	Pass
10	3.1761	3.1761	100.0	Pass
11	3.9130	3.9130	100.0	Pass
12	3.0236	3.0236	100.0	Pass
13	3.8695	3.8695	100.0	Pass
14	3.8365	3.8365	100.0	Pass
15	3.4832	3.4832	100.0	Pass
16	2.8215	2.8215	100.0	Pass
17	2.7168	2.7168	100.0	Pass
18	2.4004	2.4004	100.0	Pass
19	2.4176	2.4176	100.0	Pass
20	1.5574	1.5574	100.0	Pass
21	3.1399	3.1399	100.0	Pass
22	3.7458	3.7458	100.0	Pass
23	4.1668	4.1668	100.0	Pass
24	2.7772	2.7772	100.0	Pass
25	2.3592	2.3592	100.0	Pass
26	2.1316	2.1316	100.0	Pass
27	2.7562	2.7562	100.0	Pass
28	3.5130	3.5130	100.0	Pass
29	2.6383	2.6383	100.0	Pass
30	3.1666	3.1666	100.0	Pass
31	1.8451	1.8451	100.0	Pass
Feb1	2.1456	2.1456	100.0	Pass
2	1.9724	1.9724	100.0	Pass
3	1.7724	1.7724	100.0	Pass
4	1.6411	1.6411	100.0	Pass
5	3.0987	3.0987	100.0	Pass
6	1.4932	1.4932	100.0	Pass
7	2.2563	2.2563	100.0	Pass
8	1.6909	1.6909	100.0	Pass
9	2.0733	2.0733	100.0	Pass
10	2.7713	2.7713	100.0	Pass
11	3.6279	3.6279	100.0	Pass
12	2.7926	2.7926	100.0	Pass
13	3.0249	3.0249	100.0	Pass
14	4.2867	4.2867	100.0	Pass
15	3.0356	3.0356	100.0	Pass
16	4.0518	4.0518	100.0	Pass
17	3.5273	3.5273	100.0	Pass
18	2.7346	2.7346	100.0	Pass
19	2.3897	2.3897	100.0	Pass
20	2.3182	2.3182	100.0	Pass

21	1.9022	1.9022	100.0	Pass
22	2.8343	2.8343	100.0	Pass
23	2.6794	2.6794	100.0	Pass
24	2.9521	2.9521	100.0	Pass
25	2.6227	2.6227	100.0	Pass
26	2.5656	2.5656	100.0	Pass
27	2.2520	2.2520	100.0	Pass
28	3.0636	3.0636	100.0	Pass
29	2.1802	2.1802	100.0	Pass
Mar1	2.1604	2.1604	100.0	Pass
2	1.7551	1.7551	100.0	Pass
3	2.5225	2.5225	100.0	Pass
4	2.6316	2.6316	100.0	Pass
5	2.0456	2.0456	100.0	Pass
6	2.6034	2.6034	100.0	Pass
7	2.5793	2.5793	100.0	Pass
8	2.4736	2.4736	100.0	Pass
9	2.4831	2.4831	100.0	Pass
10	2.1421	2.1421	100.0	Pass
11	2.3420	2.3420	100.0	Pass
12	2.0748	2.0748	100.0	Pass
13	2.5317	2.5317	100.0	Pass
14	1.9825	1.9825	100.0	Pass
15	1.6126	1.6126	100.0	Pass
16	1.5688	1.5688	100.0	Pass
17	2.1424	2.1424	100.0	Pass
18	1.2847	1.2847	100.0	Pass
19	1.9827	1.9827	100.0	Pass
20	1.5771	1.5771	100.0	Pass
21	2.7084	2.7084	100.0	Pass
22	3.0254	3.0254	100.0	Pass
23	2.4422	2.4422	100.0	Pass
24	1.5280	1.5280	100.0	Pass
25	2.4553	2.4553	100.0	Pass
26	1.7384	1.7384	100.0	Pass
27	1.6974	1.6974	100.0	Pass
28	1.8915	1.8915	100.0	Pass
29	1.7428	1.7428	100.0	Pass
30	1.2852	1.2852	100.0	Pass
31	1.0411	1.0411	100.0	Pass
Apr1	1.1269	1.1269	100.0	Pass
2	1.2786	1.2786	100.0	Pass
3	1.7945	1.7945	100.0	Pass
4	1.5922	1.5922	100.0	Pass
5	1.6967	1.6967	100.0	Pass
6	0.8897	0.8897	100.0	Pass
7	1.5474	1.5474	100.0	Pass
8	1.5338	1.5338	100.0	Pass
9	1.3751	1.3751	100.0	Pass
10	1.3373	1.3373	100.0	Pass
11	1.8930	1.8930	100.0	Pass
12	1.5869	1.5869	100.0	Pass
13	1.6722	1.6722	100.0	Pass
14	1.4077	1.4077	100.0	Pass
15	1.5034	1.5034	100.0	Pass
16	0.8170	0.8170	100.0	Pass
17	1.1699	1.1699	100.0	Pass

18	1.3508	1.3508	100.0	Pass
19	0.6939	0.6939	100.0	Pass
20	0.6974	0.6974	100.0	Pass
21	1.2088	1.2088	100.0	Pass
22	1.0042	1.0042	100.0	Pass
23	0.8637	0.8637	100.0	Pass
24	0.6911	0.6911	100.0	Pass
25	0.8527	0.8527	100.0	Pass
26	1.4212	1.4212	100.0	Pass
27	1.0863	1.0863	100.0	Pass
28	1.1265	1.1265	100.0	Pass
29	0.5253	0.5253	100.0	Pass
30	0.7481	0.7481	100.0	Pass
May1	1.1822	1.1822	100.0	Pass
2	0.8255	0.8255	100.0	Pass
3	0.9136	0.9136	100.0	Pass
4	0.6966	0.6966	100.0	Pass
5	0.6793	0.6793	100.0	Pass
6	0.5781	0.5781	100.0	Pass
7	0.7746	0.7746	100.0	Pass
8	0.4624	0.4624	100.0	Pass
9	0.6711	0.6711	100.0	Pass
10	0.5407	0.5407	100.0	Pass
11	0.5114	0.5114	100.0	Pass
12	0.7246	0.7246	100.0	Pass
13	0.7774	0.7774	100.0	Pass
14	0.7574	0.7574	100.0	Pass
15	0.4901	0.4901	100.0	Pass
16	0.6646	0.6646	100.0	Pass
17	0.5307	0.5307	100.0	Pass
18	0.8903	0.8903	100.0	Pass
19	0.4527	0.4527	100.0	Pass
20	0.4539	0.4539	100.0	Pass
21	0.4689	0.4689	100.0	Pass
22	0.5718	0.5718	100.0	Pass
23	0.4951	0.4951	100.0	Pass
24	0.5221	0.5221	100.0	Pass
25	0.4326	0.4326	100.0	Pass
26	0.7695	0.7695	100.0	Pass
27	0.5906	0.5906	100.0	Pass
28	0.6418	0.6418	100.0	Pass
29	0.8717	0.8717	100.0	Pass
30	0.5528	0.5528	100.0	Pass
31	0.6056	0.6056	100.0	Pass
Jun1	0.4492	0.4492	100.0	Pass
2	0.7759	0.7759	100.0	Pass
3	0.7238	0.7238	100.0	Pass
4	0.5265	0.5265	100.0	Pass
5	0.8796	0.8796	100.0	Pass
6	0.3095	0.3095	100.0	Pass
7	0.4957	0.4957	100.0	Pass
8	0.7201	0.7201	100.0	Pass
9	0.5365	0.5365	100.0	Pass
10	0.5178	0.5178	100.0	Pass
11	0.3689	0.3689	100.0	Pass
12	0.4648	0.4648	100.0	Pass
13	0.7351	0.7351	100.0	Pass

14	0.2866	0.2866	100.0	Pass
15	0.5989	0.5989	100.0	Pass
16	0.2475	0.2475	100.0	Pass
17	0.3626	0.3626	100.0	Pass
18	0.2390	0.2390	100.0	Pass
19	0.3024	0.3024	100.0	Pass
20	0.3392	0.3392	100.0	Pass
21	0.3184	0.3184	100.0	Pass
22	0.1766	0.1766	100.0	Pass
23	0.9396	0.9396	100.0	Pass
24	0.2222	0.2222	100.0	Pass
25	0.4109	0.4109	100.0	Pass
26	0.2469	0.2469	100.0	Pass
27	0.2295	0.2295	100.0	Pass
28	0.2370	0.2370	100.0	Pass
29	0.3088	0.3088	100.0	Pass
30	0.6518	0.6518	100.0	Pass
Jul1	0.1571	0.1571	100.0	Pass
2	0.1416	0.1416	100.0	Pass
3	0.1601	0.1601	100.0	Pass
4	0.3924	0.3924	100.0	Pass
5	0.2854	0.2854	100.0	Pass
6	0.2179	0.2179	100.0	Pass
7	0.4112	0.4112	100.0	Pass
8	0.2266	0.2266	100.0	Pass
9	0.4875	0.4875	100.0	Pass
10	0.3107	0.3107	100.0	Pass
11	0.6227	0.6227	100.0	Pass
12	0.2871	0.2871	100.0	Pass
13	0.2271	0.2271	100.0	Pass
14	0.3616	0.3616	100.0	Pass
15	0.1470	0.1470	100.0	Pass
16	0.0925	0.0925	100.0	Pass
17	0.3141	0.3141	100.0	Pass
18	0.0993	0.0993	100.0	Pass
19	0.1367	0.1367	100.0	Pass
20	0.2346	0.2346	100.0	Pass
21	0.1814	0.1814	100.0	Pass
22	0.0111	0.0111	100.0	Pass
23	0.0529	0.0529	100.0	Pass
24	0.0609	0.0609	100.0	Pass
25	0.1409	0.1409	100.0	Pass
26	0.0623	0.0623	100.0	Pass
27	0.0880	0.0880	100.0	Pass
28	0.0745	0.0745	100.0	Pass
29	0.0478	0.0478	100.0	Pass
30	0.0833	0.0833	100.0	Pass
31	0.0928	0.0928	100.0	Pass
Aug1	0.3775	0.3775	100.0	Pass
2	0.1291	0.1291	100.0	Pass
3	0.0519	0.0519	100.0	Pass
4	0.0504	0.0504	100.0	Pass
5	0.4268	0.4268	100.0	Pass
6	0.2884	0.2884	100.0	Pass
7	0.1017	0.1017	100.0	Pass
8	0.1060	0.1060	100.0	Pass
9	0.0094	0.0094	100.0	Pass

10	0.0587	0.0587	100.0	Pass
11	0.2751	0.2751	100.0	Pass
12	0.2401	0.2401	100.0	Pass
13	0.2959	0.2959	100.0	Pass
14	0.1755	0.1755	100.0	Pass
15	0.1578	0.1578	100.0	Pass
16	0.1436	0.1436	100.0	Pass
17	0.2801	0.2801	100.0	Pass
18	0.5249	0.5249	100.0	Pass
19	0.1413	0.1413	100.0	Pass
20	0.4106	0.4106	100.0	Pass
21	0.3686	0.3686	100.0	Pass
22	0.7239	0.7239	100.0	Pass
23	0.6640	0.6640	100.0	Pass
24	0.5529	0.5529	100.0	Pass
25	0.2210	0.2210	100.0	Pass
26	0.6912	0.6912	100.0	Pass
27	0.6971	0.6971	100.0	Pass
28	0.6870	0.6870	100.0	Pass
29	0.4404	0.4404	100.0	Pass
30	0.7161	0.7161	100.0	Pass
31	1.1227	1.1227	100.0	Pass
Sep1	0.4115	0.4115	100.0	Pass
2	0.4303	0.4303	100.0	Pass
3	0.4788	0.4788	100.0	Pass
4	0.6091	0.6091	100.0	Pass
5	0.5150	0.5150	100.0	Pass
6	0.3581	0.3581	100.0	Pass
7	0.7021	0.7021	100.0	Pass
8	0.4388	0.4388	100.0	Pass
9	1.1462	1.1462	100.0	Pass
10	0.2536	0.2536	100.0	Pass
11	0.2261	0.2261	100.0	Pass
12	0.6160	0.6160	100.0	Pass
13	1.1212	1.1212	100.0	Pass
14	0.7025	0.7025	100.0	Pass
15	1.0825	1.0825	100.0	Pass
16	1.1208	1.1208	100.0	Pass
17	1.2336	1.2336	100.0	Pass
18	1.1025	1.1025	100.0	Pass
19	1.1723	1.1723	100.0	Pass
20	0.8341	0.8341	100.0	Pass
21	1.1688	1.1688	100.0	Pass
22	0.9299	0.9299	100.0	Pass
23	0.7459	0.7459	100.0	Pass
24	0.5321	0.5321	100.0	Pass
25	0.5806	0.5806	100.0	Pass
26	0.5819	0.5819	100.0	Pass
27	0.7884	0.7884	100.0	Pass
28	0.6941	0.6941	100.0	Pass
29	0.9208	0.9208	100.0	Pass
30	0.6487	0.6487	100.0	Pass
Oct1	0.4608	0.4608	100.0	Pass
2	1.1919	1.1919	100.0	Pass
3	1.0525	1.0525	100.0	Pass
4	1.2842	1.2842	100.0	Pass
5	1.3613	1.3613	100.0	Pass

6	1.4986	1.4986	100.0	Pass
7	1.9157	1.9157	100.0	Pass
8	1.5362	1.5362	100.0	Pass
9	1.1843	1.1843	100.0	Pass
10	0.9691	0.9691	100.0	Pass
11	1.8867	1.8867	100.0	Pass
12	1.2412	1.2412	100.0	Pass
13	1.7601	1.7601	100.0	Pass
14	0.9659	0.9659	100.0	Pass
15	1.1741	1.1741	100.0	Pass
16	1.5705	1.5705	100.0	Pass
17	1.4353	1.4353	100.0	Pass
18	2.3138	2.3138	100.0	Pass
19	2.8325	2.8325	100.0	Pass
20	2.4296	2.4296	100.0	Pass
21	2.9387	2.9387	100.0	Pass
22	1.6707	1.6707	100.0	Pass
23	2.8570	2.8570	100.0	Pass
24	2.4856	2.4856	100.0	Pass
25	2.2091	2.2091	100.0	Pass
26	2.7064	2.7064	100.0	Pass
27	2.2671	2.2671	100.0	Pass
28	2.1149	2.1149	100.0	Pass
29	1.7764	1.7764	100.0	Pass
30	2.6959	2.6959	100.0	Pass
31	2.2272	2.2272	100.0	Pass
Nov1	2.8302	2.8302	100.0	Pass
2	3.4572	3.4572	100.0	Pass
3	2.6148	2.6148	100.0	Pass
4	2.6820	2.6820	100.0	Pass
5	2.9721	2.9721	100.0	Pass
6	2.4450	2.4450	100.0	Pass
7	2.2199	2.2199	100.0	Pass
8	2.9266	2.9266	100.0	Pass
9	3.4501	3.4501	100.0	Pass
10	2.9191	2.9191	100.0	Pass
11	3.2803	3.2803	100.0	Pass
12	3.0311	3.0311	100.0	Pass
13	2.2140	2.2140	100.0	Pass
14	2.6634	2.6634	100.0	Pass
15	2.9889	2.9889	100.0	Pass
16	3.1336	3.1336	100.0	Pass
17	2.8353	2.8353	100.0	Pass
18	4.2266	4.2266	100.0	Pass
19	3.7190	3.7190	100.0	Pass
20	2.3956	2.3956	100.0	Pass
21	3.9112	3.9112	100.0	Pass
22	4.6604	4.6604	100.0	Pass
23	3.4467	3.4467	100.0	Pass
24	3.9943	3.9943	100.0	Pass
25	2.5515	2.5515	100.0	Pass
26	2.0698	2.0698	100.0	Pass
27	2.6082	2.6082	100.0	Pass
28	2.4887	2.4887	100.0	Pass
29	4.1974	4.1974	100.0	Pass
30	3.2677	3.2677	100.0	Pass
Dec1	3.6421	3.6421	100.0	Pass

2	3.4916	3.4916	100.0	Pass
3	2.1856	2.1856	100.0	Pass
4	2.4880	2.4880	100.0	Pass
5	2.1079	2.1079	100.0	Pass
6	1.8477	1.8477	100.0	Pass
7	2.7275	2.7275	100.0	Pass
8	3.4299	3.4299	100.0	Pass
9	3.3541	3.3541	100.0	Pass
10	3.6140	3.6140	100.0	Pass
11	2.5941	2.5941	100.0	Pass
12	2.8500	2.8500	100.0	Pass
13	4.3182	4.3182	100.0	Pass
14	2.8812	2.8812	100.0	Pass
15	3.8829	3.8829	100.0	Pass
16	2.5210	2.5210	100.0	Pass
17	3.0959	3.0959	100.0	Pass
18	2.5195	2.5195	100.0	Pass
19	3.0165	3.0165	100.0	Pass
20	2.9164	2.9164	100.0	Pass
21	3.2121	3.2121	100.0	Pass
22	3.1673	3.1673	100.0	Pass
23	3.4594	3.4594	100.0	Pass
24	3.8547	3.8547	100.0	Pass
25	3.2711	3.2711	100.0	Pass
26	2.9783	2.9783	100.0	Pass
27	1.9648	1.9648	100.0	Pass
28	3.2409	3.2409	100.0	Pass
29	2.0591	2.0591	100.0	Pass
30	2.1988	2.1988	100.0	Pass
31	3.7895	3.7895	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #5
Total Pervious Area:0.047
Total Impervious Area:1.032

Mitigated Landuse Totals for POC #5
Total Pervious Area:0.047
Total Impervious Area:1.032

Flow Frequency Return Periods for Predeveloped. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.773589
5 year	0.914501
10 year	0.992415
25 year	1.078273
50 year	1.135068
100 year	1.186925

Flow Frequency Return Periods for Mitigated. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.773589
5 year	0.914501
10 year	0.992415
25 year	1.078273
50 year	1.135068
100 year	1.186925

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #5

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.802	0.802
1957	1.014	1.014
1958	0.792	0.792
1959	0.768	0.768
1960	0.795	0.795
1961	0.676	0.676
1962	1.049	1.049
1963	0.968	0.968
1964	0.852	0.852
1965	0.840	0.840
1966	0.815	0.815
1967	0.532	0.532
1968	0.792	0.792
1969	0.746	0.746
1970	0.730	0.730
1971	1.075	1.075
1972	0.903	0.903
1973	0.863	0.863
1974	0.810	0.810
1975	0.727	0.727
1976	0.885	0.885
1977	0.650	0.650
1978	1.131	1.131
1979	0.706	0.706
1980	0.657	0.657
1981	0.841	0.841
1982	0.968	0.968
1983	0.763	0.763
1984	0.698	0.698
1985	0.553	0.553
1986	0.848	0.848
1987	0.594	0.594
1988	0.895	0.895
1989	0.762	0.762
1990	0.971	0.971
1991	0.669	0.669
1992	0.521	0.521
1993	0.585	0.585
1994	0.719	0.719
1995	0.730	0.730
1996	0.883	0.883
1997	0.842	0.842
1998	0.538	0.538
1999	0.666	0.666

2000	0.619	0.619
2001	0.614	0.614
2002	0.963	0.963
2003	1.021	1.021
2004	0.957	0.957
2005	0.762	0.762
2006	0.775	0.775
2007	0.908	0.908
2008	0.493	0.493
2009	0.468	0.468

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	1.1309	1.1309
2	1.0750	1.0750
3	1.0488	1.0488
4	1.0213	1.0213
5	1.0136	1.0136
6	0.9711	0.9711
7	0.9685	0.9685
8	0.9677	0.9677
9	0.9634	0.9634
10	0.9565	0.9565
11	0.9084	0.9084
12	0.9028	0.9028
13	0.8955	0.8955
14	0.8849	0.8849
15	0.8826	0.8826
16	0.8635	0.8635
17	0.8520	0.8520
18	0.8482	0.8482
19	0.8416	0.8416
20	0.8408	0.8408
21	0.8402	0.8402
22	0.8146	0.8146
23	0.8102	0.8102
24	0.8015	0.8015
25	0.7950	0.7950
26	0.7925	0.7925
27	0.7915	0.7915
28	0.7751	0.7751
29	0.7679	0.7679
30	0.7631	0.7631
31	0.7624	0.7624
32	0.7621	0.7621
33	0.7462	0.7462
34	0.7302	0.7302
35	0.7302	0.7302
36	0.7268	0.7268
37	0.7192	0.7192
38	0.7064	0.7064
39	0.6983	0.6983
40	0.6755	0.6755
41	0.6692	0.6692
42	0.6655	0.6655

43	0.6569	0.6569
44	0.6501	0.6501
45	0.6191	0.6191
46	0.6141	0.6141
47	0.5943	0.5943
48	0.5851	0.5851
49	0.5526	0.5526
50	0.5384	0.5384
51	0.5322	0.5322
52	0.5209	0.5209
53	0.4928	0.4928
54	0.4685	0.4685

Stream Protection Duration

POC #5

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3868	1180	1180	100	Pass
0.3944	1099	1099	100	Pass
0.4019	1033	1033	100	Pass
0.4095	967	967	100	Pass
0.4170	891	891	100	Pass
0.4246	838	838	100	Pass
0.4321	767	767	100	Pass
0.4397	709	709	100	Pass
0.4473	659	659	100	Pass
0.4548	606	606	100	Pass
0.4624	562	562	100	Pass
0.4699	524	524	100	Pass
0.4775	486	486	100	Pass
0.4851	446	446	100	Pass
0.4926	418	418	100	Pass
0.5002	390	390	100	Pass
0.5077	359	359	100	Pass
0.5153	334	334	100	Pass
0.5228	315	315	100	Pass
0.5304	298	298	100	Pass
0.5380	283	283	100	Pass
0.5455	262	262	100	Pass
0.5531	247	247	100	Pass
0.5606	234	234	100	Pass
0.5682	220	220	100	Pass
0.5758	214	214	100	Pass
0.5833	200	200	100	Pass
0.5909	190	190	100	Pass
0.5984	183	183	100	Pass
0.6060	173	173	100	Pass
0.6135	167	167	100	Pass
0.6211	154	154	100	Pass
0.6287	147	147	100	Pass
0.6362	137	137	100	Pass
0.6438	128	128	100	Pass
0.6513	120	120	100	Pass

0.6589	110	110	100	Pass
0.6665	107	107	100	Pass
0.6740	104	104	100	Pass
0.6816	97	97	100	Pass
0.6891	95	95	100	Pass
0.6967	92	92	100	Pass
0.7042	81	81	100	Pass
0.7118	77	77	100	Pass
0.7194	75	75	100	Pass
0.7269	71	71	100	Pass
0.7345	64	64	100	Pass
0.7420	62	62	100	Pass
0.7496	59	59	100	Pass
0.7572	56	56	100	Pass
0.7647	52	52	100	Pass
0.7723	49	49	100	Pass
0.7798	48	48	100	Pass
0.7874	47	47	100	Pass
0.7949	42	42	100	Pass
0.8025	39	39	100	Pass
0.8101	36	36	100	Pass
0.8176	34	34	100	Pass
0.8252	34	34	100	Pass
0.8327	33	33	100	Pass
0.8403	32	32	100	Pass
0.8479	28	28	100	Pass
0.8554	26	26	100	Pass
0.8630	25	25	100	Pass
0.8705	24	24	100	Pass
0.8781	24	24	100	Pass
0.8856	22	22	100	Pass
0.8932	20	20	100	Pass
0.9008	18	18	100	Pass
0.9083	17	17	100	Pass
0.9159	14	14	100	Pass
0.9234	14	14	100	Pass
0.9310	13	13	100	Pass
0.9386	12	12	100	Pass
0.9461	12	12	100	Pass
0.9537	12	12	100	Pass
0.9612	11	11	100	Pass
0.9688	9	9	100	Pass
0.9763	6	6	100	Pass
0.9839	6	6	100	Pass
0.9915	6	6	100	Pass
0.9990	6	6	100	Pass
1.0066	6	6	100	Pass
1.0141	4	4	100	Pass
1.0217	4	4	100	Pass
1.0293	3	3	100	Pass
1.0368	3	3	100	Pass
1.0444	3	3	100	Pass
1.0519	2	2	100	Pass
1.0595	2	2	100	Pass
1.0670	2	2	100	Pass
1.0746	2	2	100	Pass
1.0822	1	1	100	Pass

1.0897	1	1	100	Pass
1.0973	1	1	100	Pass
1.1048	1	1	100	Pass
1.1124	1	1	100	Pass
1.1200	1	1	100	Pass
1.1275	1	1	100	Pass
1.1351	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #5

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 5

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	47.1477	47.1477	100.0	Pass
Feb	36.0281	36.0281	100.0	Pass
Mar	32.1391	32.1391	100.0	Pass
Apr	18.2316	18.2316	100.0	Pass
May	10.1920	10.1920	100.0	Pass
Jun	6.8871	6.8871	100.0	Pass
Jul	3.4621	3.4621	100.0	Pass
Aug	5.1940	5.1940	100.0	Pass
Sep	11.4919	11.4919	100.0	Pass
Oct	27.3303	27.3303	100.0	Pass
Nov	45.1879	45.1879	100.0	Pass
Dec	45.4483	45.4483	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.5170	1.5170	100.0	Pass
2	1.1711	1.1711	100.0	Pass
3	1.5298	1.5298	100.0	Pass
4	1.8217	1.8217	100.0	Pass
5	1.2709	1.2709	100.0	Pass
6	1.9968	1.9968	100.0	Pass
7	1.4862	1.4862	100.0	Pass
8	1.5081	1.5081	100.0	Pass
9	1.6328	1.6328	100.0	Pass
10	1.5636	1.5636	100.0	Pass
11	1.9394	1.9394	100.0	Pass
12	1.4794	1.4794	100.0	Pass
13	1.9177	1.9177	100.0	Pass
14	1.8941	1.8941	100.0	Pass
15	1.7115	1.7115	100.0	Pass
16	1.3691	1.3691	100.0	Pass
17	1.3244	1.3244	100.0	Pass
18	1.1694	1.1694	100.0	Pass
19	1.1876	1.1876	100.0	Pass
20	0.7482	0.7482	100.0	Pass
21	1.5831	1.5831	100.0	Pass

22	1.8672	1.8672	100.0	Pass
23	2.0670	2.0670	100.0	Pass
24	1.3488	1.3488	100.0	Pass
25	1.1443	1.1443	100.0	Pass
26	1.0345	1.0345	100.0	Pass
27	1.3662	1.3662	100.0	Pass
28	1.7481	1.7481	100.0	Pass
29	1.2914	1.2914	100.0	Pass
30	1.5689	1.5689	100.0	Pass
31	0.8874	0.8874	100.0	Pass
Feb1	1.0517	1.0517	100.0	Pass
2	0.9713	0.9713	100.0	Pass
3	0.8684	0.8684	100.0	Pass
4	0.8041	0.8041	100.0	Pass
5	1.5541	1.5541	100.0	Pass
6	0.7159	0.7159	100.0	Pass
7	1.1213	1.1213	100.0	Pass
8	0.8276	0.8276	100.0	Pass
9	1.0323	1.0323	100.0	Pass
10	1.3876	1.3876	100.0	Pass
11	1.8095	1.8095	100.0	Pass
12	1.3685	1.3685	100.0	Pass
13	1.4970	1.4970	100.0	Pass
14	2.1444	2.1444	100.0	Pass
15	1.4803	1.4803	100.0	Pass
16	2.0122	2.0122	100.0	Pass
17	1.7337	1.7337	100.0	Pass
18	1.3227	1.3227	100.0	Pass
19	1.1593	1.1593	100.0	Pass
20	1.1306	1.1306	100.0	Pass
21	0.9273	0.9273	100.0	Pass
22	1.4069	1.4069	100.0	Pass
23	1.3233	1.3233	100.0	Pass
24	1.4601	1.4601	100.0	Pass
25	1.2872	1.2872	100.0	Pass
26	1.2568	1.2568	100.0	Pass
27	1.1000	1.1000	100.0	Pass
28	1.5080	1.5080	100.0	Pass
29	1.0693	1.0693	100.0	Pass
Mar1	1.0632	1.0632	100.0	Pass
2	0.8568	0.8568	100.0	Pass
3	1.2547	1.2547	100.0	Pass
4	1.3050	1.3050	100.0	Pass
5	1.0047	1.0047	100.0	Pass
6	1.2858	1.2858	100.0	Pass
7	1.2808	1.2808	100.0	Pass
8	1.2204	1.2204	100.0	Pass
9	1.2248	1.2248	100.0	Pass
10	1.0492	1.0492	100.0	Pass
11	1.1542	1.1542	100.0	Pass
12	1.0206	1.0206	100.0	Pass
13	1.2539	1.2539	100.0	Pass
14	0.9702	0.9702	100.0	Pass
15	0.7860	0.7860	100.0	Pass
16	0.7707	0.7707	100.0	Pass
17	1.0610	1.0610	100.0	Pass
18	0.6231	0.6231	100.0	Pass

19	0.9880	0.9880	100.0	Pass
20	0.7774	0.7774	100.0	Pass
21	1.3589	1.3589	100.0	Pass
22	1.5132	1.5132	100.0	Pass
23	1.1995	1.1995	100.0	Pass
24	0.7316	0.7316	100.0	Pass
25	1.2211	1.2211	100.0	Pass
26	0.8465	0.8465	100.0	Pass
27	0.8364	0.8364	100.0	Pass
28	0.9316	0.9316	100.0	Pass
29	0.8595	0.8595	100.0	Pass
30	0.6248	0.6248	100.0	Pass
31	0.5062	0.5062	100.0	Pass
Apr1	0.5553	0.5553	100.0	Pass
2	0.6349	0.6349	100.0	Pass
3	0.9037	0.9037	100.0	Pass
4	0.7910	0.7910	100.0	Pass
5	0.8372	0.8372	100.0	Pass
6	0.4270	0.4270	100.0	Pass
7	0.7747	0.7747	100.0	Pass
8	0.7606	0.7606	100.0	Pass
9	0.6835	0.6835	100.0	Pass
10	0.6591	0.6591	100.0	Pass
11	0.9528	0.9528	100.0	Pass
12	0.7858	0.7858	100.0	Pass
13	0.8325	0.8325	100.0	Pass
14	0.6937	0.6937	100.0	Pass
15	0.7419	0.7419	100.0	Pass
16	0.3911	0.3911	100.0	Pass
17	0.5818	0.5818	100.0	Pass
18	0.6749	0.6749	100.0	Pass
19	0.3329	0.3329	100.0	Pass
20	0.3430	0.3430	100.0	Pass
21	0.6100	0.6100	100.0	Pass
22	0.5020	0.5020	100.0	Pass
23	0.4274	0.4274	100.0	Pass
24	0.3403	0.3403	100.0	Pass
25	0.4278	0.4278	100.0	Pass
26	0.7138	0.7138	100.0	Pass
27	0.5392	0.5392	100.0	Pass
28	0.5591	0.5591	100.0	Pass
29	0.2509	0.2509	100.0	Pass
30	0.3741	0.3741	100.0	Pass
May1	0.6000	0.6000	100.0	Pass
2	0.4093	0.4093	100.0	Pass
3	0.4588	0.4588	100.0	Pass
4	0.3447	0.3447	100.0	Pass
5	0.3386	0.3386	100.0	Pass
6	0.2886	0.2886	100.0	Pass
7	0.3909	0.3909	100.0	Pass
8	0.2281	0.2281	100.0	Pass
9	0.3392	0.3392	100.0	Pass
10	0.2720	0.2720	100.0	Pass
11	0.2579	0.2579	100.0	Pass
12	0.3672	0.3672	100.0	Pass
13	0.3938	0.3938	100.0	Pass
14	0.3836	0.3836	100.0	Pass

15	0.2415	0.2415	100.0	Pass
16	0.3367	0.3367	100.0	Pass
17	0.2654	0.2654	100.0	Pass
18	0.4555	0.4555	100.0	Pass
19	0.2249	0.2249	100.0	Pass
20	0.2292	0.2292	100.0	Pass
21	0.2369	0.2369	100.0	Pass
22	0.2921	0.2921	100.0	Pass
23	0.2503	0.2503	100.0	Pass
24	0.2638	0.2638	100.0	Pass
25	0.2168	0.2168	100.0	Pass
26	0.3926	0.3926	100.0	Pass
27	0.2975	0.2975	100.0	Pass
28	0.3252	0.3252	100.0	Pass
29	0.4420	0.4420	100.0	Pass
30	0.2761	0.2761	100.0	Pass
31	0.3035	0.3035	100.0	Pass
Jun1	0.2220	0.2220	100.0	Pass
2	0.3973	0.3973	100.0	Pass
3	0.3691	0.3691	100.0	Pass
4	0.2651	0.2651	100.0	Pass
5	0.4494	0.4494	100.0	Pass
6	0.1502	0.1502	100.0	Pass
7	0.2492	0.2492	100.0	Pass
8	0.3664	0.3664	100.0	Pass
9	0.2707	0.2707	100.0	Pass
10	0.2632	0.2632	100.0	Pass
11	0.1856	0.1856	100.0	Pass
12	0.2378	0.2378	100.0	Pass
13	0.3769	0.3769	100.0	Pass
14	0.1415	0.1415	100.0	Pass
15	0.3056	0.3056	100.0	Pass
16	0.1213	0.1213	100.0	Pass
17	0.1834	0.1834	100.0	Pass
18	0.1179	0.1179	100.0	Pass
19	0.1544	0.1544	100.0	Pass
20	0.1747	0.1747	100.0	Pass
21	0.1623	0.1623	100.0	Pass
22	0.0884	0.0884	100.0	Pass
23	0.4886	0.4886	100.0	Pass
24	0.1073	0.1073	100.0	Pass
25	0.2101	0.2101	100.0	Pass
26	0.1255	0.1255	100.0	Pass
27	0.1181	0.1181	100.0	Pass
28	0.1224	0.1224	100.0	Pass
29	0.1602	0.1602	100.0	Pass
30	0.3367	0.3367	100.0	Pass
Jul1	0.0774	0.0774	100.0	Pass
2	0.0717	0.0717	100.0	Pass
3	0.0825	0.0825	100.0	Pass
4	0.2058	0.2058	100.0	Pass
5	0.1486	0.1486	100.0	Pass
6	0.1131	0.1131	100.0	Pass
7	0.2126	0.2126	100.0	Pass
8	0.1140	0.1140	100.0	Pass
9	0.2524	0.2524	100.0	Pass
10	0.1584	0.1584	100.0	Pass

11	0.3177	0.3177	100.0	Pass
12	0.1385	0.1385	100.0	Pass
13	0.1120	0.1120	100.0	Pass
14	0.1847	0.1847	100.0	Pass
15	0.0732	0.0732	100.0	Pass
16	0.0462	0.0462	100.0	Pass
17	0.1622	0.1622	100.0	Pass
18	0.0486	0.0486	100.0	Pass
19	0.0696	0.0696	100.0	Pass
20	0.1216	0.1216	100.0	Pass
21	0.0924	0.0924	100.0	Pass
22	0.0038	0.0038	100.0	Pass
23	0.0269	0.0269	100.0	Pass
24	0.0316	0.0316	100.0	Pass
25	0.0740	0.0740	100.0	Pass
26	0.0327	0.0327	100.0	Pass
27	0.0463	0.0463	100.0	Pass
28	0.0389	0.0389	100.0	Pass
29	0.0247	0.0247	100.0	Pass
30	0.0437	0.0437	100.0	Pass
31	0.0486	0.0486	100.0	Pass
Aug1	0.1980	0.1980	100.0	Pass
2	0.0656	0.0656	100.0	Pass
3	0.0254	0.0254	100.0	Pass
4	0.0254	0.0254	100.0	Pass
5	0.2227	0.2227	100.0	Pass
6	0.1487	0.1487	100.0	Pass
7	0.0511	0.0511	100.0	Pass
8	0.0545	0.0545	100.0	Pass
9	0.0042	0.0042	100.0	Pass
10	0.0304	0.0304	100.0	Pass
11	0.1443	0.1443	100.0	Pass
12	0.1255	0.1255	100.0	Pass
13	0.1542	0.1542	100.0	Pass
14	0.0896	0.0896	100.0	Pass
15	0.0799	0.0799	100.0	Pass
16	0.0738	0.0738	100.0	Pass
17	0.1466	0.1466	100.0	Pass
18	0.2751	0.2751	100.0	Pass
19	0.0708	0.0708	100.0	Pass
20	0.2142	0.2142	100.0	Pass
21	0.1900	0.1900	100.0	Pass
22	0.3752	0.3752	100.0	Pass
23	0.3402	0.3402	100.0	Pass
24	0.2770	0.2770	100.0	Pass
25	0.1068	0.1068	100.0	Pass
26	0.3570	0.3570	100.0	Pass
27	0.3572	0.3572	100.0	Pass
28	0.3496	0.3496	100.0	Pass
29	0.2228	0.2228	100.0	Pass
30	0.3696	0.3696	100.0	Pass
31	0.5769	0.5769	100.0	Pass
Sep1	0.2005	0.2005	100.0	Pass
2	0.2148	0.2148	100.0	Pass
3	0.2425	0.2425	100.0	Pass
4	0.3122	0.3122	100.0	Pass
5	0.2625	0.2625	100.0	Pass

6	0.1813	0.1813	100.0	Pass
7	0.3638	0.3638	100.0	Pass
8	0.2235	0.2235	100.0	Pass
9	0.5950	0.5950	100.0	Pass
10	0.1250	0.1250	100.0	Pass
11	0.1141	0.1141	100.0	Pass
12	0.3192	0.3192	100.0	Pass
13	0.5792	0.5792	100.0	Pass
14	0.3559	0.3559	100.0	Pass
15	0.5553	0.5553	100.0	Pass
16	0.5677	0.5677	100.0	Pass
17	0.6295	0.6295	100.0	Pass
18	0.5607	0.5607	100.0	Pass
19	0.5932	0.5932	100.0	Pass
20	0.4143	0.4143	100.0	Pass
21	0.5870	0.5870	100.0	Pass
22	0.4651	0.4651	100.0	Pass
23	0.3734	0.3734	100.0	Pass
24	0.2656	0.2656	100.0	Pass
25	0.2950	0.2950	100.0	Pass
26	0.2958	0.2958	100.0	Pass
27	0.3997	0.3997	100.0	Pass
28	0.3535	0.3535	100.0	Pass
29	0.4712	0.4712	100.0	Pass
30	0.3261	0.3261	100.0	Pass
Oct1	0.2297	0.2297	100.0	Pass
2	0.6154	0.6154	100.0	Pass
3	0.5387	0.5387	100.0	Pass
4	0.6546	0.6546	100.0	Pass
5	0.6933	0.6933	100.0	Pass
6	0.7640	0.7640	100.0	Pass
7	0.9745	0.9745	100.0	Pass
8	0.7727	0.7727	100.0	Pass
9	0.5912	0.5912	100.0	Pass
10	0.4831	0.4831	100.0	Pass
11	0.9645	0.9645	100.0	Pass
12	0.6224	0.6224	100.0	Pass
13	0.8960	0.8960	100.0	Pass
14	0.4760	0.4760	100.0	Pass
15	0.5893	0.5893	100.0	Pass
16	0.7917	0.7917	100.0	Pass
17	0.7209	0.7209	100.0	Pass
18	1.1692	1.1692	100.0	Pass
19	1.4262	1.4262	100.0	Pass
20	1.2190	1.2190	100.0	Pass
21	1.4764	1.4764	100.0	Pass
22	0.8147	0.8147	100.0	Pass
23	1.4345	1.4345	100.0	Pass
24	1.2393	1.2393	100.0	Pass
25	1.0967	1.0967	100.0	Pass
26	1.3545	1.3545	100.0	Pass
27	1.1219	1.1219	100.0	Pass
28	1.0483	1.0483	100.0	Pass
29	0.8747	0.8747	100.0	Pass
30	1.3552	1.3552	100.0	Pass
31	1.1037	1.1037	100.0	Pass
Nov1	1.4116	1.4116	100.0	Pass

2	1.7406	1.7406	100.0	Pass
3	1.2866	1.2866	100.0	Pass
4	1.3327	1.3327	100.0	Pass
5	1.4781	1.4781	100.0	Pass
6	1.2030	1.2030	100.0	Pass
7	1.0929	1.0929	100.0	Pass
8	1.4650	1.4650	100.0	Pass
9	1.7249	1.7249	100.0	Pass
10	1.4457	1.4457	100.0	Pass
11	1.6315	1.6315	100.0	Pass
12	1.5063	1.5063	100.0	Pass
13	1.0775	1.0775	100.0	Pass
14	1.3220	1.3220	100.0	Pass
15	1.4868	1.4868	100.0	Pass
16	1.5604	1.5604	100.0	Pass
17	1.4025	1.4025	100.0	Pass
18	2.1135	2.1135	100.0	Pass
19	1.8406	1.8406	100.0	Pass
20	1.1607	1.1607	100.0	Pass
21	1.9471	1.9471	100.0	Pass
22	2.3348	2.3348	100.0	Pass
23	1.6904	1.6904	100.0	Pass
24	1.9760	1.9760	100.0	Pass
25	1.2315	1.2315	100.0	Pass
26	0.9993	0.9993	100.0	Pass
27	1.2914	1.2914	100.0	Pass
28	1.2313	1.2313	100.0	Pass
29	2.1051	2.1051	100.0	Pass
30	1.6091	1.6091	100.0	Pass
Dec1	1.8056	1.8056	100.0	Pass
2	1.7199	1.7199	100.0	Pass
3	1.0553	1.0553	100.0	Pass
4	1.2246	1.2246	100.0	Pass
5	1.0278	1.0278	100.0	Pass
6	0.9068	0.9068	100.0	Pass
7	1.3629	1.3629	100.0	Pass
8	1.7152	1.7152	100.0	Pass
9	1.6630	1.6630	100.0	Pass
10	1.7874	1.7874	100.0	Pass
11	1.2687	1.2687	100.0	Pass
12	1.4064	1.4064	100.0	Pass
13	2.1629	2.1629	100.0	Pass
14	1.4026	1.4026	100.0	Pass
15	1.9313	1.9313	100.0	Pass
16	1.2209	1.2209	100.0	Pass
17	1.5296	1.5296	100.0	Pass
18	1.2344	1.2344	100.0	Pass
19	1.4998	1.4998	100.0	Pass
20	1.4381	1.4381	100.0	Pass
21	1.5838	1.5838	100.0	Pass
22	1.5656	1.5656	100.0	Pass
23	1.7142	1.7142	100.0	Pass
24	1.9178	1.9178	100.0	Pass
25	1.6038	1.6038	100.0	Pass
26	1.4562	1.4562	100.0	Pass
27	0.9487	0.9487	100.0	Pass
28	1.6132	1.6132	100.0	Pass

29	0.9968	0.9968	100.0	Pass
30	1.0806	1.0806	100.0	Pass
31	1.8961	1.8961	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #6

Total Pervious Area:0.013
 Total Impervious Area:0.36

Mitigated Landuse Totals for POC #6

Total Pervious Area:0.013
 Total Impervious Area:0.36

Flow Frequency Return Periods for Predeveloped. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.268538
5 year	0.31721
10 year	0.344107
25 year	0.373736
50 year	0.393329
100 year	0.411214

Flow Frequency Return Periods for Mitigated. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.268538
5 year	0.31721
10 year	0.344107
25 year	0.373736
50 year	0.393329
100 year	0.411214

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #6

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.278	0.278
1957	0.352	0.352
1958	0.275	0.275
1959	0.266	0.266
1960	0.276	0.276
1961	0.235	0.235
1962	0.363	0.363
1963	0.335	0.335
1964	0.296	0.296
1965	0.291	0.291
1966	0.282	0.282
1967	0.185	0.185
1968	0.275	0.275
1969	0.259	0.259

1970	0.254	0.254
1971	0.373	0.373
1972	0.313	0.313
1973	0.300	0.300
1974	0.281	0.281
1975	0.252	0.252
1976	0.307	0.307
1977	0.226	0.226
1978	0.392	0.392
1979	0.245	0.245
1980	0.228	0.228
1981	0.292	0.292
1982	0.336	0.336
1983	0.265	0.265
1984	0.242	0.242
1985	0.192	0.192
1986	0.294	0.294
1987	0.206	0.206
1988	0.311	0.311
1989	0.264	0.264
1990	0.337	0.337
1991	0.233	0.233
1992	0.181	0.181
1993	0.203	0.203
1994	0.250	0.250
1995	0.254	0.254
1996	0.307	0.307
1997	0.292	0.292
1998	0.188	0.188
1999	0.231	0.231
2000	0.216	0.216
2001	0.214	0.214
2002	0.336	0.336
2003	0.354	0.354
2004	0.332	0.332
2005	0.264	0.264
2006	0.269	0.269
2007	0.315	0.315
2008	0.171	0.171
2009	0.163	0.163

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	0.3924	0.3924
2	0.3726	0.3726
3	0.3634	0.3634
4	0.3539	0.3539
5	0.3516	0.3516
6	0.3366	0.3366
7	0.3361	0.3361
8	0.3358	0.3358
9	0.3354	0.3354
10	0.3316	0.3316
11	0.3149	0.3149
12	0.3128	0.3128

13	0.3106	0.3106
14	0.3071	0.3071
15	0.3068	0.3068
16	0.2997	0.2997
17	0.2957	0.2957
18	0.2942	0.2942
19	0.2922	0.2922
20	0.2918	0.2918
21	0.2914	0.2914
22	0.2823	0.2823
23	0.2808	0.2808
24	0.2777	0.2777
25	0.2755	0.2755
26	0.2749	0.2749
27	0.2748	0.2748
28	0.2688	0.2688
29	0.2662	0.2662
30	0.2648	0.2648
31	0.2645	0.2645
32	0.2645	0.2645
33	0.2586	0.2586
34	0.2542	0.2542
35	0.2538	0.2538
36	0.2521	0.2521
37	0.2496	0.2496
38	0.2450	0.2450
39	0.2422	0.2422
40	0.2349	0.2349
41	0.2330	0.2330
42	0.2311	0.2311
43	0.2280	0.2280
44	0.2257	0.2257
45	0.2158	0.2158
46	0.2136	0.2136
47	0.2062	0.2062
48	0.2034	0.2034
49	0.1922	0.1922
50	0.1878	0.1878
51	0.1849	0.1849
52	0.1813	0.1813
53	0.1713	0.1713
54	0.1629	0.1629

Stream Protection Duration

POC #6

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1343	1189	1189	100	Pass
0.1369	1130	1130	100	Pass
0.1395	1051	1051	100	Pass
0.1421	973	973	100	Pass
0.1447	912	912	100	Pass
0.1474	848	848	100	Pass

0.1500	792	792	100	Pass
0.1526	729	729	100	Pass
0.1552	667	667	100	Pass
0.1578	619	619	100	Pass
0.1604	570	570	100	Pass
0.1631	524	524	100	Pass
0.1657	501	501	100	Pass
0.1683	457	457	100	Pass
0.1709	423	423	100	Pass
0.1735	392	392	100	Pass
0.1761	361	361	100	Pass
0.1788	344	344	100	Pass
0.1814	319	319	100	Pass
0.1840	303	303	100	Pass
0.1866	284	284	100	Pass
0.1892	264	264	100	Pass
0.1918	254	254	100	Pass
0.1945	237	237	100	Pass
0.1971	221	221	100	Pass
0.1997	216	216	100	Pass
0.2023	201	201	100	Pass
0.2049	193	193	100	Pass
0.2075	186	186	100	Pass
0.2102	174	174	100	Pass
0.2128	168	168	100	Pass
0.2154	157	157	100	Pass
0.2180	147	147	100	Pass
0.2206	138	138	100	Pass
0.2232	129	129	100	Pass
0.2259	123	123	100	Pass
0.2285	113	113	100	Pass
0.2311	109	109	100	Pass
0.2337	105	105	100	Pass
0.2363	98	98	100	Pass
0.2389	96	96	100	Pass
0.2416	92	92	100	Pass
0.2442	82	82	100	Pass
0.2468	78	78	100	Pass
0.2494	75	75	100	Pass
0.2520	71	71	100	Pass
0.2546	68	68	100	Pass
0.2573	62	62	100	Pass
0.2599	61	61	100	Pass
0.2625	56	56	100	Pass
0.2651	52	52	100	Pass
0.2677	50	50	100	Pass
0.2703	48	48	100	Pass
0.2730	47	47	100	Pass
0.2756	42	42	100	Pass
0.2782	39	39	100	Pass
0.2808	38	38	100	Pass
0.2834	34	34	100	Pass
0.2860	34	34	100	Pass
0.2887	33	33	100	Pass
0.2913	32	32	100	Pass
0.2939	29	29	100	Pass
0.2965	26	26	100	Pass

0.2991	25	25	100	Pass
0.3017	24	24	100	Pass
0.3044	24	24	100	Pass
0.3070	24	24	100	Pass
0.3096	21	21	100	Pass
0.3122	18	18	100	Pass
0.3148	17	17	100	Pass
0.3174	15	15	100	Pass
0.3201	14	14	100	Pass
0.3227	13	13	100	Pass
0.3253	12	12	100	Pass
0.3279	12	12	100	Pass
0.3305	12	12	100	Pass
0.3331	11	11	100	Pass
0.3358	11	11	100	Pass
0.3384	6	6	100	Pass
0.3410	6	6	100	Pass
0.3436	6	6	100	Pass
0.3462	6	6	100	Pass
0.3488	6	6	100	Pass
0.3515	5	5	100	Pass
0.3541	3	3	100	Pass
0.3567	3	3	100	Pass
0.3593	3	3	100	Pass
0.3619	3	3	100	Pass
0.3645	2	2	100	Pass
0.3672	2	2	100	Pass
0.3698	2	2	100	Pass
0.3724	2	2	100	Pass
0.3750	1	1	100	Pass
0.3776	1	1	100	Pass
0.3802	1	1	100	Pass
0.3829	1	1	100	Pass
0.3855	1	1	100	Pass
0.3881	1	1	100	Pass
0.3907	1	1	100	Pass
0.3933	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #6

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 6

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	16.3276	16.3276	100.0	Pass
Feb	12.4742	12.4742	100.0	Pass
Mar	11.1292	11.1292	100.0	Pass
Apr	6.3167	6.3167	100.0	Pass
May	3.5375	3.5375	100.0	Pass

Jun	2.3925	2.3925	100.0	Pass
Jul	1.2038	1.2038	100.0	Pass
Aug	1.8069	1.8069	100.0	Pass
Sep	3.9926	3.9926	100.0	Pass
Oct	9.4834	9.4834	100.0	Pass
Nov	15.6572	15.6572	100.0	Pass
Dec	15.7387	15.7387	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.5254	0.5254	100.0	Pass
2	0.4052	0.4052	100.0	Pass
3	0.5300	0.5300	100.0	Pass
4	0.6317	0.6317	100.0	Pass
5	0.4397	0.4397	100.0	Pass
6	0.6925	0.6925	100.0	Pass
7	0.5143	0.5143	100.0	Pass
8	0.5221	0.5221	100.0	Pass
9	0.5658	0.5658	100.0	Pass
10	0.5414	0.5414	100.0	Pass
11	0.6720	0.6720	100.0	Pass
12	0.5119	0.5119	100.0	Pass
13	0.6644	0.6644	100.0	Pass
14	0.6560	0.6560	100.0	Pass
15	0.5924	0.5924	100.0	Pass
16	0.4732	0.4732	100.0	Pass
17	0.4580	0.4580	100.0	Pass
18	0.4044	0.4044	100.0	Pass
19	0.4111	0.4111	100.0	Pass
20	0.2583	0.2583	100.0	Pass
21	0.5496	0.5496	100.0	Pass
22	0.6474	0.6474	100.0	Pass
23	0.7163	0.7163	100.0	Pass
24	0.4663	0.4663	100.0	Pass
25	0.3955	0.3955	100.0	Pass
26	0.3576	0.3576	100.0	Pass
27	0.4734	0.4734	100.0	Pass
28	0.6059	0.6059	100.0	Pass
29	0.4468	0.4468	100.0	Pass
30	0.5436	0.5436	100.0	Pass
31	0.3064	0.3064	100.0	Pass
Feb1	0.3639	0.3639	100.0	Pass
2	0.3363	0.3363	100.0	Pass
3	0.3005	0.3005	100.0	Pass
4	0.2783	0.2783	100.0	Pass
5	0.5392	0.5392	100.0	Pass
6	0.2471	0.2471	100.0	Pass
7	0.3886	0.3886	100.0	Pass
8	0.2864	0.2864	100.0	Pass
9	0.3579	0.3579	100.0	Pass
10	0.4813	0.4813	100.0	Pass
11	0.6274	0.6274	100.0	Pass
12	0.4736	0.4736	100.0	Pass
13	0.5186	0.5186	100.0	Pass
14	0.7438	0.7438	100.0	Pass
15	0.5120	0.5120	100.0	Pass
16	0.6974	0.6974	100.0	Pass
17	0.6001	0.6001	100.0	Pass

18	0.4570	0.4570	100.0	Pass
19	0.4007	0.4007	100.0	Pass
20	0.3910	0.3910	100.0	Pass
21	0.3207	0.3207	100.0	Pass
22	0.4876	0.4876	100.0	Pass
23	0.4583	0.4583	100.0	Pass
24	0.5058	0.5058	100.0	Pass
25	0.4455	0.4455	100.0	Pass
26	0.4349	0.4349	100.0	Pass
27	0.3805	0.3805	100.0	Pass
28	0.5221	0.5221	100.0	Pass
29	0.3701	0.3701	100.0	Pass
Mar1	0.3681	0.3681	100.0	Pass
2	0.2963	0.2963	100.0	Pass
3	0.4349	0.4349	100.0	Pass
4	0.4522	0.4522	100.0	Pass
5	0.3477	0.3477	100.0	Pass
6	0.4453	0.4453	100.0	Pass
7	0.4439	0.4439	100.0	Pass
8	0.4226	0.4226	100.0	Pass
9	0.4241	0.4241	100.0	Pass
10	0.3630	0.3630	100.0	Pass
11	0.3997	0.3997	100.0	Pass
12	0.3533	0.3533	100.0	Pass
13	0.4344	0.4344	100.0	Pass
14	0.3357	0.3357	100.0	Pass
15	0.2718	0.2718	100.0	Pass
16	0.2668	0.2668	100.0	Pass
17	0.3676	0.3676	100.0	Pass
18	0.2154	0.2154	100.0	Pass
19	0.3425	0.3425	100.0	Pass
20	0.2692	0.2692	100.0	Pass
21	0.4715	0.4715	100.0	Pass
22	0.5248	0.5248	100.0	Pass
23	0.4152	0.4152	100.0	Pass
24	0.2525	0.2525	100.0	Pass
25	0.4232	0.4232	100.0	Pass
26	0.2927	0.2927	100.0	Pass
27	0.2896	0.2896	100.0	Pass
28	0.3226	0.3226	100.0	Pass
29	0.2976	0.2976	100.0	Pass
30	0.2160	0.2160	100.0	Pass
31	0.1750	0.1750	100.0	Pass
Apr1	0.1923	0.1923	100.0	Pass
2	0.2200	0.2200	100.0	Pass
3	0.3137	0.3137	100.0	Pass
4	0.2742	0.2742	100.0	Pass
5	0.2899	0.2899	100.0	Pass
6	0.1474	0.1474	100.0	Pass
7	0.2687	0.2687	100.0	Pass
8	0.2635	0.2635	100.0	Pass
9	0.2369	0.2369	100.0	Pass
10	0.2282	0.2282	100.0	Pass
11	0.3307	0.3307	100.0	Pass
12	0.2723	0.2723	100.0	Pass
13	0.2886	0.2886	100.0	Pass
14	0.2402	0.2402	100.0	Pass

15	0.2569	0.2569	100.0	Pass
16	0.1350	0.1350	100.0	Pass
17	0.2017	0.2017	100.0	Pass
18	0.2340	0.2340	100.0	Pass
19	0.1149	0.1149	100.0	Pass
20	0.1187	0.1187	100.0	Pass
21	0.2118	0.2118	100.0	Pass
22	0.1741	0.1741	100.0	Pass
23	0.1480	0.1480	100.0	Pass
24	0.1178	0.1178	100.0	Pass
25	0.1484	0.1484	100.0	Pass
26	0.2477	0.2477	100.0	Pass
27	0.1868	0.1868	100.0	Pass
28	0.1937	0.1937	100.0	Pass
29	0.0866	0.0866	100.0	Pass
30	0.1297	0.1297	100.0	Pass
May1	0.2084	0.2084	100.0	Pass
2	0.1418	0.1418	100.0	Pass
3	0.1592	0.1592	100.0	Pass
4	0.1194	0.1194	100.0	Pass
5	0.1174	0.1174	100.0	Pass
6	0.1001	0.1001	100.0	Pass
7	0.1357	0.1357	100.0	Pass
8	0.0790	0.0790	100.0	Pass
9	0.1178	0.1178	100.0	Pass
10	0.0944	0.0944	100.0	Pass
11	0.0895	0.0895	100.0	Pass
12	0.1275	0.1275	100.0	Pass
13	0.1368	0.1368	100.0	Pass
14	0.1332	0.1332	100.0	Pass
15	0.0836	0.0836	100.0	Pass
16	0.1169	0.1169	100.0	Pass
17	0.0920	0.0920	100.0	Pass
18	0.1584	0.1584	100.0	Pass
19	0.0779	0.0779	100.0	Pass
20	0.0796	0.0796	100.0	Pass
21	0.0823	0.0823	100.0	Pass
22	0.1015	0.1015	100.0	Pass
23	0.0869	0.0869	100.0	Pass
24	0.0916	0.0916	100.0	Pass
25	0.0752	0.0752	100.0	Pass
26	0.1365	0.1365	100.0	Pass
27	0.1033	0.1033	100.0	Pass
28	0.1129	0.1129	100.0	Pass
29	0.1535	0.1535	100.0	Pass
30	0.0957	0.0957	100.0	Pass
31	0.1053	0.1053	100.0	Pass
Jun1	0.0769	0.0769	100.0	Pass
2	0.1381	0.1381	100.0	Pass
3	0.1283	0.1283	100.0	Pass
4	0.0920	0.0920	100.0	Pass
5	0.1562	0.1562	100.0	Pass
6	0.0519	0.0519	100.0	Pass
7	0.0865	0.0865	100.0	Pass
8	0.1273	0.1273	100.0	Pass
9	0.0940	0.0940	100.0	Pass
10	0.0914	0.0914	100.0	Pass

11	0.0644	0.0644	100.0	Pass
12	0.0827	0.0827	100.0	Pass
13	0.1311	0.1311	100.0	Pass
14	0.0490	0.0490	100.0	Pass
15	0.1062	0.1062	100.0	Pass
16	0.0420	0.0420	100.0	Pass
17	0.0637	0.0637	100.0	Pass
18	0.0408	0.0408	100.0	Pass
19	0.0537	0.0537	100.0	Pass
20	0.0608	0.0608	100.0	Pass
21	0.0564	0.0564	100.0	Pass
22	0.0307	0.0307	100.0	Pass
23	0.1702	0.1702	100.0	Pass
24	0.0371	0.0371	100.0	Pass
25	0.0730	0.0730	100.0	Pass
26	0.0436	0.0436	100.0	Pass
27	0.0411	0.0411	100.0	Pass
28	0.0426	0.0426	100.0	Pass
29	0.0558	0.0558	100.0	Pass
30	0.1172	0.1172	100.0	Pass
Jul1	0.0268	0.0268	100.0	Pass
2	0.0249	0.0249	100.0	Pass
3	0.0287	0.0287	100.0	Pass
4	0.0717	0.0717	100.0	Pass
5	0.0518	0.0518	100.0	Pass
6	0.0394	0.0394	100.0	Pass
7	0.0740	0.0740	100.0	Pass
8	0.0396	0.0396	100.0	Pass
9	0.0879	0.0879	100.0	Pass
10	0.0551	0.0551	100.0	Pass
11	0.1104	0.1104	100.0	Pass
12	0.0479	0.0479	100.0	Pass
13	0.0388	0.0388	100.0	Pass
14	0.0642	0.0642	100.0	Pass
15	0.0254	0.0254	100.0	Pass
16	0.0160	0.0160	100.0	Pass
17	0.0564	0.0564	100.0	Pass
18	0.0168	0.0168	100.0	Pass
19	0.0242	0.0242	100.0	Pass
20	0.0423	0.0423	100.0	Pass
21	0.0321	0.0321	100.0	Pass
22	0.0013	0.0013	100.0	Pass
23	0.0093	0.0093	100.0	Pass
24	0.0110	0.0110	100.0	Pass
25	0.0258	0.0258	100.0	Pass
26	0.0114	0.0114	100.0	Pass
27	0.0161	0.0161	100.0	Pass
28	0.0136	0.0136	100.0	Pass
29	0.0086	0.0086	100.0	Pass
30	0.0152	0.0152	100.0	Pass
31	0.0169	0.0169	100.0	Pass
Aug1	0.0690	0.0690	100.0	Pass
2	0.0228	0.0228	100.0	Pass
3	0.0088	0.0088	100.0	Pass
4	0.0088	0.0088	100.0	Pass
5	0.0776	0.0776	100.0	Pass
6	0.0517	0.0517	100.0	Pass

7	0.0177	0.0177	100.0	Pass
8	0.0189	0.0189	100.0	Pass
9	0.0014	0.0014	100.0	Pass
10	0.0106	0.0106	100.0	Pass
11	0.0503	0.0503	100.0	Pass
12	0.0437	0.0437	100.0	Pass
13	0.0537	0.0537	100.0	Pass
14	0.0312	0.0312	100.0	Pass
15	0.0277	0.0277	100.0	Pass
16	0.0257	0.0257	100.0	Pass
17	0.0511	0.0511	100.0	Pass
18	0.0959	0.0959	100.0	Pass
19	0.0246	0.0246	100.0	Pass
20	0.0746	0.0746	100.0	Pass
21	0.0661	0.0661	100.0	Pass
22	0.1306	0.1306	100.0	Pass
23	0.1183	0.1183	100.0	Pass
24	0.0961	0.0961	100.0	Pass
25	0.0369	0.0369	100.0	Pass
26	0.1242	0.1242	100.0	Pass
27	0.1242	0.1242	100.0	Pass
28	0.1215	0.1215	100.0	Pass
29	0.0774	0.0774	100.0	Pass
30	0.1286	0.1286	100.0	Pass
31	0.2007	0.2007	100.0	Pass
Sep1	0.0693	0.0693	100.0	Pass
2	0.0745	0.0745	100.0	Pass
3	0.0842	0.0842	100.0	Pass
4	0.1086	0.1086	100.0	Pass
5	0.0912	0.0912	100.0	Pass
6	0.0630	0.0630	100.0	Pass
7	0.1267	0.1267	100.0	Pass
8	0.0777	0.0777	100.0	Pass
9	0.2072	0.2072	100.0	Pass
10	0.0433	0.0433	100.0	Pass
11	0.0396	0.0396	100.0	Pass
12	0.1111	0.1111	100.0	Pass
13	0.2016	0.2016	100.0	Pass
14	0.1236	0.1236	100.0	Pass
15	0.1931	0.1931	100.0	Pass
16	0.1972	0.1972	100.0	Pass
17	0.2188	0.2188	100.0	Pass
18	0.1948	0.1948	100.0	Pass
19	0.2060	0.2060	100.0	Pass
20	0.1436	0.1436	100.0	Pass
21	0.2037	0.2037	100.0	Pass
22	0.1613	0.1613	100.0	Pass
23	0.1295	0.1295	100.0	Pass
24	0.0921	0.0921	100.0	Pass
25	0.1025	0.1025	100.0	Pass
26	0.1028	0.1028	100.0	Pass
27	0.1389	0.1389	100.0	Pass
28	0.1228	0.1228	100.0	Pass
29	0.1638	0.1638	100.0	Pass
30	0.1132	0.1132	100.0	Pass
Oct1	0.0796	0.0796	100.0	Pass
2	0.2142	0.2142	100.0	Pass

3	0.1873	0.1873	100.0	Pass
4	0.2275	0.2275	100.0	Pass
5	0.2410	0.2410	100.0	Pass
6	0.2655	0.2655	100.0	Pass
7	0.3386	0.3386	100.0	Pass
8	0.2681	0.2681	100.0	Pass
9	0.2050	0.2050	100.0	Pass
10	0.1675	0.1675	100.0	Pass
11	0.3353	0.3353	100.0	Pass
12	0.2159	0.2159	100.0	Pass
13	0.3114	0.3114	100.0	Pass
14	0.1648	0.1648	100.0	Pass
15	0.2045	0.2045	100.0	Pass
16	0.2748	0.2748	100.0	Pass
17	0.2502	0.2502	100.0	Pass
18	0.4060	0.4060	100.0	Pass
19	0.4950	0.4950	100.0	Pass
20	0.4229	0.4229	100.0	Pass
21	0.5123	0.5123	100.0	Pass
22	0.2818	0.2818	100.0	Pass
23	0.4978	0.4978	100.0	Pass
24	0.4297	0.4297	100.0	Pass
25	0.3801	0.3801	100.0	Pass
26	0.4698	0.4698	100.0	Pass
27	0.3887	0.3887	100.0	Pass
28	0.3632	0.3632	100.0	Pass
29	0.3029	0.3029	100.0	Pass
30	0.4703	0.4703	100.0	Pass
31	0.3824	0.3824	100.0	Pass
Nov1	0.4894	0.4894	100.0	Pass
2	0.6041	0.6041	100.0	Pass
3	0.4454	0.4454	100.0	Pass
4	0.4619	0.4619	100.0	Pass
5	0.5123	0.5123	100.0	Pass
6	0.4165	0.4165	100.0	Pass
7	0.3784	0.3784	100.0	Pass
8	0.5081	0.5081	100.0	Pass
9	0.5982	0.5982	100.0	Pass
10	0.5009	0.5009	100.0	Pass
11	0.5655	0.5655	100.0	Pass
12	0.5221	0.5221	100.0	Pass
13	0.3726	0.3726	100.0	Pass
14	0.4581	0.4581	100.0	Pass
15	0.5154	0.5154	100.0	Pass
16	0.5409	0.5409	100.0	Pass
17	0.4858	0.4858	100.0	Pass
18	0.7330	0.7330	100.0	Pass
19	0.6376	0.6376	100.0	Pass
20	0.4011	0.4011	100.0	Pass
21	0.6750	0.6750	100.0	Pass
22	0.8099	0.8099	100.0	Pass
23	0.5850	0.5850	100.0	Pass
24	0.6845	0.6845	100.0	Pass
25	0.4254	0.4254	100.0	Pass
26	0.3452	0.3452	100.0	Pass
27	0.4474	0.4474	100.0	Pass
28	0.4265	0.4265	100.0	Pass

29	0.7303	0.7303	100.0	Pass
30	0.5571	0.5571	100.0	Pass
Dec1	0.6256	0.6256	100.0	Pass
2	0.5955	0.5955	100.0	Pass
3	0.3646	0.3646	100.0	Pass
4	0.4240	0.4240	100.0	Pass
5	0.3555	0.3555	100.0	Pass
6	0.3138	0.3138	100.0	Pass
7	0.4726	0.4726	100.0	Pass
8	0.5949	0.5949	100.0	Pass
9	0.5762	0.5762	100.0	Pass
10	0.6192	0.6192	100.0	Pass
11	0.4389	0.4389	100.0	Pass
12	0.4870	0.4870	100.0	Pass
13	0.7503	0.7503	100.0	Pass
14	0.4850	0.4850	100.0	Pass
15	0.6694	0.6694	100.0	Pass
16	0.4219	0.4219	100.0	Pass
17	0.5298	0.5298	100.0	Pass
18	0.4272	0.4272	100.0	Pass
19	0.5198	0.5198	100.0	Pass
20	0.4980	0.4980	100.0	Pass
21	0.5484	0.5484	100.0	Pass
22	0.5423	0.5423	100.0	Pass
23	0.5939	0.5939	100.0	Pass
24	0.6648	0.6648	100.0	Pass
25	0.5550	0.5550	100.0	Pass
26	0.5038	0.5038	100.0	Pass
27	0.3278	0.3278	100.0	Pass
28	0.5592	0.5592	100.0	Pass
29	0.3445	0.3445	100.0	Pass
30	0.3741	0.3741	100.0	Pass
31	0.6577	0.6577	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #7

Total Pervious Area:0.063
Total Impervious Area:0.231

Mitigated Landuse Totals for POC #7

Total Pervious Area:0.063
Total Impervious Area:0.231

Flow Frequency Return Periods for Predeveloped. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.194755
5 year	0.232739
10 year	0.253379
25 year	0.275758

50 year	0.290328
100 year	0.303455

Flow Frequency Return Periods for Mitigated. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.194755
5 year	0.232739
10 year	0.253379
25 year	0.275758
50 year	0.290328
100 year	0.303455

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #7

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.208	0.208
1957	0.257	0.257
1958	0.196	0.196
1959	0.198	0.198
1960	0.206	0.206
1961	0.162	0.162
1962	0.273	0.273
1963	0.250	0.250
1964	0.214	0.214
1965	0.215	0.215
1966	0.211	0.211
1967	0.132	0.132
1968	0.203	0.203
1969	0.193	0.193
1970	0.179	0.179
1971	0.278	0.278
1972	0.235	0.235
1973	0.217	0.217
1974	0.210	0.210
1975	0.184	0.184
1976	0.227	0.227
1977	0.163	0.163
1978	0.286	0.286
1979	0.180	0.180
1980	0.164	0.164
1981	0.211	0.211
1982	0.243	0.243
1983	0.192	0.192
1984	0.178	0.178
1985	0.132	0.132
1986	0.216	0.216
1987	0.150	0.150
1988	0.228	0.228
1989	0.192	0.192
1990	0.251	0.251
1991	0.157	0.157
1992	0.126	0.126
1993	0.141	0.141
1994	0.181	0.181
1995	0.171	0.171
1996	0.209	0.209

1997	0.210	0.210
1998	0.130	0.130
1999	0.166	0.166
2000	0.153	0.153
2001	0.148	0.148
2002	0.221	0.221
2003	0.266	0.266
2004	0.246	0.246
2005	0.194	0.194
2006	0.198	0.198
2007	0.234	0.234
2008	0.120	0.120
2009	0.113	0.113

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	0.2858	0.2858
2	0.2777	0.2777
3	0.2725	0.2725
4	0.2657	0.2657
5	0.2569	0.2569
6	0.2508	0.2508
7	0.2497	0.2497
8	0.2459	0.2459
9	0.2431	0.2431
10	0.2355	0.2355
11	0.2342	0.2342
12	0.2284	0.2284
13	0.2265	0.2265
14	0.2205	0.2205
15	0.2174	0.2174
16	0.2158	0.2158
17	0.2145	0.2145
18	0.2138	0.2138
19	0.2107	0.2107
20	0.2107	0.2107
21	0.2103	0.2103
22	0.2098	0.2098
23	0.2094	0.2094
24	0.2081	0.2081
25	0.2061	0.2061
26	0.2025	0.2025
27	0.1977	0.1977
28	0.1976	0.1976
29	0.1964	0.1964
30	0.1936	0.1936
31	0.1932	0.1932
32	0.1919	0.1919
33	0.1917	0.1917
34	0.1843	0.1843
35	0.1811	0.1811
36	0.1798	0.1798
37	0.1786	0.1786
38	0.1779	0.1779
39	0.1709	0.1709

40	0.1662	0.1662
41	0.1645	0.1645
42	0.1626	0.1626
43	0.1624	0.1624
44	0.1570	0.1570
45	0.1531	0.1531
46	0.1499	0.1499
47	0.1478	0.1478
48	0.1411	0.1411
49	0.1320	0.1320
50	0.1316	0.1316
51	0.1296	0.1296
52	0.1261	0.1261
53	0.1197	0.1197
54	0.1126	0.1126

Stream Protection Duration

POC #7

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.0974	1011	1011	100	Pass
0.0993	942	942	100	Pass
0.1013	874	874	100	Pass
0.1032	816	816	100	Pass
0.1052	762	762	100	Pass
0.1071	704	704	100	Pass
0.1091	650	650	100	Pass
0.1110	597	597	100	Pass
0.1130	561	561	100	Pass
0.1149	528	528	100	Pass
0.1169	493	493	100	Pass
0.1188	458	458	100	Pass
0.1208	430	430	100	Pass
0.1227	400	400	100	Pass
0.1247	370	370	100	Pass
0.1266	342	342	100	Pass
0.1286	319	319	100	Pass
0.1305	301	301	100	Pass
0.1325	280	280	100	Pass
0.1344	262	262	100	Pass
0.1364	250	250	100	Pass
0.1383	237	237	100	Pass
0.1403	228	228	100	Pass
0.1422	211	211	100	Pass
0.1442	196	196	100	Pass
0.1461	190	190	100	Pass
0.1481	177	177	100	Pass
0.1500	170	170	100	Pass
0.1519	166	166	100	Pass
0.1539	156	156	100	Pass
0.1558	152	152	100	Pass
0.1578	141	141	100	Pass
0.1597	135	135	100	Pass

0.1617	127	127	100	Pass
0.1636	112	112	100	Pass
0.1656	104	104	100	Pass
0.1675	98	98	100	Pass
0.1695	96	96	100	Pass
0.1714	93	93	100	Pass
0.1734	90	90	100	Pass
0.1753	88	88	100	Pass
0.1773	83	83	100	Pass
0.1792	80	80	100	Pass
0.1812	75	75	100	Pass
0.1831	71	71	100	Pass
0.1851	68	68	100	Pass
0.1870	64	64	100	Pass
0.1890	62	62	100	Pass
0.1909	57	57	100	Pass
0.1929	52	52	100	Pass
0.1948	49	49	100	Pass
0.1968	48	48	100	Pass
0.1987	44	44	100	Pass
0.2007	43	43	100	Pass
0.2026	42	42	100	Pass
0.2046	42	42	100	Pass
0.2065	40	40	100	Pass
0.2085	38	38	100	Pass
0.2104	33	33	100	Pass
0.2124	31	31	100	Pass
0.2143	29	29	100	Pass
0.2163	26	26	100	Pass
0.2182	23	23	100	Pass
0.2202	23	23	100	Pass
0.2221	22	22	100	Pass
0.2241	22	22	100	Pass
0.2260	21	21	100	Pass
0.2280	19	19	100	Pass
0.2299	17	17	100	Pass
0.2319	16	16	100	Pass
0.2338	15	15	100	Pass
0.2358	13	13	100	Pass
0.2377	12	12	100	Pass
0.2397	11	11	100	Pass
0.2416	11	11	100	Pass
0.2436	10	10	100	Pass
0.2455	10	10	100	Pass
0.2475	9	9	100	Pass
0.2494	9	9	100	Pass
0.2513	7	7	100	Pass
0.2533	6	6	100	Pass
0.2552	6	6	100	Pass
0.2572	5	5	100	Pass
0.2591	5	5	100	Pass
0.2611	5	5	100	Pass
0.2630	4	4	100	Pass
0.2650	4	4	100	Pass
0.2669	3	3	100	Pass
0.2689	3	3	100	Pass
0.2708	3	3	100	Pass

0.2728	2	2	100	Pass
0.2747	2	2	100	Pass
0.2767	2	2	100	Pass
0.2786	1	1	100	Pass
0.2806	1	1	100	Pass
0.2825	1	1	100	Pass
0.2845	1	1	100	Pass
0.2864	0	0	100	Pass
0.2884	0	0	0	Pass
0.2903	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #7

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 7

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	12.3996	12.3996	100.0	Pass
Feb	9.5077	9.5077	100.0	Pass
Mar	8.4620	8.4620	100.0	Pass
Apr	4.7425	4.7425	100.0	Pass
May	2.5563	2.5563	100.0	Pass
Jun	1.6968	1.6968	100.0	Pass
Jul	0.8366	0.8366	100.0	Pass
Aug	1.2393	1.2393	100.0	Pass
Sep	2.8222	2.8222	100.0	Pass
Oct	6.8997	6.8997	100.0	Pass
Nov	11.7509	11.7509	100.0	Pass
Dec	11.9582	11.9582	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3973	0.3973	100.0	Pass
2	0.3138	0.3138	100.0	Pass
3	0.3983	0.3983	100.0	Pass
4	0.4666	0.4666	100.0	Pass
5	0.3412	0.3412	100.0	Pass
6	0.5100	0.5100	100.0	Pass
7	0.3969	0.3969	100.0	Pass
8	0.3985	0.3985	100.0	Pass
9	0.4243	0.4243	100.0	Pass
10	0.4131	0.4131	100.0	Pass
11	0.5046	0.5046	100.0	Pass
12	0.3963	0.3963	100.0	Pass
13	0.4990	0.4990	100.0	Pass
14	0.4972	0.4972	100.0	Pass
15	0.4542	0.4542	100.0	Pass
16	0.3737	0.3737	100.0	Pass
17	0.3577	0.3577	100.0	Pass
18	0.3163	0.3163	100.0	Pass

19	0.3153	0.3153	100.0	Pass
20	0.2088	0.2088	100.0	Pass
21	0.3959	0.3959	100.0	Pass
22	0.4794	0.4794	100.0	Pass
23	0.5367	0.5367	100.0	Pass
24	0.3674	0.3674	100.0	Pass
25	0.3126	0.3126	100.0	Pass
26	0.2823	0.2823	100.0	Pass
27	0.3554	0.3554	100.0	Pass
28	0.4507	0.4507	100.0	Pass
29	0.3457	0.3457	100.0	Pass
30	0.4085	0.4085	100.0	Pass
31	0.2470	0.2470	100.0	Pass
Feb1	0.2806	0.2806	100.0	Pass
2	0.2565	0.2565	100.0	Pass
3	0.2319	0.2319	100.0	Pass
4	0.2147	0.2147	100.0	Pass
5	0.3934	0.3934	100.0	Pass
6	0.2006	0.2006	100.0	Pass
7	0.2900	0.2900	100.0	Pass
8	0.2216	0.2216	100.0	Pass
9	0.2658	0.2658	100.0	Pass
10	0.3527	0.3527	100.0	Pass
11	0.4640	0.4640	100.0	Pass
12	0.3654	0.3654	100.0	Pass
13	0.3908	0.3908	100.0	Pass
14	0.5462	0.5462	100.0	Pass
15	0.3996	0.3996	100.0	Pass
16	0.5212	0.5212	100.0	Pass
17	0.4597	0.4597	100.0	Pass
18	0.3636	0.3636	100.0	Pass
19	0.3166	0.3166	100.0	Pass
20	0.3051	0.3051	100.0	Pass
21	0.2505	0.2505	100.0	Pass
22	0.3648	0.3648	100.0	Pass
23	0.3471	0.3471	100.0	Pass
24	0.3817	0.3817	100.0	Pass
25	0.3425	0.3425	100.0	Pass
26	0.3358	0.3358	100.0	Pass
27	0.2958	0.2958	100.0	Pass
28	0.3986	0.3986	100.0	Pass
29	0.2849	0.2849	100.0	Pass
Mar1	0.2811	0.2811	100.0	Pass
2	0.2307	0.2307	100.0	Pass
3	0.3238	0.3238	100.0	Pass
4	0.3391	0.3391	100.0	Pass
5	0.2669	0.2669	100.0	Pass
6	0.3372	0.3372	100.0	Pass
7	0.3318	0.3318	100.0	Pass
8	0.3209	0.3209	100.0	Pass
9	0.3222	0.3222	100.0	Pass
10	0.2804	0.2804	100.0	Pass
11	0.3042	0.3042	100.0	Pass
12	0.2702	0.2702	100.0	Pass
13	0.3268	0.3268	100.0	Pass
14	0.2598	0.2598	100.0	Pass
15	0.2124	0.2124	100.0	Pass

16	0.2046	0.2046	100.0	Pass
17	0.2765	0.2765	100.0	Pass
18	0.1702	0.1702	100.0	Pass
19	0.2539	0.2539	100.0	Pass
20	0.2048	0.2048	100.0	Pass
21	0.3437	0.3437	100.0	Pass
22	0.3855	0.3855	100.0	Pass
23	0.3186	0.3186	100.0	Pass
24	0.2056	0.2056	100.0	Pass
25	0.3152	0.3152	100.0	Pass
26	0.2292	0.2292	100.0	Pass
27	0.2205	0.2205	100.0	Pass
28	0.2459	0.2459	100.0	Pass
29	0.2262	0.2262	100.0	Pass
30	0.1698	0.1698	100.0	Pass
31	0.1375	0.1375	100.0	Pass
Apr1	0.1464	0.1464	100.0	Pass
2	0.1645	0.1645	100.0	Pass
3	0.2266	0.2266	100.0	Pass
4	0.2047	0.2047	100.0	Pass
5	0.2200	0.2200	100.0	Pass
6	0.1194	0.1194	100.0	Pass
7	0.1969	0.1969	100.0	Pass
8	0.1977	0.1977	100.0	Pass
9	0.1767	0.1767	100.0	Pass
10	0.1737	0.1737	100.0	Pass
11	0.2392	0.2392	100.0	Pass
12	0.2049	0.2049	100.0	Pass
13	0.2144	0.2144	100.0	Pass
14	0.1829	0.1829	100.0	Pass
15	0.1949	0.1949	100.0	Pass
16	0.1100	0.1100	100.0	Pass
17	0.1502	0.1502	100.0	Pass
18	0.1724	0.1724	100.0	Pass
19	0.0932	0.0932	100.0	Pass
20	0.0908	0.0908	100.0	Pass
21	0.1522	0.1522	100.0	Pass
22	0.1281	0.1281	100.0	Pass
23	0.1116	0.1116	100.0	Pass
24	0.0899	0.0899	100.0	Pass
25	0.1082	0.1082	100.0	Pass
26	0.1801	0.1801	100.0	Pass
27	0.1398	0.1398	100.0	Pass
28	0.1450	0.1450	100.0	Pass
29	0.0709	0.0709	100.0	Pass
30	0.0954	0.0954	100.0	Pass
May1	0.1477	0.1477	100.0	Pass
2	0.1064	0.1064	100.0	Pass
3	0.1158	0.1158	100.0	Pass
4	0.0900	0.0900	100.0	Pass
5	0.0870	0.0870	100.0	Pass
6	0.0738	0.0738	100.0	Pass
7	0.0975	0.0975	100.0	Pass
8	0.0600	0.0600	100.0	Pass
9	0.0843	0.0843	100.0	Pass
10	0.0684	0.0684	100.0	Pass
11	0.0645	0.0645	100.0	Pass

12	0.0907	0.0907	100.0	Pass
13	0.0974	0.0974	100.0	Pass
14	0.0949	0.0949	100.0	Pass
15	0.0637	0.0637	100.0	Pass
16	0.0833	0.0833	100.0	Pass
17	0.0676	0.0676	100.0	Pass
18	0.1100	0.1100	100.0	Pass
19	0.0582	0.0582	100.0	Pass
20	0.0571	0.0571	100.0	Pass
21	0.0589	0.0589	100.0	Pass
22	0.0708	0.0708	100.0	Pass
23	0.0622	0.0622	100.0	Pass
24	0.0656	0.0656	100.0	Pass
25	0.0550	0.0550	100.0	Pass
26	0.0955	0.0955	100.0	Pass
27	0.0746	0.0746	100.0	Pass
28	0.0804	0.0804	100.0	Pass
29	0.1091	0.1091	100.0	Pass
30	0.0706	0.0706	100.0	Pass
31	0.0770	0.0770	100.0	Pass
Jun1	0.0581	0.0581	100.0	Pass
2	0.0958	0.0958	100.0	Pass
3	0.0899	0.0899	100.0	Pass
4	0.0665	0.0665	100.0	Pass
5	0.1089	0.1089	100.0	Pass
6	0.0410	0.0410	100.0	Pass
7	0.0627	0.0627	100.0	Pass
8	0.0897	0.0897	100.0	Pass
9	0.0676	0.0676	100.0	Pass
10	0.0646	0.0646	100.0	Pass
11	0.0466	0.0466	100.0	Pass
12	0.0574	0.0574	100.0	Pass
13	0.0906	0.0906	100.0	Pass
14	0.0371	0.0371	100.0	Pass
15	0.0743	0.0743	100.0	Pass
16	0.0324	0.0324	100.0	Pass
17	0.0455	0.0455	100.0	Pass
18	0.0310	0.0310	100.0	Pass
19	0.0375	0.0375	100.0	Pass
20	0.0416	0.0416	100.0	Pass
21	0.0396	0.0396	100.0	Pass
22	0.0225	0.0225	100.0	Pass
23	0.1135	0.1135	100.0	Pass
24	0.0296	0.0296	100.0	Pass
25	0.0508	0.0508	100.0	Pass
26	0.0308	0.0308	100.0	Pass
27	0.0281	0.0281	100.0	Pass
28	0.0289	0.0289	100.0	Pass
29	0.0374	0.0374	100.0	Pass
30	0.0795	0.0795	100.0	Pass
Jul1	0.0204	0.0204	100.0	Pass
2	0.0178	0.0178	100.0	Pass
3	0.0196	0.0196	100.0	Pass
4	0.0468	0.0468	100.0	Pass
5	0.0344	0.0344	100.0	Pass
6	0.0264	0.0264	100.0	Pass
7	0.0501	0.0501	100.0	Pass

8	0.0287	0.0287	100.0	Pass
9	0.0593	0.0593	100.0	Pass
10	0.0386	0.0386	100.0	Pass
11	0.0773	0.0773	100.0	Pass
12	0.0383	0.0383	100.0	Pass
13	0.0295	0.0295	100.0	Pass
14	0.0448	0.0448	100.0	Pass
15	0.0188	0.0188	100.0	Pass
16	0.0118	0.0118	100.0	Pass
17	0.0383	0.0383	100.0	Pass
18	0.0130	0.0130	100.0	Pass
19	0.0170	0.0170	100.0	Pass
20	0.0285	0.0285	100.0	Pass
21	0.0226	0.0226	100.0	Pass
22	0.0020	0.0020	100.0	Pass
23	0.0066	0.0066	100.0	Pass
24	0.0074	0.0074	100.0	Pass
25	0.0168	0.0168	100.0	Pass
26	0.0074	0.0074	100.0	Pass
27	0.0105	0.0105	100.0	Pass
28	0.0089	0.0089	100.0	Pass
29	0.0058	0.0058	100.0	Pass
30	0.0099	0.0099	100.0	Pass
31	0.0111	0.0111	100.0	Pass
Aug1	0.0451	0.0451	100.0	Pass
2	0.0161	0.0161	100.0	Pass
3	0.0068	0.0068	100.0	Pass
4	0.0064	0.0064	100.0	Pass
5	0.0513	0.0513	100.0	Pass
6	0.0353	0.0353	100.0	Pass
7	0.0129	0.0129	100.0	Pass
8	0.0130	0.0130	100.0	Pass
9	0.0014	0.0014	100.0	Pass
10	0.0071	0.0071	100.0	Pass
11	0.0328	0.0328	100.0	Pass
12	0.0288	0.0288	100.0	Pass
13	0.0356	0.0356	100.0	Pass
14	0.0217	0.0217	100.0	Pass
15	0.0198	0.0198	100.0	Pass
16	0.0176	0.0176	100.0	Pass
17	0.0335	0.0335	100.0	Pass
18	0.0627	0.0627	100.0	Pass
19	0.0180	0.0180	100.0	Pass
20	0.0494	0.0494	100.0	Pass
21	0.0451	0.0451	100.0	Pass
22	0.0878	0.0878	100.0	Pass
23	0.0819	0.0819	100.0	Pass
24	0.0703	0.0703	100.0	Pass
25	0.0294	0.0294	100.0	Pass
26	0.0843	0.0843	100.0	Pass
27	0.0860	0.0860	100.0	Pass
28	0.0855	0.0855	100.0	Pass
29	0.0553	0.0553	100.0	Pass
30	0.0874	0.0874	100.0	Pass
31	0.1380	0.1380	100.0	Pass
Sep1	0.0542	0.0542	100.0	Pass
2	0.0550	0.0550	100.0	Pass

3	0.0600	0.0600	100.0	Pass
4	0.0751	0.0751	100.0	Pass
5	0.0640	0.0640	100.0	Pass
6	0.0449	0.0449	100.0	Pass
7	0.0852	0.0852	100.0	Pass
8	0.0546	0.0546	100.0	Pass
9	0.1388	0.1388	100.0	Pass
10	0.0329	0.0329	100.0	Pass
11	0.0285	0.0285	100.0	Pass
12	0.0748	0.0748	100.0	Pass
13	0.1367	0.1367	100.0	Pass
14	0.0880	0.0880	100.0	Pass
15	0.1333	0.1333	100.0	Pass
16	0.1404	0.1404	100.0	Pass
17	0.1530	0.1530	100.0	Pass
18	0.1374	0.1374	100.0	Pass
19	0.1471	0.1471	100.0	Pass
20	0.1073	0.1073	100.0	Pass
21	0.1481	0.1481	100.0	Pass
22	0.1185	0.1185	100.0	Pass
23	0.0949	0.0949	100.0	Pass
24	0.0680	0.0680	100.0	Pass
25	0.0725	0.0725	100.0	Pass
26	0.0726	0.0726	100.0	Pass
27	0.0987	0.0987	100.0	Pass
28	0.0863	0.0863	100.0	Pass
29	0.1138	0.1138	100.0	Pass
30	0.0821	0.0821	100.0	Pass
Oct1	0.0590	0.0590	100.0	Pass
2	0.1455	0.1455	100.0	Pass
3	0.1300	0.1300	100.0	Pass
4	0.1595	0.1595	100.0	Pass
5	0.1693	0.1693	100.0	Pass
6	0.1861	0.1861	100.0	Pass
7	0.2387	0.2387	100.0	Pass
8	0.1943	0.1943	100.0	Pass
9	0.1513	0.1513	100.0	Pass
10	0.1241	0.1241	100.0	Pass
11	0.2335	0.2335	100.0	Pass
12	0.1576	0.1576	100.0	Pass
13	0.2190	0.2190	100.0	Pass
14	0.1255	0.1255	100.0	Pass
15	0.1489	0.1489	100.0	Pass
16	0.1981	0.1981	100.0	Pass
17	0.1819	0.1819	100.0	Pass
18	0.2909	0.2909	100.0	Pass
19	0.3578	0.3578	100.0	Pass
20	0.3083	0.3083	100.0	Pass
21	0.3723	0.3723	100.0	Pass
22	0.2199	0.2199	100.0	Pass
23	0.3622	0.3622	100.0	Pass
24	0.3181	0.3181	100.0	Pass
25	0.2843	0.2843	100.0	Pass
26	0.3446	0.3446	100.0	Pass
27	0.2929	0.2929	100.0	Pass
28	0.2727	0.2727	100.0	Pass
29	0.2310	0.2310	100.0	Pass

30	0.3413	0.3413	100.0	Pass
31	0.2873	0.2873	100.0	Pass
Nov1	0.3620	0.3620	100.0	Pass
2	0.4367	0.4367	100.0	Pass
3	0.3403	0.3403	100.0	Pass
4	0.3447	0.3447	100.0	Pass
5	0.3816	0.3816	100.0	Pass
6	0.3182	0.3182	100.0	Pass
7	0.2887	0.2887	100.0	Pass
8	0.3726	0.3726	100.0	Pass
9	0.4399	0.4399	100.0	Pass
10	0.3768	0.3768	100.0	Pass
11	0.4211	0.4211	100.0	Pass
12	0.3895	0.3895	100.0	Pass
13	0.2921	0.2921	100.0	Pass
14	0.3428	0.3428	100.0	Pass
15	0.3836	0.3836	100.0	Pass
16	0.4017	0.4017	100.0	Pass
17	0.3665	0.3665	100.0	Pass
18	0.5388	0.5388	100.0	Pass
19	0.4805	0.4805	100.0	Pass
20	0.3178	0.3178	100.0	Pass
21	0.5015	0.5015	100.0	Pass
22	0.5926	0.5926	100.0	Pass
23	0.4504	0.4504	100.0	Pass
24	0.5163	0.5163	100.0	Pass
25	0.3401	0.3401	100.0	Pass
26	0.2758	0.2758	100.0	Pass
27	0.3368	0.3368	100.0	Pass
28	0.3217	0.3217	100.0	Pass
29	0.5330	0.5330	100.0	Pass
30	0.4249	0.4249	100.0	Pass
Dec1	0.4695	0.4695	100.0	Pass
2	0.4538	0.4538	100.0	Pass
3	0.2912	0.2912	100.0	Pass
4	0.3237	0.3237	100.0	Pass
5	0.2775	0.2775	100.0	Pass
6	0.2413	0.2413	100.0	Pass
7	0.3480	0.3480	100.0	Pass
8	0.4372	0.4372	100.0	Pass
9	0.4323	0.4323	100.0	Pass
10	0.4673	0.4673	100.0	Pass
11	0.3402	0.3402	100.0	Pass
12	0.3696	0.3696	100.0	Pass
13	0.5493	0.5493	100.0	Pass
14	0.3800	0.3800	100.0	Pass
15	0.4984	0.4984	100.0	Pass
16	0.3346	0.3346	100.0	Pass
17	0.4008	0.4008	100.0	Pass
18	0.3297	0.3297	100.0	Pass
19	0.3874	0.3874	100.0	Pass
20	0.3786	0.3786	100.0	Pass
21	0.4170	0.4170	100.0	Pass
22	0.4098	0.4098	100.0	Pass
23	0.4462	0.4462	100.0	Pass
24	0.4946	0.4946	100.0	Pass
25	0.4277	0.4277	100.0	Pass

26	0.3907	0.3907	100.0	Pass
27	0.2618	0.2618	100.0	Pass
28	0.4156	0.4156	100.0	Pass
29	0.2735	0.2735	100.0	Pass
30	0.2866	0.2866	100.0	Pass
31	0.4827	0.4827	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #8
Total Pervious Area:0.565
Total Impervious Area:1.653

Mitigated Landuse Totals for POC #8
Total Pervious Area:0.565
Total Impervious Area:1.653

Flow Frequency Return Periods for Predeveloped. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.439619
5 year	1.726771
10 year	1.883228
25 year	2.053169
50 year	2.163961
100 year	2.263882

Flow Frequency Return Periods for Mitigated. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.439619
5 year	1.726771
10 year	1.883228
25 year	2.053169
50 year	2.163961
100 year	2.263882

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #8

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.552	1.552
1957	1.904	1.904
1958	1.447	1.447
1959	1.471	1.471
1960	1.536	1.536
1961	1.187	1.187
1962	2.032	2.032
1963	1.858	1.858
1964	1.580	1.580
1965	1.593	1.593
1966	1.569	1.569

1967	0.969	0.969
1968	1.504	1.504
1969	1.439	1.439
1970	1.311	1.311
1971	2.068	2.068
1972	1.758	1.758
1973	1.609	1.609
1974	1.564	1.564
1975	1.366	1.366
1976	1.683	1.683
1977	1.201	1.201
1978	2.116	2.116
1979	1.334	1.334
1980	1.215	1.215
1981	1.556	1.556
1982	1.797	1.797
1983	1.419	1.419
1984	1.320	1.320
1985	0.962	0.962
1986	1.601	1.601
1987	1.109	1.109
1988	1.696	1.696
1989	1.417	1.417
1990	1.867	1.867
1991	1.151	1.151
1992	0.925	0.925
1993	1.032	1.032
1994	1.340	1.340
1995	1.239	1.239
1996	1.525	1.525
1997	1.553	1.553
1998	0.951	0.951
1999	1.227	1.227
2000	1.131	1.131
2001	1.080	1.080
2002	1.589	1.589
2003	1.982	1.982
2004	1.829	1.829
2005	1.435	1.435
2006	1.466	1.466
2007	1.743	1.743
2008	0.877	0.877
2009	0.823	0.823

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	2.1159	2.1159
2	2.0677	2.0677
3	2.0323	2.0323
4	1.9824	1.9824
5	1.9041	1.9041
6	1.8675	1.8675
7	1.8585	1.8585
8	1.8287	1.8287
9	1.7969	1.7969

10	1.7576	1.7576
11	1.7432	1.7432
12	1.6955	1.6955
13	1.6827	1.6827
14	1.6085	1.6085
15	1.6006	1.6006
16	1.5925	1.5925
17	1.5885	1.5885
18	1.5804	1.5804
19	1.5692	1.5692
20	1.5637	1.5637
21	1.5564	1.5564
22	1.5526	1.5526
23	1.5517	1.5517
24	1.5363	1.5363
25	1.5246	1.5246
26	1.5039	1.5039
27	1.4706	1.4706
28	1.4661	1.4661
29	1.4468	1.4468
30	1.4392	1.4392
31	1.4350	1.4350
32	1.4194	1.4194
33	1.4173	1.4173
34	1.3661	1.3661
35	1.3399	1.3399
36	1.3342	1.3342
37	1.3204	1.3204
38	1.3108	1.3108
39	1.2394	1.2394
40	1.2268	1.2268
41	1.2149	1.2149
42	1.2011	1.2011
43	1.1868	1.1868
44	1.1514	1.1514
45	1.1311	1.1311
46	1.1092	1.1092
47	1.0801	1.0801
48	1.0319	1.0319
49	0.9690	0.9690
50	0.9623	0.9623
51	0.9510	0.9510
52	0.9249	0.9249
53	0.8770	0.8770
54	0.8226	0.8226

Stream Protection Duration

POC #8

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.7198	978	978	100	Pass
0.7344	909	909	100	Pass
0.7490	845	845	100	Pass

0.7636	789	789	100	Pass
0.7782	739	739	100	Pass
0.7927	683	683	100	Pass
0.8073	626	626	100	Pass
0.8219	586	586	100	Pass
0.8365	547	547	100	Pass
0.8511	512	512	100	Pass
0.8657	479	479	100	Pass
0.8803	444	444	100	Pass
0.8949	418	418	100	Pass
0.9094	383	383	100	Pass
0.9240	359	359	100	Pass
0.9386	335	335	100	Pass
0.9532	310	310	100	Pass
0.9678	294	294	100	Pass
0.9824	273	273	100	Pass
0.9970	256	256	100	Pass
1.0116	246	246	100	Pass
1.0261	232	232	100	Pass
1.0407	217	217	100	Pass
1.0553	204	204	100	Pass
1.0699	192	192	100	Pass
1.0845	184	184	100	Pass
1.0991	176	176	100	Pass
1.1137	167	167	100	Pass
1.1283	161	161	100	Pass
1.1428	153	153	100	Pass
1.1574	143	143	100	Pass
1.1720	137	137	100	Pass
1.1866	131	131	100	Pass
1.2012	120	120	100	Pass
1.2158	107	107	100	Pass
1.2304	100	100	100	Pass
1.2450	97	97	100	Pass
1.2595	94	94	100	Pass
1.2741	90	90	100	Pass
1.2887	88	88	100	Pass
1.3033	87	87	100	Pass
1.3179	82	82	100	Pass
1.3325	79	79	100	Pass
1.3471	73	73	100	Pass
1.3617	70	70	100	Pass
1.3762	67	67	100	Pass
1.3908	63	63	100	Pass
1.4054	60	60	100	Pass
1.4200	53	53	100	Pass
1.4346	52	52	100	Pass
1.4492	48	48	100	Pass
1.4638	47	47	100	Pass
1.4784	44	44	100	Pass
1.4929	43	43	100	Pass
1.5075	42	42	100	Pass
1.5221	42	42	100	Pass
1.5367	40	40	100	Pass
1.5513	38	38	100	Pass
1.5659	32	32	100	Pass
1.5805	31	31	100	Pass

1.5951	27	27	100	Pass
1.6096	23	23	100	Pass
1.6242	22	22	100	Pass
1.6388	22	22	100	Pass
1.6534	22	22	100	Pass
1.6680	21	21	100	Pass
1.6826	20	20	100	Pass
1.6972	18	18	100	Pass
1.7118	16	16	100	Pass
1.7263	15	15	100	Pass
1.7409	15	15	100	Pass
1.7555	14	14	100	Pass
1.7701	11	11	100	Pass
1.7847	11	11	100	Pass
1.7993	10	10	100	Pass
1.8139	10	10	100	Pass
1.8285	10	10	100	Pass
1.8430	9	9	100	Pass
1.8576	9	9	100	Pass
1.8722	7	7	100	Pass
1.8868	6	6	100	Pass
1.9014	6	6	100	Pass
1.9160	5	5	100	Pass
1.9306	5	5	100	Pass
1.9452	5	5	100	Pass
1.9597	4	4	100	Pass
1.9743	4	4	100	Pass
1.9889	3	3	100	Pass
2.0035	3	3	100	Pass
2.0181	3	3	100	Pass
2.0327	3	3	100	Pass
2.0473	2	2	100	Pass
2.0618	2	2	100	Pass
2.0764	1	1	100	Pass
2.0910	1	1	100	Pass
2.1056	1	1	100	Pass
2.1202	0	0	100	Pass
2.1348	0	0	0	Pass
2.1494	0	0	0	Pass
2.1640	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #8
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 8
Average Annual Volume (acft)
Month Predevel Mitigated Percent Pass/Fail

Jan	92.7455	92.7455	100.0	Pass
Feb	71.1748	71.1748	100.0	Pass

Mar	63.3117	63.3117	100.0	Pass
Apr	35.3755	35.3755	100.0	Pass
May	18.8911	18.8911	100.0	Pass
Jun	12.4801	12.4801	100.0	Pass
Jul	6.1204	6.1204	100.0	Pass
Aug	9.0353	9.0353	100.0	Pass
Sep	20.7388	20.7388	100.0	Pass
Oct	51.0751	51.0751	100.0	Pass
Nov	87.6468	87.6468	100.0	Pass
Dec	89.4553	89.4553	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	2.9686	2.9686	100.0	Pass
2	2.3581	2.3581	100.0	Pass
3	2.9715	2.9715	100.0	Pass
4	3.4673	3.4673	100.0	Pass
5	2.5648	2.5648	100.0	Pass
6	3.7870	3.7870	100.0	Pass
7	2.9803	2.9803	100.0	Pass
8	2.9838	2.9838	100.0	Pass
9	3.1640	3.1640	100.0	Pass
10	3.0936	3.0936	100.0	Pass
11	3.7642	3.7642	100.0	Pass
12	2.9779	2.9779	100.0	Pass
13	3.7230	3.7230	100.0	Pass
14	3.7174	3.7174	100.0	Pass
15	3.4046	3.4046	100.0	Pass
16	2.8201	2.8201	100.0	Pass
17	2.6932	2.6932	100.0	Pass
18	2.3824	2.3824	100.0	Pass
19	2.3641	2.3641	100.0	Pass
20	1.5837	1.5837	100.0	Pass
21	2.9235	2.9235	100.0	Pass
22	3.5646	3.5646	100.0	Pass
23	4.0018	4.0018	100.0	Pass
24	2.7716	2.7716	100.0	Pass
25	2.3594	2.3594	100.0	Pass
26	2.1301	2.1301	100.0	Pass
27	2.6509	2.6509	100.0	Pass
28	3.3546	3.3546	100.0	Pass
29	2.5966	2.5966	100.0	Pass
30	3.0483	3.0483	100.0	Pass
31	1.8727	1.8727	100.0	Pass
Feb1	2.1065	2.1065	100.0	Pass
2	1.9203	1.9203	100.0	Pass
3	1.7412	1.7412	100.0	Pass
4	1.6121	1.6121	100.0	Pass
5	2.9146	2.9146	100.0	Pass
6	1.5237	1.5237	100.0	Pass
7	2.1597	2.1597	100.0	Pass
8	1.6644	1.6644	100.0	Pass
9	1.9773	1.9773	100.0	Pass
10	2.6151	2.6151	100.0	Pass
11	3.4488	3.4488	100.0	Pass
12	2.7428	2.7428	100.0	Pass
13	2.9177	2.9177	100.0	Pass
14	4.0522	4.0522	100.0	Pass

15	3.0079	3.0079	100.0	Pass
16	3.8832	3.8832	100.0	Pass
17	3.4456	3.4456	100.0	Pass
18	2.7486	2.7486	100.0	Pass
19	2.3897	2.3897	100.0	Pass
20	2.2965	2.2965	100.0	Pass
21	1.8860	1.8860	100.0	Pass
22	2.7187	2.7187	100.0	Pass
23	2.5944	2.5944	100.0	Pass
24	2.8512	2.8512	100.0	Pass
25	2.5687	2.5687	100.0	Pass
26	2.5215	2.5215	100.0	Pass
27	2.2249	2.2249	100.0	Pass
28	2.9849	2.9849	100.0	Pass
29	2.1379	2.1379	100.0	Pass
Mar1	2.1054	2.1054	100.0	Pass
2	1.7358	1.7358	100.0	Pass
3	2.4105	2.4105	100.0	Pass
4	2.5291	2.5291	100.0	Pass
5	2.0010	2.0010	100.0	Pass
6	2.5207	2.5207	100.0	Pass
7	2.4727	2.4727	100.0	Pass
8	2.3997	2.3997	100.0	Pass
9	2.4100	2.4100	100.0	Pass
10	2.1057	2.1057	100.0	Pass
11	2.2766	2.2766	100.0	Pass
12	2.0241	2.0241	100.0	Pass
13	2.4387	2.4387	100.0	Pass
14	1.9517	1.9517	100.0	Pass
15	1.5990	1.5990	100.0	Pass
16	1.5336	1.5336	100.0	Pass
17	2.0638	2.0638	100.0	Pass
18	1.2853	1.2853	100.0	Pass
19	1.8881	1.8881	100.0	Pass
20	1.5328	1.5328	100.0	Pass
21	2.5458	2.5458	100.0	Pass
22	2.8608	2.8608	100.0	Pass
23	2.3888	2.3888	100.0	Pass
24	1.5625	1.5625	100.0	Pass
25	2.3469	2.3469	100.0	Pass
26	1.7267	1.7267	100.0	Pass
27	1.6506	1.6506	100.0	Pass
28	1.8406	1.8406	100.0	Pass
29	1.6919	1.6919	100.0	Pass
30	1.2802	1.2802	100.0	Pass
31	1.0370	1.0370	100.0	Pass
Apr1	1.0957	1.0957	100.0	Pass
2	1.2257	1.2257	100.0	Pass
3	1.6746	1.6746	100.0	Pass
4	1.5247	1.5247	100.0	Pass
5	1.6457	1.6457	100.0	Pass
6	0.9063	0.9063	100.0	Pass
7	1.4604	1.4604	100.0	Pass
8	1.4742	1.4742	100.0	Pass
9	1.3156	1.3156	100.0	Pass
10	1.3000	1.3000	100.0	Pass
11	1.7684	1.7684	100.0	Pass

12	1.5291	1.5291	100.0	Pass
13	1.5952	1.5952	100.0	Pass
14	1.3684	1.3684	100.0	Pass
15	1.4577	1.4577	100.0	Pass
16	0.8360	0.8360	100.0	Pass
17	1.1183	1.1183	100.0	Pass
18	1.2801	1.2801	100.0	Pass
19	0.7071	0.7071	100.0	Pass
20	0.6805	0.6805	100.0	Pass
21	1.1237	1.1237	100.0	Pass
22	0.9507	0.9507	100.0	Pass
23	0.8335	0.8335	100.0	Pass
24	0.6732	0.6732	100.0	Pass
25	0.8013	0.8013	100.0	Pass
26	1.3332	1.3332	100.0	Pass
27	1.0421	1.0421	100.0	Pass
28	1.0811	1.0811	100.0	Pass
29	0.5395	0.5395	100.0	Pass
30	0.7078	0.7078	100.0	Pass
May1	1.0865	1.0865	100.0	Pass
2	0.7936	0.7936	100.0	Pass
3	0.8573	0.8573	100.0	Pass
4	0.6722	0.6722	100.0	Pass
5	0.6466	0.6466	100.0	Pass
6	0.5486	0.5486	100.0	Pass
7	0.7199	0.7199	100.0	Pass
8	0.4487	0.4487	100.0	Pass
9	0.6217	0.6217	100.0	Pass
10	0.5059	0.5059	100.0	Pass
11	0.4760	0.4760	100.0	Pass
12	0.6680	0.6680	100.0	Pass
13	0.7172	0.7172	100.0	Pass
14	0.6991	0.6991	100.0	Pass
15	0.4766	0.4766	100.0	Pass
16	0.6130	0.6130	100.0	Pass
17	0.5020	0.5020	100.0	Pass
18	0.8049	0.8049	100.0	Pass
19	0.4335	0.4335	100.0	Pass
20	0.4214	0.4214	100.0	Pass
21	0.4347	0.4347	100.0	Pass
22	0.5189	0.5189	100.0	Pass
23	0.4586	0.4586	100.0	Pass
24	0.4841	0.4841	100.0	Pass
25	0.4075	0.4075	100.0	Pass
26	0.6997	0.6997	100.0	Pass
27	0.5509	0.5509	100.0	Pass
28	0.5917	0.5917	100.0	Pass
29	0.8025	0.8025	100.0	Pass
30	0.5243	0.5243	100.0	Pass
31	0.5707	0.5707	100.0	Pass
Jun1	0.4344	0.4344	100.0	Pass
2	0.7005	0.7005	100.0	Pass
3	0.6589	0.6589	100.0	Pass
4	0.4915	0.4915	100.0	Pass
5	0.7976	0.7976	100.0	Pass
6	0.3092	0.3092	100.0	Pass
7	0.4642	0.4642	100.0	Pass

8	0.6586	0.6586	100.0	Pass
9	0.4988	0.4988	100.0	Pass
10	0.4745	0.4745	100.0	Pass
11	0.3447	0.3447	100.0	Pass
12	0.4202	0.4202	100.0	Pass
13	0.6618	0.6618	100.0	Pass
14	0.2777	0.2777	100.0	Pass
15	0.5446	0.5446	100.0	Pass
16	0.2430	0.2430	100.0	Pass
17	0.3356	0.3356	100.0	Pass
18	0.2317	0.2317	100.0	Pass
19	0.2746	0.2746	100.0	Pass
20	0.3027	0.3027	100.0	Pass
21	0.2900	0.2900	100.0	Pass
22	0.1669	0.1669	100.0	Pass
23	0.8209	0.8209	100.0	Pass
24	0.2239	0.2239	100.0	Pass
25	0.3721	0.3721	100.0	Pass
26	0.2261	0.2261	100.0	Pass
27	0.2051	0.2051	100.0	Pass
28	0.2102	0.2102	100.0	Pass
29	0.2711	0.2711	100.0	Pass
30	0.5776	0.5776	100.0	Pass
Jul1	0.1529	0.1529	100.0	Pass
2	0.1308	0.1308	100.0	Pass
3	0.1426	0.1426	100.0	Pass
4	0.3366	0.3366	100.0	Pass
5	0.2487	0.2487	100.0	Pass
6	0.1913	0.1913	100.0	Pass
7	0.3639	0.3639	100.0	Pass
8	0.2118	0.2118	100.0	Pass
9	0.4302	0.4302	100.0	Pass
10	0.2827	0.2827	100.0	Pass
11	0.5662	0.5662	100.0	Pass
12	0.2897	0.2897	100.0	Pass
13	0.2204	0.2204	100.0	Pass
14	0.3282	0.3282	100.0	Pass
15	0.1401	0.1401	100.0	Pass
16	0.0877	0.0877	100.0	Pass
17	0.2788	0.2788	100.0	Pass
18	0.0978	0.0978	100.0	Pass
19	0.1248	0.1248	100.0	Pass
20	0.2065	0.2065	100.0	Pass
21	0.1654	0.1654	100.0	Pass
22	0.0168	0.0168	100.0	Pass
23	0.0485	0.0485	100.0	Pass
24	0.0535	0.0535	100.0	Pass
25	0.1204	0.1204	100.0	Pass
26	0.0535	0.0535	100.0	Pass
27	0.0751	0.0751	100.0	Pass
28	0.0645	0.0645	100.0	Pass
29	0.0423	0.0423	100.0	Pass
30	0.0715	0.0715	100.0	Pass
31	0.0797	0.0797	100.0	Pass
Aug1	0.3240	0.3240	100.0	Pass
2	0.1183	0.1183	100.0	Pass
3	0.0509	0.0509	100.0	Pass

4	0.0469	0.0469	100.0	Pass
5	0.3703	0.3703	100.0	Pass
6	0.2567	0.2567	100.0	Pass
7	0.0956	0.0956	100.0	Pass
8	0.0950	0.0950	100.0	Pass
9	0.0106	0.0106	100.0	Pass
10	0.0517	0.0517	100.0	Pass
11	0.2359	0.2359	100.0	Pass
12	0.2076	0.2076	100.0	Pass
13	0.2575	0.2575	100.0	Pass
14	0.1592	0.1592	100.0	Pass
15	0.1456	0.1456	100.0	Pass
16	0.1287	0.1287	100.0	Pass
17	0.2413	0.2413	100.0	Pass
18	0.4512	0.4512	100.0	Pass
19	0.1331	0.1331	100.0	Pass
20	0.3564	0.3564	100.0	Pass
21	0.3279	0.3279	100.0	Pass
22	0.6370	0.6370	100.0	Pass
23	0.5986	0.5986	100.0	Pass
24	0.5211	0.5211	100.0	Pass
25	0.2224	0.2224	100.0	Pass
26	0.6130	0.6130	100.0	Pass
27	0.6282	0.6282	100.0	Pass
28	0.6280	0.6280	100.0	Pass
29	0.4074	0.4074	100.0	Pass
30	0.6359	0.6359	100.0	Pass
31	1.0064	1.0064	100.0	Pass
Sep1	0.4083	0.4083	100.0	Pass
2	0.4083	0.4083	100.0	Pass
3	0.4418	0.4418	100.0	Pass
4	0.5488	0.5488	100.0	Pass
5	0.4691	0.4691	100.0	Pass
6	0.3307	0.3307	100.0	Pass
7	0.6183	0.6183	100.0	Pass
8	0.4005	0.4005	100.0	Pass
9	1.0054	1.0054	100.0	Pass
10	0.2464	0.2464	100.0	Pass
11	0.2103	0.2103	100.0	Pass
12	0.5425	0.5425	100.0	Pass
13	0.9936	0.9936	100.0	Pass
14	0.6479	0.6479	100.0	Pass
15	0.9734	0.9734	100.0	Pass
16	1.0342	1.0342	100.0	Pass
17	1.1213	1.1213	100.0	Pass
18	1.0092	1.0092	100.0	Pass
19	1.0839	1.0839	100.0	Pass
20	0.7994	0.7994	100.0	Pass
21	1.0966	1.0966	100.0	Pass
22	0.8794	0.8794	100.0	Pass
23	0.7039	0.7039	100.0	Pass
24	0.5050	0.5050	100.0	Pass
25	0.5327	0.5327	100.0	Pass
26	0.5331	0.5331	100.0	Pass
27	0.7259	0.7259	100.0	Pass
28	0.6335	0.6335	100.0	Pass
29	0.8321	0.8321	100.0	Pass

30	0.6076	0.6076	100.0	Pass
Oct1	0.4386	0.4386	100.0	Pass
2	1.0577	1.0577	100.0	Pass
3	0.9509	0.9509	100.0	Pass
4	1.1699	1.1699	100.0	Pass
5	1.2423	1.2423	100.0	Pass
6	1.3649	1.3649	100.0	Pass
7	1.7527	1.7527	100.0	Pass
8	1.4370	1.4370	100.0	Pass
9	1.1239	1.1239	100.0	Pass
10	0.9224	0.9224	100.0	Pass
11	1.7088	1.7088	100.0	Pass
12	1.1680	1.1680	100.0	Pass
13	1.6077	1.6077	100.0	Pass
14	0.9392	0.9392	100.0	Pass
15	1.1029	1.1029	100.0	Pass
16	1.4628	1.4628	100.0	Pass
17	1.3460	1.3460	100.0	Pass
18	2.1447	2.1447	100.0	Pass
19	2.6443	2.6443	100.0	Pass
20	2.2836	2.2836	100.0	Pass
21	2.7551	2.7551	100.0	Pass
22	1.6554	1.6554	100.0	Pass
23	2.6815	2.6815	100.0	Pass
24	2.3648	2.3648	100.0	Pass
25	2.1185	2.1185	100.0	Pass
26	2.5560	2.5560	100.0	Pass
27	2.1870	2.1870	100.0	Pass
28	2.0343	2.0343	100.0	Pass
29	1.7296	1.7296	100.0	Pass
30	2.5246	2.5246	100.0	Pass
31	2.1431	2.1431	100.0	Pass
Nov1	2.6906	2.6906	100.0	Pass
2	3.2278	3.2278	100.0	Pass
3	2.5493	2.5493	100.0	Pass
4	2.5678	2.5678	100.0	Pass
5	2.8410	2.8410	100.0	Pass
6	2.3838	2.3838	100.0	Pass
7	2.1621	2.1621	100.0	Pass
8	2.7630	2.7630	100.0	Pass
9	3.2649	3.2649	100.0	Pass
10	2.8123	2.8123	100.0	Pass
11	3.1351	3.1351	100.0	Pass
12	2.9012	2.9012	100.0	Pass
13	2.2014	2.2014	100.0	Pass
14	2.5551	2.5551	100.0	Pass
15	2.8557	2.8557	100.0	Pass
16	2.9882	2.9882	100.0	Pass
17	2.7374	2.7374	100.0	Pass
18	3.9985	3.9985	100.0	Pass
19	3.5872	3.5872	100.0	Pass
20	2.4006	2.4006	100.0	Pass
21	3.7316	3.7316	100.0	Pass
22	4.3931	4.3931	100.0	Pass
23	3.3801	3.3801	100.0	Pass
24	3.8559	3.8559	100.0	Pass
25	2.5739	2.5739	100.0	Pass

26	2.0869	2.0869	100.0	Pass
27	2.5137	2.5137	100.0	Pass
28	2.4020	2.4020	100.0	Pass
29	3.9487	3.9487	100.0	Pass
30	3.1815	3.1815	100.0	Pass
Dec1	3.5017	3.5017	100.0	Pass
2	3.3970	3.3970	100.0	Pass
3	2.2034	2.2034	100.0	Pass
4	2.4242	2.4242	100.0	Pass
5	2.0889	2.0889	100.0	Pass
6	1.8100	1.8100	100.0	Pass
7	2.5840	2.5840	100.0	Pass
8	3.2445	3.2445	100.0	Pass
9	3.2245	3.2245	100.0	Pass
10	3.4901	3.4901	100.0	Pass
11	2.5570	2.5570	100.0	Pass
12	2.7641	2.7641	100.0	Pass
13	4.0723	4.0723	100.0	Pass
14	2.8633	2.8633	100.0	Pass
15	3.7106	3.7106	100.0	Pass
16	2.5282	2.5282	100.0	Pass
17	2.9955	2.9955	100.0	Pass
18	2.4755	2.4755	100.0	Pass
19	2.8848	2.8848	100.0	Pass
20	2.8322	2.8322	100.0	Pass
21	3.1196	3.1196	100.0	Pass
22	3.0619	3.0619	100.0	Pass
23	3.3293	3.3293	100.0	Pass
24	3.6816	3.6816	100.0	Pass
25	3.2098	3.2098	100.0	Pass
26	2.9369	2.9369	100.0	Pass
27	1.9806	1.9806	100.0	Pass
28	3.0924	3.0924	100.0	Pass
29	2.0665	2.0665	100.0	Pass
30	2.1483	2.1483	100.0	Pass
31	3.5809	3.5809	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #9

Total Pervious Area:0
Total Impervious Area:0.129

Mitigated Landuse Totals for POC #9

Total Pervious Area:0
Total Impervious Area:0.129

Flow Frequency Return Periods for Predeveloped. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.094421

5 year	0.111207
10 year	0.120463
25 year	0.130644
50 year	0.137369
100 year	0.143503

Flow Frequency Return Periods for Mitigated. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.094421
5 year	0.111207
10 year	0.120463
25 year	0.130644
50 year	0.137369
100 year	0.143503

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #9

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.097	0.097
1957	0.123	0.123
1958	0.097	0.097
1959	0.093	0.093
1960	0.096	0.096
1961	0.083	0.083
1962	0.127	0.127
1963	0.117	0.117
1964	0.104	0.104
1965	0.102	0.102
1966	0.099	0.099
1967	0.065	0.065
1968	0.096	0.096
1969	0.090	0.090
1970	0.090	0.090
1971	0.130	0.130
1972	0.109	0.109
1973	0.105	0.105
1974	0.098	0.098
1975	0.088	0.088
1976	0.107	0.107
1977	0.079	0.079
1978	0.138	0.138
1979	0.086	0.086
1980	0.080	0.080
1981	0.103	0.103
1982	0.118	0.118
1983	0.093	0.093
1984	0.085	0.085
1985	0.068	0.068
1986	0.103	0.103
1987	0.072	0.072
1988	0.109	0.109
1989	0.093	0.093
1990	0.118	0.118
1991	0.083	0.083
1992	0.064	0.064
1993	0.072	0.072

1994	0.088	0.088
1995	0.090	0.090
1996	0.109	0.109
1997	0.103	0.103
1998	0.067	0.067
1999	0.081	0.081
2000	0.077	0.077
2001	0.076	0.076
2002	0.120	0.120
2003	0.124	0.124
2004	0.116	0.116
2005	0.093	0.093
2006	0.094	0.094
2007	0.110	0.110
2008	0.061	0.061
2009	0.058	0.058

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #9

Rank	Predeveloped	Mitigated
1	0.1377	0.1377
2	0.1302	0.1302
3	0.1269	0.1269
4	0.1235	0.1235
5	0.1233	0.1233
6	0.1199	0.1199
7	0.1181	0.1181
8	0.1177	0.1177
9	0.1173	0.1173
10	0.1160	0.1160
11	0.1101	0.1101
12	0.1091	0.1091
13	0.1090	0.1090
14	0.1088	0.1088
15	0.1074	0.1074
16	0.1052	0.1052
17	0.1039	0.1039
18	0.1031	0.1031
19	0.1027	0.1027
20	0.1026	0.1026
21	0.1021	0.1021
22	0.0987	0.0987
23	0.0981	0.0981
24	0.0970	0.0970
25	0.0968	0.0968
26	0.0962	0.0962
27	0.0962	0.0962
28	0.0942	0.0942
29	0.0931	0.0931
30	0.0930	0.0930
31	0.0929	0.0929
32	0.0927	0.0927
33	0.0904	0.0904
34	0.0903	0.0903
35	0.0896	0.0896
36	0.0884	0.0884

37	0.0876	0.0876
38	0.0859	0.0859
39	0.0852	0.0852
40	0.0832	0.0832
41	0.0828	0.0828
42	0.0813	0.0813
43	0.0802	0.0802
44	0.0793	0.0793
45	0.0771	0.0771
46	0.0756	0.0756
47	0.0724	0.0724
48	0.0720	0.0720
49	0.0681	0.0681
50	0.0673	0.0673
51	0.0651	0.0651
52	0.0645	0.0645
53	0.0605	0.0605
54	0.0577	0.0577

Stream Protection Duration

POC #9

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0472	1214	1214	100	Pass
0.0481	1129	1129	100	Pass
0.0490	1060	1060	100	Pass
0.0499	985	985	100	Pass
0.0509	925	925	100	Pass
0.0518	862	862	100	Pass
0.0527	793	793	100	Pass
0.0536	734	734	100	Pass
0.0545	681	681	100	Pass
0.0554	631	631	100	Pass
0.0563	578	578	100	Pass
0.0572	539	539	100	Pass
0.0581	499	499	100	Pass
0.0590	467	467	100	Pass
0.0600	424	424	100	Pass
0.0609	394	394	100	Pass
0.0618	367	367	100	Pass
0.0627	345	345	100	Pass
0.0636	326	326	100	Pass
0.0645	305	305	100	Pass
0.0654	288	288	100	Pass
0.0663	272	272	100	Pass
0.0672	255	255	100	Pass
0.0682	236	236	100	Pass
0.0691	226	226	100	Pass
0.0700	217	217	100	Pass
0.0709	210	210	100	Pass
0.0718	196	196	100	Pass
0.0727	189	189	100	Pass
0.0736	178	178	100	Pass

0.0745	169	169	100	Pass
0.0754	161	161	100	Pass
0.0764	154	154	100	Pass
0.0773	141	141	100	Pass
0.0782	131	131	100	Pass
0.0791	123	123	100	Pass
0.0800	115	115	100	Pass
0.0809	110	110	100	Pass
0.0818	106	106	100	Pass
0.0827	102	102	100	Pass
0.0836	96	96	100	Pass
0.0845	94	94	100	Pass
0.0855	86	86	100	Pass
0.0864	80	80	100	Pass
0.0873	76	76	100	Pass
0.0882	71	71	100	Pass
0.0891	68	68	100	Pass
0.0900	63	63	100	Pass
0.0909	60	60	100	Pass
0.0918	56	56	100	Pass
0.0927	55	55	100	Pass
0.0937	50	50	100	Pass
0.0946	48	48	100	Pass
0.0955	47	47	100	Pass
0.0964	45	45	100	Pass
0.0973	39	39	100	Pass
0.0982	35	35	100	Pass
0.0991	34	34	100	Pass
0.1000	34	34	100	Pass
0.1009	33	33	100	Pass
0.1019	32	32	100	Pass
0.1028	30	30	100	Pass
0.1037	27	27	100	Pass
0.1046	26	26	100	Pass
0.1055	24	24	100	Pass
0.1064	24	24	100	Pass
0.1073	24	24	100	Pass
0.1082	23	23	100	Pass
0.1091	18	18	100	Pass
0.1100	17	17	100	Pass
0.1110	15	15	100	Pass
0.1119	14	14	100	Pass
0.1128	13	13	100	Pass
0.1137	12	12	100	Pass
0.1146	12	12	100	Pass
0.1155	12	12	100	Pass
0.1164	11	11	100	Pass
0.1173	9	9	100	Pass
0.1182	7	7	100	Pass
0.1192	7	7	100	Pass
0.1201	6	6	100	Pass
0.1210	6	6	100	Pass
0.1219	6	6	100	Pass
0.1228	5	5	100	Pass
0.1237	3	3	100	Pass
0.1246	3	3	100	Pass
0.1255	3	3	100	Pass

0.1264	3	3	100	Pass
0.1274	2	2	100	Pass
0.1283	2	2	100	Pass
0.1292	2	2	100	Pass
0.1301	2	2	100	Pass
0.1310	1	1	100	Pass
0.1319	1	1	100	Pass
0.1328	1	1	100	Pass
0.1337	1	1	100	Pass
0.1346	1	1	100	Pass
0.1355	1	1	100	Pass
0.1365	1	1	100	Pass
0.1374	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #9
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 9
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	5.6868	5.6868	100.0	Pass
Feb	4.3419	4.3419	100.0	Pass
Mar	3.8752	3.8752	100.0	Pass
Apr	2.2049	2.2049	100.0	Pass
May	1.2432	1.2432	100.0	Pass
Jun	0.8435	0.8435	100.0	Pass
Jul	0.4259	0.4259	100.0	Pass
Aug	0.6407	0.6407	100.0	Pass
Sep	1.4085	1.4085	100.0	Pass
Oct	3.3286	3.3286	100.0	Pass
Nov	5.4652	5.4652	100.0	Pass
Dec	5.4809	5.4809	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.1832	0.1832	100.0	Pass
2	0.1406	0.1406	100.0	Pass
3	0.1850	0.1850	100.0	Pass
4	0.2211	0.2211	100.0	Pass
5	0.1525	0.1525	100.0	Pass
6	0.2425	0.2425	100.0	Pass
7	0.1786	0.1786	100.0	Pass
8	0.1817	0.1817	100.0	Pass
9	0.1975	0.1975	100.0	Pass
10	0.1884	0.1884	100.0	Pass
11	0.2345	0.2345	100.0	Pass
12	0.1776	0.1776	100.0	Pass
13	0.2319	0.2319	100.0	Pass
14	0.2286	0.2286	100.0	Pass
15	0.2060	0.2060	100.0	Pass

16	0.1636	0.1636	100.0	Pass
17	0.1587	0.1587	100.0	Pass
18	0.1401	0.1401	100.0	Pass
19	0.1429	0.1429	100.0	Pass
20	0.0889	0.0889	100.0	Pass
21	0.1932	0.1932	100.0	Pass
22	0.2265	0.2265	100.0	Pass
23	0.2501	0.2501	100.0	Pass
24	0.1613	0.1613	100.0	Pass
25	0.1367	0.1367	100.0	Pass
26	0.1236	0.1236	100.0	Pass
27	0.1652	0.1652	100.0	Pass
28	0.2119	0.2119	100.0	Pass
29	0.1551	0.1551	100.0	Pass
30	0.1897	0.1897	100.0	Pass
31	0.1055	0.1055	100.0	Pass
Feb1	0.1264	0.1264	100.0	Pass
2	0.1170	0.1170	100.0	Pass
3	0.1043	0.1043	100.0	Pass
4	0.0966	0.0966	100.0	Pass
5	0.1892	0.1892	100.0	Pass
6	0.0850	0.0850	100.0	Pass
7	0.1358	0.1358	100.0	Pass
8	0.0994	0.0994	100.0	Pass
9	0.1252	0.1252	100.0	Pass
10	0.1687	0.1687	100.0	Pass
11	0.2196	0.2196	100.0	Pass
12	0.1645	0.1645	100.0	Pass
13	0.1809	0.1809	100.0	Pass
14	0.2606	0.2606	100.0	Pass
15	0.1774	0.1774	100.0	Pass
16	0.2436	0.2436	100.0	Pass
17	0.2087	0.2087	100.0	Pass
18	0.1578	0.1578	100.0	Pass
19	0.1385	0.1385	100.0	Pass
20	0.1355	0.1355	100.0	Pass
21	0.1111	0.1111	100.0	Pass
22	0.1703	0.1703	100.0	Pass
23	0.1597	0.1597	100.0	Pass
24	0.1764	0.1764	100.0	Pass
25	0.1548	0.1548	100.0	Pass
26	0.1510	0.1510	100.0	Pass
27	0.1319	0.1319	100.0	Pass
28	0.1817	0.1817	100.0	Pass
29	0.1286	0.1286	100.0	Pass
Mar1	0.1281	0.1281	100.0	Pass
2	0.1027	0.1027	100.0	Pass
3	0.1520	0.1520	100.0	Pass
4	0.1579	0.1579	100.0	Pass
5	0.1209	0.1209	100.0	Pass
6	0.1552	0.1552	100.0	Pass
7	0.1550	0.1550	100.0	Pass
8	0.1472	0.1472	100.0	Pass
9	0.1477	0.1477	100.0	Pass
10	0.1260	0.1260	100.0	Pass
11	0.1391	0.1391	100.0	Pass
12	0.1229	0.1229	100.0	Pass

13	0.1516	0.1516	100.0	Pass
14	0.1165	0.1165	100.0	Pass
15	0.0942	0.0942	100.0	Pass
16	0.0928	0.0928	100.0	Pass
17	0.1283	0.1283	100.0	Pass
18	0.0744	0.0744	100.0	Pass
19	0.1198	0.1198	100.0	Pass
20	0.0937	0.0937	100.0	Pass
21	0.1654	0.1654	100.0	Pass
22	0.1839	0.1839	100.0	Pass
23	0.1443	0.1443	100.0	Pass
24	0.0868	0.0868	100.0	Pass
25	0.1479	0.1479	100.0	Pass
26	0.1014	0.1014	100.0	Pass
27	0.1008	0.1008	100.0	Pass
28	0.1123	0.1123	100.0	Pass
29	0.1037	0.1037	100.0	Pass
30	0.0747	0.0747	100.0	Pass
31	0.0606	0.0606	100.0	Pass
Apr1	0.0669	0.0669	100.0	Pass
2	0.0769	0.0769	100.0	Pass
3	0.1102	0.1102	100.0	Pass
4	0.0958	0.0958	100.0	Pass
5	0.1010	0.1010	100.0	Pass
6	0.0507	0.0507	100.0	Pass
7	0.0942	0.0942	100.0	Pass
8	0.0920	0.0920	100.0	Pass
9	0.0828	0.0828	100.0	Pass
10	0.0794	0.0794	100.0	Pass
11	0.1162	0.1162	100.0	Pass
12	0.0950	0.0950	100.0	Pass
13	0.1009	0.1009	100.0	Pass
14	0.0836	0.0836	100.0	Pass
15	0.0895	0.0895	100.0	Pass
16	0.0464	0.0464	100.0	Pass
17	0.0705	0.0705	100.0	Pass
18	0.0820	0.0820	100.0	Pass
19	0.0395	0.0395	100.0	Pass
20	0.0413	0.0413	100.0	Pass
21	0.0745	0.0745	100.0	Pass
22	0.0610	0.0610	100.0	Pass
23	0.0516	0.0516	100.0	Pass
24	0.0410	0.0410	100.0	Pass
25	0.0521	0.0521	100.0	Pass
26	0.0869	0.0869	100.0	Pass
27	0.0653	0.0653	100.0	Pass
28	0.0677	0.0677	100.0	Pass
29	0.0297	0.0297	100.0	Pass
30	0.0455	0.0455	100.0	Pass
May1	0.0735	0.0735	100.0	Pass
2	0.0495	0.0495	100.0	Pass
3	0.0559	0.0559	100.0	Pass
4	0.0416	0.0416	100.0	Pass
5	0.0411	0.0411	100.0	Pass
6	0.0350	0.0350	100.0	Pass
7	0.0477	0.0477	100.0	Pass
8	0.0275	0.0275	100.0	Pass

9	0.0415	0.0415	100.0	Pass
10	0.0332	0.0332	100.0	Pass
11	0.0315	0.0315	100.0	Pass
12	0.0449	0.0449	100.0	Pass
13	0.0482	0.0482	100.0	Pass
14	0.0469	0.0469	100.0	Pass
15	0.0291	0.0291	100.0	Pass
16	0.0412	0.0412	100.0	Pass
17	0.0323	0.0323	100.0	Pass
18	0.0560	0.0560	100.0	Pass
19	0.0272	0.0272	100.0	Pass
20	0.0280	0.0280	100.0	Pass
21	0.0290	0.0290	100.0	Pass
22	0.0359	0.0359	100.0	Pass
23	0.0306	0.0306	100.0	Pass
24	0.0322	0.0322	100.0	Pass
25	0.0264	0.0264	100.0	Pass
26	0.0482	0.0482	100.0	Pass
27	0.0363	0.0363	100.0	Pass
28	0.0398	0.0398	100.0	Pass
29	0.0541	0.0541	100.0	Pass
30	0.0335	0.0335	100.0	Pass
31	0.0369	0.0369	100.0	Pass
Jun1	0.0268	0.0268	100.0	Pass
2	0.0489	0.0489	100.0	Pass
3	0.0453	0.0453	100.0	Pass
4	0.0323	0.0323	100.0	Pass
5	0.0552	0.0552	100.0	Pass
6	0.0180	0.0180	100.0	Pass
7	0.0304	0.0304	100.0	Pass
8	0.0449	0.0449	100.0	Pass
9	0.0331	0.0331	100.0	Pass
10	0.0323	0.0323	100.0	Pass
11	0.0226	0.0226	100.0	Pass
12	0.0293	0.0293	100.0	Pass
13	0.0464	0.0464	100.0	Pass
14	0.0171	0.0171	100.0	Pass
15	0.0375	0.0375	100.0	Pass
16	0.0146	0.0146	100.0	Pass
17	0.0224	0.0224	100.0	Pass
18	0.0142	0.0142	100.0	Pass
19	0.0190	0.0190	100.0	Pass
20	0.0216	0.0216	100.0	Pass
21	0.0199	0.0199	100.0	Pass
22	0.0107	0.0107	100.0	Pass
23	0.0606	0.0606	100.0	Pass
24	0.0128	0.0128	100.0	Pass
25	0.0258	0.0258	100.0	Pass
26	0.0154	0.0154	100.0	Pass
27	0.0146	0.0146	100.0	Pass
28	0.0151	0.0151	100.0	Pass
29	0.0199	0.0199	100.0	Pass
30	0.0416	0.0416	100.0	Pass
Jul1	0.0093	0.0093	100.0	Pass
2	0.0088	0.0088	100.0	Pass
3	0.0102	0.0102	100.0	Pass
4	0.0256	0.0256	100.0	Pass

5	0.0185	0.0185	100.0	Pass
6	0.0140	0.0140	100.0	Pass
7	0.0263	0.0263	100.0	Pass
8	0.0139	0.0139	100.0	Pass
9	0.0312	0.0312	100.0	Pass
10	0.0195	0.0195	100.0	Pass
11	0.0390	0.0390	100.0	Pass
12	0.0165	0.0165	100.0	Pass
13	0.0135	0.0135	100.0	Pass
14	0.0227	0.0227	100.0	Pass
15	0.0089	0.0089	100.0	Pass
16	0.0056	0.0056	100.0	Pass
17	0.0200	0.0200	100.0	Pass
18	0.0058	0.0058	100.0	Pass
19	0.0085	0.0085	100.0	Pass
20	0.0151	0.0151	100.0	Pass
21	0.0113	0.0113	100.0	Pass
22	0.0003	0.0003	100.0	Pass
23	0.0033	0.0033	100.0	Pass
24	0.0039	0.0039	100.0	Pass
25	0.0092	0.0092	100.0	Pass
26	0.0041	0.0041	100.0	Pass
27	0.0058	0.0058	100.0	Pass
28	0.0048	0.0048	100.0	Pass
29	0.0031	0.0031	100.0	Pass
30	0.0054	0.0054	100.0	Pass
31	0.0061	0.0061	100.0	Pass
Aug1	0.0247	0.0247	100.0	Pass
2	0.0080	0.0080	100.0	Pass
3	0.0031	0.0031	100.0	Pass
4	0.0031	0.0031	100.0	Pass
5	0.0277	0.0277	100.0	Pass
6	0.0184	0.0184	100.0	Pass
7	0.0062	0.0062	100.0	Pass
8	0.0067	0.0067	100.0	Pass
9	0.0005	0.0005	100.0	Pass
10	0.0038	0.0038	100.0	Pass
11	0.0180	0.0180	100.0	Pass
12	0.0156	0.0156	100.0	Pass
13	0.0191	0.0191	100.0	Pass
14	0.0110	0.0110	100.0	Pass
15	0.0098	0.0098	100.0	Pass
16	0.0091	0.0091	100.0	Pass
17	0.0182	0.0182	100.0	Pass
18	0.0343	0.0343	100.0	Pass
19	0.0086	0.0086	100.0	Pass
20	0.0266	0.0266	100.0	Pass
21	0.0235	0.0235	100.0	Pass
22	0.0465	0.0465	100.0	Pass
23	0.0419	0.0419	100.0	Pass
24	0.0337	0.0337	100.0	Pass
25	0.0127	0.0127	100.0	Pass
26	0.0441	0.0441	100.0	Pass
27	0.0440	0.0440	100.0	Pass
28	0.0429	0.0429	100.0	Pass
29	0.0272	0.0272	100.0	Pass
30	0.0457	0.0457	100.0	Pass

31	0.0711	0.0711	100.0	Pass
Sep1	0.0240	0.0240	100.0	Pass
2	0.0261	0.0261	100.0	Pass
3	0.0297	0.0297	100.0	Pass
4	0.0384	0.0384	100.0	Pass
5	0.0322	0.0322	100.0	Pass
6	0.0222	0.0222	100.0	Pass
7	0.0450	0.0450	100.0	Pass
8	0.0274	0.0274	100.0	Pass
9	0.0738	0.0738	100.0	Pass
10	0.0151	0.0151	100.0	Pass
11	0.0139	0.0139	100.0	Pass
12	0.0395	0.0395	100.0	Pass
13	0.0716	0.0716	100.0	Pass
14	0.0436	0.0436	100.0	Pass
15	0.0684	0.0684	100.0	Pass
16	0.0695	0.0695	100.0	Pass
17	0.0773	0.0773	100.0	Pass
18	0.0688	0.0688	100.0	Pass
19	0.0725	0.0725	100.0	Pass
20	0.0502	0.0502	100.0	Pass
21	0.0715	0.0715	100.0	Pass
22	0.0565	0.0565	100.0	Pass
23	0.0454	0.0454	100.0	Pass
24	0.0323	0.0323	100.0	Pass
25	0.0361	0.0361	100.0	Pass
26	0.0363	0.0363	100.0	Pass
27	0.0489	0.0489	100.0	Pass
28	0.0434	0.0434	100.0	Pass
29	0.0580	0.0580	100.0	Pass
30	0.0397	0.0397	100.0	Pass
Oct1	0.0279	0.0279	100.0	Pass
2	0.0761	0.0761	100.0	Pass
3	0.0663	0.0663	100.0	Pass
4	0.0804	0.0804	100.0	Pass
5	0.0851	0.0851	100.0	Pass
6	0.0938	0.0938	100.0	Pass
7	0.1195	0.1195	100.0	Pass
8	0.0942	0.0942	100.0	Pass
9	0.0718	0.0718	100.0	Pass
10	0.0586	0.0586	100.0	Pass
11	0.1186	0.1186	100.0	Pass
12	0.0757	0.0757	100.0	Pass
13	0.1099	0.1099	100.0	Pass
14	0.0574	0.0574	100.0	Pass
15	0.0718	0.0718	100.0	Pass
16	0.0966	0.0966	100.0	Pass
17	0.0878	0.0878	100.0	Pass
18	0.1429	0.1429	100.0	Pass
19	0.1740	0.1740	100.0	Pass
20	0.1484	0.1484	100.0	Pass
21	0.1799	0.1799	100.0	Pass
22	0.0976	0.0976	100.0	Pass
23	0.1747	0.1747	100.0	Pass
24	0.1504	0.1504	100.0	Pass
25	0.1328	0.1328	100.0	Pass
26	0.1647	0.1647	100.0	Pass

27	0.1356	0.1356	100.0	Pass
28	0.1268	0.1268	100.0	Pass
29	0.1054	0.1054	100.0	Pass
30	0.1652	0.1652	100.0	Pass
31	0.1335	0.1335	100.0	Pass
Nov1	0.1713	0.1713	100.0	Pass
2	0.2123	0.2123	100.0	Pass
3	0.1550	0.1550	100.0	Pass
4	0.1614	0.1614	100.0	Pass
5	0.1791	0.1791	100.0	Pass
6	0.1449	0.1449	100.0	Pass
7	0.1317	0.1317	100.0	Pass
8	0.1781	0.1781	100.0	Pass
9	0.2096	0.2096	100.0	Pass
10	0.1747	0.1747	100.0	Pass
11	0.1977	0.1977	100.0	Pass
12	0.1824	0.1824	100.0	Pass
13	0.1290	0.1290	100.0	Pass
14	0.1600	0.1600	100.0	Pass
15	0.1802	0.1802	100.0	Pass
16	0.1892	0.1892	100.0	Pass
17	0.1694	0.1694	100.0	Pass
18	0.2568	0.2568	100.0	Pass
19	0.2224	0.2224	100.0	Pass
20	0.1386	0.1386	100.0	Pass
21	0.2360	0.2360	100.0	Pass
22	0.2840	0.2840	100.0	Pass
23	0.2032	0.2032	100.0	Pass
24	0.2387	0.2387	100.0	Pass
25	0.1467	0.1467	100.0	Pass
26	0.1191	0.1191	100.0	Pass
27	0.1561	0.1561	100.0	Pass
28	0.1488	0.1488	100.0	Pass
29	0.2562	0.2562	100.0	Pass
30	0.1939	0.1939	100.0	Pass
Dec1	0.2184	0.2184	100.0	Pass
2	0.2073	0.2073	100.0	Pass
3	0.1258	0.1258	100.0	Pass
4	0.1475	0.1475	100.0	Pass
5	0.1232	0.1232	100.0	Pass
6	0.1091	0.1091	100.0	Pass
7	0.1655	0.1655	100.0	Pass
8	0.2084	0.2084	100.0	Pass
9	0.2011	0.2011	100.0	Pass
10	0.2159	0.2159	100.0	Pass
11	0.1523	0.1523	100.0	Pass
12	0.1697	0.1697	100.0	Pass
13	0.2631	0.2631	100.0	Pass
14	0.1679	0.1679	100.0	Pass
15	0.2340	0.2340	100.0	Pass
16	0.1457	0.1457	100.0	Pass
17	0.1847	0.1847	100.0	Pass
18	0.1483	0.1483	100.0	Pass
19	0.1817	0.1817	100.0	Pass
20	0.1734	0.1734	100.0	Pass
21	0.1910	0.1910	100.0	Pass
22	0.1891	0.1891	100.0	Pass

23	0.2073	0.2073	100.0	Pass
24	0.2324	0.2324	100.0	Pass
25	0.1928	0.1928	100.0	Pass
26	0.1748	0.1748	100.0	Pass
27	0.1131	0.1131	100.0	Pass
28	0.1956	0.1956	100.0	Pass
29	0.1190	0.1190	100.0	Pass
30	0.1301	0.1301	100.0	Pass
31	0.2305	0.2305	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #10
Total Pervious Area:0.404
Total Impervious Area:0.514

Mitigated Landuse Totals for POC #10
Total Pervious Area:0.404
Total Impervious Area:0.514

Flow Frequency Return Periods for Predeveloped. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.539625
5 year	0.660844
10 year	0.727894
25 year	0.801447
50 year	0.849779
100 year	0.893612

Flow Frequency Return Periods for Mitigated. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.539625
5 year	0.660844
10 year	0.727894
25 year	0.801447
50 year	0.849779
100 year	0.893612

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #10

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.607	0.607
1957	0.723	0.723
1958	0.533	0.533
1959	0.569	0.569
1960	0.600	0.600
1961	0.418	0.418
1962	0.796	0.796
1963	0.722	0.722

1964	0.592	0.592
1965	0.610	0.610
1966	0.611	0.611
1967	0.356	0.356
1968	0.577	0.577
1969	0.561	0.561
1970	0.473	0.473
1971	0.804	0.804
1972	0.692	0.692
1973	0.605	0.605
1974	0.610	0.610
1975	0.519	0.519
1976	0.647	0.647
1977	0.448	0.448
1978	0.800	0.800
1979	0.509	0.509
1980	0.454	0.454
1981	0.582	0.582
1982	0.673	0.673
1983	0.533	0.533
1984	0.505	0.505
1985	0.335	0.335
1986	0.610	0.610
1987	0.418	0.418
1988	0.649	0.649
1989	0.532	0.532
1990	0.726	0.726
1991	0.435	0.435
1992	0.332	0.332
1993	0.365	0.365
1994	0.504	0.504
1995	0.418	0.418
1996	0.526	0.526
1997	0.578	0.578
1998	0.343	0.343
1999	0.456	0.456
2000	0.423	0.423
2001	0.381	0.381
2002	0.515	0.515
2003	0.778	0.778
2004	0.707	0.707
2005	0.546	0.546
2006	0.561	0.561
2007	0.676	0.676
2008	0.314	0.314
2009	0.289	0.289

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #10

Rank	Predeveloped	Mitigated
1	0.8041	0.8041
2	0.7999	0.7999
3	0.7962	0.7962
4	0.7780	0.7780
5	0.7261	0.7261
6	0.7229	0.7229

7	0.7217	0.7217
8	0.7069	0.7069
9	0.6918	0.6918
10	0.6764	0.6764
11	0.6733	0.6733
12	0.6490	0.6490
13	0.6469	0.6469
14	0.6112	0.6112
15	0.6105	0.6105
16	0.6102	0.6102
17	0.6102	0.6102
18	0.6074	0.6074
19	0.6053	0.6053
20	0.6003	0.6003
21	0.5920	0.5920
22	0.5817	0.5817
23	0.5782	0.5782
24	0.5770	0.5770
25	0.5695	0.5695
26	0.5613	0.5613
27	0.5606	0.5606
28	0.5459	0.5459
29	0.5333	0.5333
30	0.5332	0.5332
31	0.5324	0.5324
32	0.5258	0.5258
33	0.5190	0.5190
34	0.5151	0.5151
35	0.5094	0.5094
36	0.5047	0.5047
37	0.5043	0.5043
38	0.4734	0.4734
39	0.4564	0.4564
40	0.4536	0.4536
41	0.4480	0.4480
42	0.4353	0.4353
43	0.4230	0.4230
44	0.4182	0.4182
45	0.4179	0.4179
46	0.4178	0.4178
47	0.3808	0.3808
48	0.3650	0.3650
49	0.3557	0.3557
50	0.3426	0.3426
51	0.3352	0.3352
52	0.3320	0.3320
53	0.3136	0.3136
54	0.2895	0.2895

Stream Protection Duration

POC #10

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.2698	824	824	100	Pass
0.2757	772	772	100	Pass
0.2815	727	727	100	Pass
0.2874	676	676	100	Pass
0.2932	623	623	100	Pass
0.2991	578	578	100	Pass
0.3050	552	552	100	Pass
0.3108	515	515	100	Pass
0.3167	469	469	100	Pass
0.3225	443	443	100	Pass
0.3284	407	407	100	Pass
0.3343	379	379	100	Pass
0.3401	358	358	100	Pass
0.3460	337	337	100	Pass
0.3518	312	312	100	Pass
0.3577	290	290	100	Pass
0.3635	267	267	100	Pass
0.3694	250	250	100	Pass
0.3753	236	236	100	Pass
0.3811	221	221	100	Pass
0.3870	213	213	100	Pass
0.3928	199	199	100	Pass
0.3987	191	191	100	Pass
0.4046	181	181	100	Pass
0.4104	171	171	100	Pass
0.4163	159	159	100	Pass
0.4221	152	152	100	Pass
0.4280	147	147	100	Pass
0.4338	140	140	100	Pass
0.4397	133	133	100	Pass
0.4456	130	130	100	Pass
0.4514	117	117	100	Pass
0.4573	109	109	100	Pass
0.4631	103	103	100	Pass
0.4690	96	96	100	Pass
0.4749	93	93	100	Pass
0.4807	90	90	100	Pass
0.4866	89	89	100	Pass
0.4924	86	86	100	Pass
0.4983	80	80	100	Pass
0.5041	79	79	100	Pass
0.5100	73	73	100	Pass
0.5159	71	71	100	Pass
0.5217	66	66	100	Pass
0.5276	62	62	100	Pass
0.5334	58	58	100	Pass
0.5393	50	50	100	Pass
0.5452	49	49	100	Pass
0.5510	48	48	100	Pass
0.5569	47	47	100	Pass
0.5627	44	44	100	Pass
0.5686	43	43	100	Pass
0.5744	41	41	100	Pass
0.5803	39	39	100	Pass
0.5862	38	38	100	Pass
0.5920	37	37	100	Pass
0.5979	35	35	100	Pass

0.6037	33	33	100	Pass
0.6096	29	29	100	Pass
0.6154	24	24	100	Pass
0.6213	24	24	100	Pass
0.6272	23	23	100	Pass
0.6330	22	22	100	Pass
0.6389	20	20	100	Pass
0.6447	20	20	100	Pass
0.6506	17	17	100	Pass
0.6565	17	17	100	Pass
0.6623	15	15	100	Pass
0.6682	15	15	100	Pass
0.6740	13	13	100	Pass
0.6799	11	11	100	Pass
0.6857	11	11	100	Pass
0.6916	11	11	100	Pass
0.6975	10	10	100	Pass
0.7033	10	10	100	Pass
0.7092	9	9	100	Pass
0.7150	9	9	100	Pass
0.7209	9	9	100	Pass
0.7268	7	7	100	Pass
0.7326	6	6	100	Pass
0.7385	6	6	100	Pass
0.7443	5	5	100	Pass
0.7502	5	5	100	Pass
0.7560	5	5	100	Pass
0.7619	5	5	100	Pass
0.7678	4	4	100	Pass
0.7736	4	4	100	Pass
0.7795	3	3	100	Pass
0.7853	3	3	100	Pass
0.7912	3	3	100	Pass
0.7971	2	2	100	Pass
0.8029	1	1	100	Pass
0.8088	0	0	100	Pass
0.8146	0	0	0	Pass
0.8205	0	0	0	Pass
0.8263	0	0	0	Pass
0.8322	0	0	0	Pass
0.8381	0	0	0	Pass
0.8439	0	0	0	Pass
0.8498	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #10
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 10
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	36.8685	36.8685	100.0	Pass
Feb	28.4090	28.4090	100.0	Pass
Mar	25.2034	25.2034	100.0	Pass
Apr	13.8774	13.8774	100.0	Pass
May	7.0702	7.0702	100.0	Pass
Jun	4.5563	4.5563	100.0	Pass
Jul	2.1712	2.1712	100.0	Pass
Aug	3.1433	3.1433	100.0	Pass
Sep	7.5359	7.5359	100.0	Pass
Oct	19.2849	19.2849	100.0	Pass
Nov	34.3699	34.3699	100.0	Pass
Dec	35.5810	35.5810	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.1743	1.1743	100.0	Pass
2	0.9582	0.9582	100.0	Pass
3	1.1670	1.1670	100.0	Pass
4	1.3343	1.3343	100.0	Pass
5	1.0442	1.0442	100.0	Pass
6	1.4521	1.4521	100.0	Pass
7	1.2063	1.2063	100.0	Pass
8	1.1927	1.1927	100.0	Pass
9	1.2397	1.2397	100.0	Pass
10	1.2366	1.2366	100.0	Pass
11	1.4771	1.4771	100.0	Pass
12	1.2096	1.2096	100.0	Pass
13	1.4613	1.4613	100.0	Pass
14	1.4746	1.4746	100.0	Pass
15	1.3679	1.3679	100.0	Pass
16	1.1693	1.1693	100.0	Pass
17	1.1041	1.1041	100.0	Pass
18	0.9782	0.9782	100.0	Pass
19	0.9504	0.9504	100.0	Pass
20	0.6721	0.6721	100.0	Pass
21	1.0898	1.0898	100.0	Pass
22	1.3759	1.3759	100.0	Pass
23	1.5665	1.5665	100.0	Pass
24	1.1468	1.1468	100.0	Pass
25	0.9791	0.9791	100.0	Pass
26	0.8830	0.8830	100.0	Pass
27	1.0400	1.0400	100.0	Pass
28	1.3017	1.3017	100.0	Pass
29	1.0536	1.0536	100.0	Pass
30	1.1974	1.1974	100.0	Pass
31	0.7927	0.7927	100.0	Pass
Feb1	0.8517	0.8517	100.0	Pass
2	0.7671	0.7671	100.0	Pass
3	0.7047	0.7047	100.0	Pass
4	0.6523	0.6523	100.0	Pass
5	1.1046	1.1046	100.0	Pass
6	0.6495	0.6495	100.0	Pass
7	0.8411	0.8411	100.0	Pass
8	0.6754	0.6754	100.0	Pass
9	0.7658	0.7658	100.0	Pass
10	0.9961	0.9961	100.0	Pass
11	1.3291	1.3291	100.0	Pass

12	1.1097	1.1097	100.0	Pass
13	1.1497	1.1497	100.0	Pass
14	1.5479	1.5479	100.0	Pass
15	1.2322	1.2322	100.0	Pass
16	1.5153	1.5153	100.0	Pass
17	1.3832	1.3832	100.0	Pass
18	1.1484	1.1484	100.0	Pass
19	0.9915	0.9915	100.0	Pass
20	0.9405	0.9405	100.0	Pass
21	0.7733	0.7733	100.0	Pass
22	1.0622	1.0622	100.0	Pass
23	1.0281	1.0281	100.0	Pass
24	1.1255	1.1255	100.0	Pass
25	1.0351	1.0351	100.0	Pass
26	1.0211	1.0211	100.0	Pass
27	0.9077	0.9077	100.0	Pass
28	1.1937	1.1937	100.0	Pass
29	0.8630	0.8630	100.0	Pass
Mar1	0.8423	0.8423	100.0	Pass
2	0.7092	0.7092	100.0	Pass
3	0.9364	0.9364	100.0	Pass
4	0.9910	0.9910	100.0	Pass
5	0.8048	0.8048	100.0	Pass
6	0.9988	0.9988	100.0	Pass
7	0.9653	0.9653	100.0	Pass
8	0.9536	0.9536	100.0	Pass
9	0.9583	0.9583	100.0	Pass
10	0.8530	0.8530	100.0	Pass
11	0.9074	0.9074	100.0	Pass
12	0.8109	0.8109	100.0	Pass
13	0.9589	0.9589	100.0	Pass
14	0.7923	0.7923	100.0	Pass
15	0.6558	0.6558	100.0	Pass
16	0.6163	0.6163	100.0	Pass
17	0.8116	0.8116	100.0	Pass
18	0.5336	0.5336	100.0	Pass
19	0.7295	0.7295	100.0	Pass
20	0.6107	0.6107	100.0	Pass
21	0.9637	0.9637	100.0	Pass
22	1.0933	1.0933	100.0	Pass
23	0.9607	0.9607	100.0	Pass
24	0.6680	0.6680	100.0	Pass
25	0.9121	0.9121	100.0	Pass
26	0.7098	0.7098	100.0	Pass
27	0.6582	0.6582	100.0	Pass
28	0.7347	0.7347	100.0	Pass
29	0.6730	0.6730	100.0	Pass
30	0.5284	0.5284	100.0	Pass
31	0.4279	0.4279	100.0	Pass
Apr1	0.4368	0.4368	100.0	Pass
2	0.4785	0.4785	100.0	Pass
3	0.6266	0.6266	100.0	Pass
4	0.5943	0.5943	100.0	Pass
5	0.6538	0.6538	100.0	Pass
6	0.3855	0.3855	100.0	Pass
7	0.5565	0.5565	100.0	Pass
8	0.5777	0.5777	100.0	Pass

9	0.5120	0.5120	100.0	Pass
10	0.5182	0.5182	100.0	Pass
11	0.6628	0.6628	100.0	Pass
12	0.6015	0.6015	100.0	Pass
13	0.6180	0.6180	100.0	Pass
14	0.5455	0.5455	100.0	Pass
15	0.5789	0.5789	100.0	Pass
16	0.3577	0.3577	100.0	Pass
17	0.4346	0.4346	100.0	Pass
18	0.4908	0.4908	100.0	Pass
19	0.3009	0.3009	100.0	Pass
20	0.2728	0.2728	100.0	Pass
21	0.4178	0.4178	100.0	Pass
22	0.3640	0.3640	100.0	Pass
23	0.3286	0.3286	100.0	Pass
24	0.2691	0.2691	100.0	Pass
25	0.3033	0.3033	100.0	Pass
26	0.5031	0.5031	100.0	Pass
27	0.4073	0.4073	100.0	Pass
28	0.4227	0.4227	100.0	Pass
29	0.2319	0.2319	100.0	Pass
30	0.2707	0.2707	100.0	Pass
May1	0.3963	0.3963	100.0	Pass
2	0.3111	0.3111	100.0	Pass
3	0.3237	0.3237	100.0	Pass
4	0.2650	0.2650	100.0	Pass
5	0.2497	0.2497	100.0	Pass
6	0.2108	0.2108	100.0	Pass
7	0.2676	0.2676	100.0	Pass
8	0.1783	0.1783	100.0	Pass
9	0.2298	0.2298	100.0	Pass
10	0.1901	0.1901	100.0	Pass
11	0.1773	0.1773	100.0	Pass
12	0.2449	0.2449	100.0	Pass
13	0.2633	0.2633	100.0	Pass
14	0.2568	0.2568	100.0	Pass
15	0.1901	0.1901	100.0	Pass
16	0.2250	0.2250	100.0	Pass
17	0.1919	0.1919	100.0	Pass
18	0.2854	0.2854	100.0	Pass
19	0.1690	0.1690	100.0	Pass
20	0.1563	0.1563	100.0	Pass
21	0.1609	0.1609	100.0	Pass
22	0.1852	0.1852	100.0	Pass
23	0.1695	0.1695	100.0	Pass
24	0.1792	0.1792	100.0	Pass
25	0.1548	0.1548	100.0	Pass
26	0.2506	0.2506	100.0	Pass
27	0.2059	0.2059	100.0	Pass
28	0.2170	0.2170	100.0	Pass
29	0.2936	0.2936	100.0	Pass
30	0.2013	0.2013	100.0	Pass
31	0.2169	0.2169	100.0	Pass
Jun1	0.1719	0.1719	100.0	Pass
2	0.2477	0.2477	100.0	Pass
3	0.2365	0.2365	100.0	Pass
4	0.1840	0.1840	100.0	Pass

5	0.2843	0.2843	100.0	Pass
6	0.1282	0.1282	100.0	Pass
7	0.1746	0.1746	100.0	Pass
8	0.2382	0.2382	100.0	Pass
9	0.1855	0.1855	100.0	Pass
10	0.1722	0.1722	100.0	Pass
11	0.1292	0.1292	100.0	Pass
12	0.1489	0.1489	100.0	Pass
13	0.2329	0.2329	100.0	Pass
14	0.1101	0.1101	100.0	Pass
15	0.1951	0.1951	100.0	Pass
16	0.0983	0.0983	100.0	Pass
17	0.1239	0.1239	100.0	Pass
18	0.0920	0.0920	100.0	Pass
19	0.0981	0.0981	100.0	Pass
20	0.1048	0.1048	100.0	Pass
21	0.1042	0.1042	100.0	Pass
22	0.0637	0.0637	100.0	Pass
23	0.2731	0.2731	100.0	Pass
24	0.0938	0.0938	100.0	Pass
25	0.1323	0.1323	100.0	Pass
26	0.0820	0.0820	100.0	Pass
27	0.0713	0.0713	100.0	Pass
28	0.0720	0.0720	100.0	Pass
29	0.0911	0.0911	100.0	Pass
30	0.1974	0.1974	100.0	Pass
Jul11	0.0611	0.0611	100.0	Pass
2	0.0482	0.0482	100.0	Pass
3	0.0491	0.0491	100.0	Pass
4	0.1079	0.1079	100.0	Pass
5	0.0823	0.0823	100.0	Pass
6	0.0642	0.0642	100.0	Pass
7	0.1241	0.1241	100.0	Pass
8	0.0795	0.0795	100.0	Pass
9	0.1459	0.1459	100.0	Pass
10	0.1014	0.1014	100.0	Pass
11	0.2027	0.2027	100.0	Pass
12	0.1217	0.1217	100.0	Pass
13	0.0877	0.0877	100.0	Pass
14	0.1172	0.1172	100.0	Pass
15	0.0542	0.0542	100.0	Pass
16	0.0336	0.0336	100.0	Pass
17	0.0956	0.0956	100.0	Pass
18	0.0398	0.0398	100.0	Pass
19	0.0450	0.0450	100.0	Pass
20	0.0697	0.0697	100.0	Pass
21	0.0596	0.0596	100.0	Pass
22	0.0102	0.0102	100.0	Pass
23	0.0176	0.0176	100.0	Pass
24	0.0180	0.0180	100.0	Pass
25	0.0383	0.0383	100.0	Pass
26	0.0172	0.0172	100.0	Pass
27	0.0238	0.0238	100.0	Pass
28	0.0211	0.0211	100.0	Pass
29	0.0144	0.0144	100.0	Pass
30	0.0230	0.0230	100.0	Pass
31	0.0256	0.0256	100.0	Pass

Aug1	0.1040	0.1040	100.0	Pass
2	0.0430	0.0430	100.0	Pass
3	0.0206	0.0206	100.0	Pass
4	0.0175	0.0175	100.0	Pass
5	0.1215	0.1215	100.0	Pass
6	0.0884	0.0884	100.0	Pass
7	0.0362	0.0362	100.0	Pass
8	0.0331	0.0331	100.0	Pass
9	0.0051	0.0051	100.0	Pass
10	0.0175	0.0175	100.0	Pass
11	0.0756	0.0756	100.0	Pass
12	0.0676	0.0676	100.0	Pass
13	0.0850	0.0850	100.0	Pass
14	0.0568	0.0568	100.0	Pass
15	0.0535	0.0535	100.0	Pass
16	0.0449	0.0449	100.0	Pass
17	0.0780	0.0780	100.0	Pass
18	0.1453	0.1453	100.0	Pass
19	0.0505	0.0505	100.0	Pass
20	0.1170	0.1170	100.0	Pass
21	0.1129	0.1129	100.0	Pass
22	0.2148	0.2148	100.0	Pass
23	0.2111	0.2111	100.0	Pass
24	0.1981	0.1981	100.0	Pass
25	0.0931	0.0931	100.0	Pass
26	0.2098	0.2098	100.0	Pass
27	0.2215	0.2215	100.0	Pass
28	0.2270	0.2270	100.0	Pass
29	0.1503	0.1503	100.0	Pass
30	0.2182	0.2182	100.0	Pass
31	0.3514	0.3514	100.0	Pass
Sep1	0.1676	0.1676	100.0	Pass
2	0.1569	0.1569	100.0	Pass
3	0.1623	0.1623	100.0	Pass
4	0.1934	0.1934	100.0	Pass
5	0.1685	0.1685	100.0	Pass
6	0.1216	0.1216	100.0	Pass
7	0.2089	0.2089	100.0	Pass
8	0.1443	0.1443	100.0	Pass
9	0.3370	0.3370	100.0	Pass
10	0.0982	0.0982	100.0	Pass
11	0.0782	0.0782	100.0	Pass
12	0.1833	0.1833	100.0	Pass
13	0.3397	0.3397	100.0	Pass
14	0.2377	0.2377	100.0	Pass
15	0.3418	0.3418	100.0	Pass
16	0.3798	0.3798	100.0	Pass
17	0.4013	0.4013	100.0	Pass
18	0.3656	0.3656	100.0	Pass
19	0.3994	0.3994	100.0	Pass
20	0.3119	0.3119	100.0	Pass
21	0.4139	0.4139	100.0	Pass
22	0.3361	0.3361	100.0	Pass
23	0.2682	0.2682	100.0	Pass
24	0.1941	0.1941	100.0	Pass
25	0.1937	0.1937	100.0	Pass
26	0.1934	0.1934	100.0	Pass

27	0.2657	0.2657	100.0	Pass
28	0.2284	0.2284	100.0	Pass
29	0.2948	0.2948	100.0	Pass
30	0.2286	0.2286	100.0	Pass
Oct1	0.1694	0.1694	100.0	Pass
2	0.3625	0.3625	100.0	Pass
3	0.3367	0.3367	100.0	Pass
4	0.4203	0.4203	100.0	Pass
5	0.4477	0.4477	100.0	Pass
6	0.4903	0.4903	100.0	Pass
7	0.6344	0.6344	100.0	Pass
8	0.5398	0.5398	100.0	Pass
9	0.4320	0.4320	100.0	Pass
10	0.3561	0.3561	100.0	Pass
11	0.6077	0.6077	100.0	Pass
12	0.4430	0.4430	100.0	Pass
13	0.5804	0.5804	100.0	Pass
14	0.3745	0.3745	100.0	Pass
15	0.4171	0.4171	100.0	Pass
16	0.5457	0.5457	100.0	Pass
17	0.5077	0.5077	100.0	Pass
18	0.7936	0.7936	100.0	Pass
19	0.9900	0.9900	100.0	Pass
20	0.8644	0.8644	100.0	Pass
21	1.0386	1.0386	100.0	Pass
22	0.6782	0.6782	100.0	Pass
23	1.0127	1.0127	100.0	Pass
24	0.9124	0.9124	100.0	Pass
25	0.8274	0.8274	100.0	Pass
26	0.9749	0.9749	100.0	Pass
27	0.8619	0.8619	100.0	Pass
28	0.7982	0.7982	100.0	Pass
29	0.6910	0.6910	100.0	Pass
30	0.9500	0.9500	100.0	Pass
31	0.8414	0.8414	100.0	Pass
Nov1	1.0369	1.0369	100.0	Pass
2	1.2087	1.2087	100.0	Pass
3	1.0204	1.0204	100.0	Pass
4	1.0004	1.0004	100.0	Pass
5	1.1041	1.1041	100.0	Pass
6	0.9542	0.9542	100.0	Pass
7	0.8642	0.8642	100.0	Pass
8	1.0534	1.0534	100.0	Pass
9	1.2493	1.2493	100.0	Pass
10	1.1061	1.1061	100.0	Pass
11	1.2182	1.2182	100.0	Pass
12	1.1298	1.1298	100.0	Pass
13	0.9063	0.9063	100.0	Pass
14	0.9985	0.9985	100.0	Pass
15	1.1091	1.1091	100.0	Pass
16	1.1571	1.1571	100.0	Pass
17	1.0801	1.0801	100.0	Pass
18	1.5292	1.5292	100.0	Pass
19	1.4134	1.4134	100.0	Pass
20	0.9989	0.9989	100.0	Pass
21	1.4461	1.4461	100.0	Pass
22	1.6706	1.6706	100.0	Pass

23	1.3645	1.3645	100.0	Pass
24	1.5211	1.5211	100.0	Pass
25	1.0807	1.0807	100.0	Pass
26	0.8756	0.8756	100.0	Pass
27	0.9892	0.9892	100.0	Pass
28	0.9473	0.9473	100.0	Pass
29	1.4968	1.4968	100.0	Pass
30	1.2710	1.2710	100.0	Pass
Dec1	1.3731	1.3731	100.0	Pass
2	1.3557	1.3557	100.0	Pass
3	0.9243	0.9243	100.0	Pass
4	0.9695	0.9695	100.0	Pass
5	0.8559	0.8559	100.0	Pass
6	0.7295	0.7295	100.0	Pass
7	0.9905	0.9905	100.0	Pass
8	1.2407	1.2407	100.0	Pass
9	1.2641	1.2641	100.0	Pass
10	1.3776	1.3776	100.0	Pass
11	1.0398	1.0398	100.0	Pass
12	1.0980	1.0980	100.0	Pass
13	1.5497	1.5497	100.0	Pass
14	1.1778	1.1778	100.0	Pass
15	1.4415	1.4415	100.0	Pass
16	1.0531	1.0531	100.0	Pass
17	1.1857	1.1857	100.0	Pass
18	1.0020	1.0020	100.0	Pass
19	1.1220	1.1220	100.0	Pass
20	1.1272	1.1272	100.0	Pass
21	1.2418	1.2418	100.0	Pass
22	1.2105	1.2105	100.0	Pass
23	1.3074	1.3074	100.0	Pass
24	1.4290	1.4290	100.0	Pass
25	1.2969	1.2969	100.0	Pass
26	1.1951	1.1951	100.0	Pass
27	0.8308	0.8308	100.0	Pass
28	1.1986	1.1986	100.0	Pass
29	0.8617	0.8617	100.0	Pass
30	0.8626	0.8626	100.0	Pass
31	1.3670	1.3670	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #11

Total Pervious Area:0

Total Impervious Area:0.217

Mitigated Landuse Totals for POC #11

Total Pervious Area:0

Total Impervious Area:0.217

Flow Frequency Return Periods for Predeveloped. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.158831
5 year	0.187068
10 year	0.202639
25 year	0.219766
50 year	0.231078
100 year	0.241396

Flow Frequency Return Periods for Mitigated. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.158831
5 year	0.187068
10 year	0.202639
25 year	0.219766
50 year	0.231078
100 year	0.241396

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #11

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.163	0.163
1957	0.207	0.207
1958	0.163	0.163
1959	0.157	0.157
1960	0.162	0.162
1961	0.140	0.140
1962	0.213	0.213
1963	0.197	0.197
1964	0.175	0.175
1965	0.172	0.172
1966	0.166	0.166
1967	0.110	0.110
1968	0.162	0.162
1969	0.152	0.152
1970	0.151	0.151
1971	0.219	0.219
1972	0.184	0.184
1973	0.177	0.177
1974	0.165	0.165
1975	0.149	0.149
1976	0.181	0.181
1977	0.133	0.133
1978	0.232	0.232
1979	0.144	0.144
1980	0.135	0.135
1981	0.173	0.173
1982	0.199	0.199
1983	0.156	0.156
1984	0.143	0.143
1985	0.115	0.115
1986	0.173	0.173
1987	0.122	0.122
1988	0.183	0.183
1989	0.156	0.156
1990	0.198	0.198

1991	0.139	0.139
1992	0.108	0.108
1993	0.121	0.121
1994	0.147	0.147
1995	0.152	0.152
1996	0.183	0.183
1997	0.173	0.173
1998	0.113	0.113
1999	0.137	0.137
2000	0.130	0.130
2001	0.127	0.127
2002	0.202	0.202
2003	0.208	0.208
2004	0.195	0.195
2005	0.156	0.156
2006	0.158	0.158
2007	0.185	0.185
2008	0.102	0.102
2009	0.097	0.097

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	0.2316	0.2316
2	0.2191	0.2191
3	0.2134	0.2134
4	0.2078	0.2078
5	0.2075	0.2075
6	0.2017	0.2017
7	0.1987	0.1987
8	0.1979	0.1979
9	0.1973	0.1973
10	0.1951	0.1951
11	0.1852	0.1852
12	0.1835	0.1835
13	0.1833	0.1833
14	0.1830	0.1830
15	0.1807	0.1807
16	0.1770	0.1770
17	0.1748	0.1748
18	0.1735	0.1735
19	0.1728	0.1728
20	0.1726	0.1726
21	0.1717	0.1717
22	0.1660	0.1660
23	0.1650	0.1650
24	0.1631	0.1631
25	0.1628	0.1628
26	0.1619	0.1619
27	0.1619	0.1619
28	0.1584	0.1584
29	0.1566	0.1566
30	0.1565	0.1565
31	0.1563	0.1563
32	0.1560	0.1560
33	0.1521	0.1521

34	0.1520	0.1520
35	0.1507	0.1507
36	0.1487	0.1487
37	0.1474	0.1474
38	0.1444	0.1444
39	0.1432	0.1432
40	0.1399	0.1399
41	0.1394	0.1394
42	0.1367	0.1367
43	0.1348	0.1348
44	0.1335	0.1335
45	0.1296	0.1296
46	0.1272	0.1272
47	0.1218	0.1218
48	0.1211	0.1211
49	0.1146	0.1146
50	0.1132	0.1132
51	0.1096	0.1096
52	0.1085	0.1085
53	0.1018	0.1018
54	0.0970	0.0970

Stream Protection Duration

POC #11

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0794	1214	1214	100	Pass
0.0809	1129	1129	100	Pass
0.0825	1060	1060	100	Pass
0.0840	985	985	100	Pass
0.0855	925	925	100	Pass
0.0871	862	862	100	Pass
0.0886	793	793	100	Pass
0.0901	734	734	100	Pass
0.0917	681	681	100	Pass
0.0932	630	630	100	Pass
0.0947	578	578	100	Pass
0.0963	538	538	100	Pass
0.0978	499	499	100	Pass
0.0993	467	467	100	Pass
0.1009	425	425	100	Pass
0.1024	397	397	100	Pass
0.1039	367	367	100	Pass
0.1055	347	347	100	Pass
0.1070	326	326	100	Pass
0.1085	305	305	100	Pass
0.1101	288	288	100	Pass
0.1116	272	272	100	Pass
0.1131	256	256	100	Pass
0.1147	237	237	100	Pass
0.1162	226	226	100	Pass
0.1177	217	217	100	Pass
0.1192	211	211	100	Pass

0.1208	196	196	100	Pass
0.1223	189	189	100	Pass
0.1238	178	178	100	Pass
0.1254	170	170	100	Pass
0.1269	161	161	100	Pass
0.1284	154	154	100	Pass
0.1300	141	141	100	Pass
0.1315	131	131	100	Pass
0.1330	123	123	100	Pass
0.1346	115	115	100	Pass
0.1361	110	110	100	Pass
0.1376	106	106	100	Pass
0.1392	102	102	100	Pass
0.1407	97	97	100	Pass
0.1422	94	94	100	Pass
0.1438	86	86	100	Pass
0.1453	80	80	100	Pass
0.1468	76	76	100	Pass
0.1484	71	71	100	Pass
0.1499	68	68	100	Pass
0.1514	63	63	100	Pass
0.1529	60	60	100	Pass
0.1545	56	56	100	Pass
0.1560	55	55	100	Pass
0.1575	50	50	100	Pass
0.1591	48	48	100	Pass
0.1606	47	47	100	Pass
0.1621	45	45	100	Pass
0.1637	39	39	100	Pass
0.1652	35	35	100	Pass
0.1667	34	34	100	Pass
0.1683	34	34	100	Pass
0.1698	33	33	100	Pass
0.1713	32	32	100	Pass
0.1729	30	30	100	Pass
0.1744	27	27	100	Pass
0.1759	26	26	100	Pass
0.1775	24	24	100	Pass
0.1790	24	24	100	Pass
0.1805	24	24	100	Pass
0.1821	23	23	100	Pass
0.1836	18	18	100	Pass
0.1851	17	17	100	Pass
0.1867	15	15	100	Pass
0.1882	14	14	100	Pass
0.1897	13	13	100	Pass
0.1912	12	12	100	Pass
0.1928	12	12	100	Pass
0.1943	12	12	100	Pass
0.1958	11	11	100	Pass
0.1974	9	9	100	Pass
0.1989	7	7	100	Pass
0.2004	7	7	100	Pass
0.2020	6	6	100	Pass
0.2035	6	6	100	Pass
0.2050	6	6	100	Pass
0.2066	5	5	100	Pass

0.2081	3	3	100	Pass
0.2096	3	3	100	Pass
0.2112	3	3	100	Pass
0.2127	3	3	100	Pass
0.2142	2	2	100	Pass
0.2158	2	2	100	Pass
0.2173	2	2	100	Pass
0.2188	2	2	100	Pass
0.2204	1	1	100	Pass
0.2219	1	1	100	Pass
0.2234	1	1	100	Pass
0.2250	1	1	100	Pass
0.2265	1	1	100	Pass
0.2280	1	1	100	Pass
0.2295	1	1	100	Pass
0.2311	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #11
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 11
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	9.5663	9.5663	100.0	Pass
Feb	7.3036	7.3036	100.0	Pass
Mar	6.5187	6.5187	100.0	Pass
Apr	3.7089	3.7089	100.0	Pass
May	2.0913	2.0913	100.0	Pass
Jun	1.4189	1.4189	100.0	Pass
Jul	0.7164	0.7164	100.0	Pass
Aug	1.0777	1.0777	100.0	Pass
Sep	2.3695	2.3695	100.0	Pass
Oct	5.5993	5.5993	100.0	Pass
Nov	9.1934	9.1934	100.0	Pass
Dec	9.2200	9.2200	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3081	0.3081	100.0	Pass
2	0.2365	0.2365	100.0	Pass
3	0.3112	0.3112	100.0	Pass
4	0.3720	0.3720	100.0	Pass
5	0.2566	0.2566	100.0	Pass
6	0.4080	0.4080	100.0	Pass
7	0.3004	0.3004	100.0	Pass
8	0.3056	0.3056	100.0	Pass
9	0.3323	0.3323	100.0	Pass
10	0.3169	0.3169	100.0	Pass
11	0.3945	0.3945	100.0	Pass
12	0.2988	0.2988	100.0	Pass

13	0.3901	0.3901	100.0	Pass
14	0.3845	0.3845	100.0	Pass
15	0.3465	0.3465	100.0	Pass
16	0.2752	0.2752	100.0	Pass
17	0.2669	0.2669	100.0	Pass
18	0.2356	0.2356	100.0	Pass
19	0.2404	0.2404	100.0	Pass
20	0.1496	0.1496	100.0	Pass
21	0.3251	0.3251	100.0	Pass
22	0.3810	0.3810	100.0	Pass
23	0.4207	0.4207	100.0	Pass
24	0.2713	0.2713	100.0	Pass
25	0.2300	0.2300	100.0	Pass
26	0.2080	0.2080	100.0	Pass
27	0.2779	0.2779	100.0	Pass
28	0.3564	0.3564	100.0	Pass
29	0.2609	0.2609	100.0	Pass
30	0.3191	0.3191	100.0	Pass
31	0.1775	0.1775	100.0	Pass
Feb1	0.2126	0.2126	100.0	Pass
2	0.1969	0.1969	100.0	Pass
3	0.1755	0.1755	100.0	Pass
4	0.1626	0.1626	100.0	Pass
5	0.3182	0.3182	100.0	Pass
6	0.1429	0.1429	100.0	Pass
7	0.2284	0.2284	100.0	Pass
8	0.1672	0.1672	100.0	Pass
9	0.2105	0.2105	100.0	Pass
10	0.2839	0.2839	100.0	Pass
11	0.3694	0.3694	100.0	Pass
12	0.2766	0.2766	100.0	Pass
13	0.3043	0.3043	100.0	Pass
14	0.4384	0.4384	100.0	Pass
15	0.2984	0.2984	100.0	Pass
16	0.4098	0.4098	100.0	Pass
17	0.3511	0.3511	100.0	Pass
18	0.2654	0.2654	100.0	Pass
19	0.2330	0.2330	100.0	Pass
20	0.2279	0.2279	100.0	Pass
21	0.1869	0.1869	100.0	Pass
22	0.2865	0.2865	100.0	Pass
23	0.2687	0.2687	100.0	Pass
24	0.2967	0.2967	100.0	Pass
25	0.2604	0.2604	100.0	Pass
26	0.2540	0.2540	100.0	Pass
27	0.2220	0.2220	100.0	Pass
28	0.3056	0.3056	100.0	Pass
29	0.2163	0.2163	100.0	Pass
Mar1	0.2154	0.2154	100.0	Pass
2	0.1728	0.1728	100.0	Pass
3	0.2557	0.2557	100.0	Pass
4	0.2656	0.2656	100.0	Pass
5	0.2033	0.2033	100.0	Pass
6	0.2611	0.2611	100.0	Pass
7	0.2608	0.2608	100.0	Pass
8	0.2476	0.2476	100.0	Pass
9	0.2485	0.2485	100.0	Pass

10	0.2120	0.2120	100.0	Pass
11	0.2341	0.2341	100.0	Pass
12	0.2067	0.2067	100.0	Pass
13	0.2550	0.2550	100.0	Pass
14	0.1960	0.1960	100.0	Pass
15	0.1584	0.1584	100.0	Pass
16	0.1560	0.1560	100.0	Pass
17	0.2158	0.2158	100.0	Pass
18	0.1252	0.1252	100.0	Pass
19	0.2016	0.2016	100.0	Pass
20	0.1577	0.1577	100.0	Pass
21	0.2783	0.2783	100.0	Pass
22	0.3094	0.3094	100.0	Pass
23	0.2428	0.2428	100.0	Pass
24	0.1460	0.1460	100.0	Pass
25	0.2489	0.2489	100.0	Pass
26	0.1705	0.1705	100.0	Pass
27	0.1696	0.1696	100.0	Pass
28	0.1889	0.1889	100.0	Pass
29	0.1744	0.1744	100.0	Pass
30	0.1257	0.1257	100.0	Pass
31	0.1019	0.1019	100.0	Pass
Apr1	0.1126	0.1126	100.0	Pass
2	0.1293	0.1293	100.0	Pass
3	0.1854	0.1854	100.0	Pass
4	0.1611	0.1611	100.0	Pass
5	0.1699	0.1699	100.0	Pass
6	0.0853	0.0853	100.0	Pass
7	0.1585	0.1585	100.0	Pass
8	0.1548	0.1548	100.0	Pass
9	0.1393	0.1393	100.0	Pass
10	0.1336	0.1336	100.0	Pass
11	0.1955	0.1955	100.0	Pass
12	0.1598	0.1598	100.0	Pass
13	0.1698	0.1698	100.0	Pass
14	0.1407	0.1407	100.0	Pass
15	0.1506	0.1506	100.0	Pass
16	0.0780	0.0780	100.0	Pass
17	0.1186	0.1186	100.0	Pass
18	0.1379	0.1379	100.0	Pass
19	0.0665	0.0665	100.0	Pass
20	0.0695	0.0695	100.0	Pass
21	0.1253	0.1253	100.0	Pass
22	0.1026	0.1026	100.0	Pass
23	0.0869	0.0869	100.0	Pass
24	0.0690	0.0690	100.0	Pass
25	0.0876	0.0876	100.0	Pass
26	0.1463	0.1463	100.0	Pass
27	0.1098	0.1098	100.0	Pass
28	0.1138	0.1138	100.0	Pass
29	0.0500	0.0500	100.0	Pass
30	0.0765	0.0765	100.0	Pass
May1	0.1236	0.1236	100.0	Pass
2	0.0833	0.0833	100.0	Pass
3	0.0940	0.0940	100.0	Pass
4	0.0701	0.0701	100.0	Pass
5	0.0691	0.0691	100.0	Pass

6	0.0589	0.0589	100.0	Pass
7	0.0803	0.0803	100.0	Pass
8	0.0463	0.0463	100.0	Pass
9	0.0698	0.0698	100.0	Pass
10	0.0558	0.0558	100.0	Pass
11	0.0530	0.0530	100.0	Pass
12	0.0756	0.0756	100.0	Pass
13	0.0811	0.0811	100.0	Pass
14	0.0790	0.0790	100.0	Pass
15	0.0490	0.0490	100.0	Pass
16	0.0693	0.0693	100.0	Pass
17	0.0543	0.0543	100.0	Pass
18	0.0943	0.0943	100.0	Pass
19	0.0458	0.0458	100.0	Pass
20	0.0471	0.0471	100.0	Pass
21	0.0487	0.0487	100.0	Pass
22	0.0604	0.0604	100.0	Pass
23	0.0515	0.0515	100.0	Pass
24	0.0542	0.0542	100.0	Pass
25	0.0444	0.0444	100.0	Pass
26	0.0811	0.0811	100.0	Pass
27	0.0611	0.0611	100.0	Pass
28	0.0669	0.0669	100.0	Pass
29	0.0910	0.0910	100.0	Pass
30	0.0564	0.0564	100.0	Pass
31	0.0621	0.0621	100.0	Pass
Jun1	0.0451	0.0451	100.0	Pass
2	0.0822	0.0822	100.0	Pass
3	0.0762	0.0762	100.0	Pass
4	0.0544	0.0544	100.0	Pass
5	0.0929	0.0929	100.0	Pass
6	0.0302	0.0302	100.0	Pass
7	0.0511	0.0511	100.0	Pass
8	0.0756	0.0756	100.0	Pass
9	0.0556	0.0556	100.0	Pass
10	0.0543	0.0543	100.0	Pass
11	0.0381	0.0381	100.0	Pass
12	0.0492	0.0492	100.0	Pass
13	0.0781	0.0781	100.0	Pass
14	0.0287	0.0287	100.0	Pass
15	0.0631	0.0631	100.0	Pass
16	0.0245	0.0245	100.0	Pass
17	0.0377	0.0377	100.0	Pass
18	0.0239	0.0239	100.0	Pass
19	0.0319	0.0319	100.0	Pass
20	0.0363	0.0363	100.0	Pass
21	0.0335	0.0335	100.0	Pass
22	0.0181	0.0181	100.0	Pass
23	0.1020	0.1020	100.0	Pass
24	0.0215	0.0215	100.0	Pass
25	0.0435	0.0435	100.0	Pass
26	0.0259	0.0259	100.0	Pass
27	0.0245	0.0245	100.0	Pass
28	0.0254	0.0254	100.0	Pass
29	0.0334	0.0334	100.0	Pass
30	0.0700	0.0700	100.0	Pass
Jul1	0.0157	0.0157	100.0	Pass

2	0.0147	0.0147	100.0	Pass
3	0.0171	0.0171	100.0	Pass
4	0.0431	0.0431	100.0	Pass
5	0.0310	0.0310	100.0	Pass
6	0.0236	0.0236	100.0	Pass
7	0.0442	0.0442	100.0	Pass
8	0.0234	0.0234	100.0	Pass
9	0.0525	0.0525	100.0	Pass
10	0.0327	0.0327	100.0	Pass
11	0.0657	0.0657	100.0	Pass
12	0.0278	0.0278	100.0	Pass
13	0.0227	0.0227	100.0	Pass
14	0.0382	0.0382	100.0	Pass
15	0.0149	0.0149	100.0	Pass
16	0.0094	0.0094	100.0	Pass
17	0.0337	0.0337	100.0	Pass
18	0.0098	0.0098	100.0	Pass
19	0.0144	0.0144	100.0	Pass
20	0.0253	0.0253	100.0	Pass
21	0.0191	0.0191	100.0	Pass
22	0.0006	0.0006	100.0	Pass
23	0.0055	0.0055	100.0	Pass
24	0.0066	0.0066	100.0	Pass
25	0.0155	0.0155	100.0	Pass
26	0.0068	0.0068	100.0	Pass
27	0.0097	0.0097	100.0	Pass
28	0.0081	0.0081	100.0	Pass
29	0.0051	0.0051	100.0	Pass
30	0.0091	0.0091	100.0	Pass
31	0.0102	0.0102	100.0	Pass
Aug1	0.0415	0.0415	100.0	Pass
2	0.0135	0.0135	100.0	Pass
3	0.0051	0.0051	100.0	Pass
4	0.0052	0.0052	100.0	Pass
5	0.0466	0.0466	100.0	Pass
6	0.0309	0.0309	100.0	Pass
7	0.0105	0.0105	100.0	Pass
8	0.0113	0.0113	100.0	Pass
9	0.0008	0.0008	100.0	Pass
10	0.0063	0.0063	100.0	Pass
11	0.0303	0.0303	100.0	Pass
12	0.0263	0.0263	100.0	Pass
13	0.0322	0.0322	100.0	Pass
14	0.0185	0.0185	100.0	Pass
15	0.0164	0.0164	100.0	Pass
16	0.0153	0.0153	100.0	Pass
17	0.0307	0.0307	100.0	Pass
18	0.0576	0.0576	100.0	Pass
19	0.0145	0.0145	100.0	Pass
20	0.0448	0.0448	100.0	Pass
21	0.0395	0.0395	100.0	Pass
22	0.0782	0.0782	100.0	Pass
23	0.0705	0.0705	100.0	Pass
24	0.0567	0.0567	100.0	Pass
25	0.0214	0.0214	100.0	Pass
26	0.0742	0.0742	100.0	Pass
27	0.0740	0.0740	100.0	Pass

28	0.0721	0.0721	100.0	Pass
29	0.0458	0.0458	100.0	Pass
30	0.0768	0.0768	100.0	Pass
31	0.1196	0.1196	100.0	Pass
Sep1	0.0404	0.0404	100.0	Pass
2	0.0439	0.0439	100.0	Pass
3	0.0499	0.0499	100.0	Pass
4	0.0647	0.0647	100.0	Pass
5	0.0542	0.0542	100.0	Pass
6	0.0373	0.0373	100.0	Pass
7	0.0758	0.0758	100.0	Pass
8	0.0461	0.0461	100.0	Pass
9	0.1241	0.1241	100.0	Pass
10	0.0254	0.0254	100.0	Pass
11	0.0234	0.0234	100.0	Pass
12	0.0665	0.0665	100.0	Pass
13	0.1205	0.1205	100.0	Pass
14	0.0733	0.0733	100.0	Pass
15	0.1151	0.1151	100.0	Pass
16	0.1168	0.1168	100.0	Pass
17	0.1301	0.1301	100.0	Pass
18	0.1157	0.1157	100.0	Pass
19	0.1220	0.1220	100.0	Pass
20	0.0844	0.0844	100.0	Pass
21	0.1203	0.1203	100.0	Pass
22	0.0951	0.0951	100.0	Pass
23	0.0764	0.0764	100.0	Pass
24	0.0543	0.0543	100.0	Pass
25	0.0608	0.0608	100.0	Pass
26	0.0610	0.0610	100.0	Pass
27	0.0823	0.0823	100.0	Pass
28	0.0730	0.0730	100.0	Pass
29	0.0975	0.0975	100.0	Pass
30	0.0669	0.0669	100.0	Pass
Oct1	0.0469	0.0469	100.0	Pass
2	0.1279	0.1279	100.0	Pass
3	0.1115	0.1115	100.0	Pass
4	0.1352	0.1352	100.0	Pass
5	0.1431	0.1431	100.0	Pass
6	0.1578	0.1578	100.0	Pass
7	0.2010	0.2010	100.0	Pass
8	0.1584	0.1584	100.0	Pass
9	0.1208	0.1208	100.0	Pass
10	0.0986	0.0986	100.0	Pass
11	0.1995	0.1995	100.0	Pass
12	0.1274	0.1274	100.0	Pass
13	0.1849	0.1849	100.0	Pass
14	0.0965	0.0965	100.0	Pass
15	0.1207	0.1207	100.0	Pass
16	0.1625	0.1625	100.0	Pass
17	0.1477	0.1477	100.0	Pass
18	0.2404	0.2404	100.0	Pass
19	0.2926	0.2926	100.0	Pass
20	0.2496	0.2496	100.0	Pass
21	0.3026	0.3026	100.0	Pass
22	0.1642	0.1642	100.0	Pass
23	0.2939	0.2939	100.0	Pass

24	0.2529	0.2529	100.0	Pass
25	0.2233	0.2233	100.0	Pass
26	0.2770	0.2770	100.0	Pass
27	0.2280	0.2280	100.0	Pass
28	0.2132	0.2132	100.0	Pass
29	0.1773	0.1773	100.0	Pass
30	0.2778	0.2778	100.0	Pass
31	0.2245	0.2245	100.0	Pass
Nov1	0.2881	0.2881	100.0	Pass
2	0.3571	0.3571	100.0	Pass
3	0.2607	0.2607	100.0	Pass
4	0.2715	0.2715	100.0	Pass
5	0.3012	0.3012	100.0	Pass
6	0.2437	0.2437	100.0	Pass
7	0.2215	0.2215	100.0	Pass
8	0.2996	0.2996	100.0	Pass
9	0.3526	0.3526	100.0	Pass
10	0.2940	0.2940	100.0	Pass
11	0.3325	0.3325	100.0	Pass
12	0.3069	0.3069	100.0	Pass
13	0.2170	0.2170	100.0	Pass
14	0.2692	0.2692	100.0	Pass
15	0.3031	0.3031	100.0	Pass
16	0.3182	0.3182	100.0	Pass
17	0.2850	0.2850	100.0	Pass
18	0.4320	0.4320	100.0	Pass
19	0.3741	0.3741	100.0	Pass
20	0.2331	0.2331	100.0	Pass
21	0.3970	0.3970	100.0	Pass
22	0.4778	0.4778	100.0	Pass
23	0.3419	0.3419	100.0	Pass
24	0.4016	0.4016	100.0	Pass
25	0.2468	0.2468	100.0	Pass
26	0.2003	0.2003	100.0	Pass
27	0.2626	0.2626	100.0	Pass
28	0.2502	0.2502	100.0	Pass
29	0.4310	0.4310	100.0	Pass
30	0.3261	0.3261	100.0	Pass
Dec1	0.3674	0.3674	100.0	Pass
2	0.3487	0.3487	100.0	Pass
3	0.2115	0.2115	100.0	Pass
4	0.2482	0.2482	100.0	Pass
5	0.2072	0.2072	100.0	Pass
6	0.1834	0.1834	100.0	Pass
7	0.2785	0.2785	100.0	Pass
8	0.3506	0.3506	100.0	Pass
9	0.3384	0.3384	100.0	Pass
10	0.3632	0.3632	100.0	Pass
11	0.2562	0.2562	100.0	Pass
12	0.2854	0.2854	100.0	Pass
13	0.4425	0.4425	100.0	Pass
14	0.2825	0.2825	100.0	Pass
15	0.3936	0.3936	100.0	Pass
16	0.2452	0.2452	100.0	Pass
17	0.3106	0.3106	100.0	Pass
18	0.2495	0.2495	100.0	Pass
19	0.3056	0.3056	100.0	Pass

20	0.2917	0.2917	100.0	Pass
21	0.3213	0.3213	100.0	Pass
22	0.3180	0.3180	100.0	Pass
23	0.3487	0.3487	100.0	Pass
24	0.3910	0.3910	100.0	Pass
25	0.3243	0.3243	100.0	Pass
26	0.2940	0.2940	100.0	Pass
27	0.1902	0.1902	100.0	Pass
28	0.3290	0.3290	100.0	Pass
29	0.2001	0.2001	100.0	Pass
30	0.2188	0.2188	100.0	Pass
31	0.3877	0.3877	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #12

Total Pervious Area:0

Total Impervious Area:0.302

Mitigated Landuse Totals for POC #12

Total Pervious Area:0

Total Impervious Area:0.302

Flow Frequency Return Periods for Predeveloped. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.221047
5 year	0.260344
10 year	0.282014
25 year	0.305849
50 year	0.321593
100 year	0.335953

Flow Frequency Return Periods for Mitigated. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.221047
5 year	0.260344
10 year	0.282014
25 year	0.305849
50 year	0.321593
100 year	0.335953

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #12

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.227	0.227
1957	0.289	0.289
1958	0.227	0.227
1959	0.218	0.218
1960	0.225	0.225

1961	0.195	0.195
1962	0.297	0.297
1963	0.275	0.275
1964	0.243	0.243
1965	0.239	0.239
1966	0.231	0.231
1967	0.152	0.152
1968	0.225	0.225
1969	0.212	0.212
1970	0.210	0.210
1971	0.305	0.305
1972	0.255	0.255
1973	0.246	0.246
1974	0.230	0.230
1975	0.207	0.207
1976	0.251	0.251
1977	0.186	0.186
1978	0.322	0.322
1979	0.201	0.201
1980	0.188	0.188
1981	0.240	0.240
1982	0.277	0.277
1983	0.218	0.218
1984	0.199	0.199
1985	0.160	0.160
1986	0.241	0.241
1987	0.169	0.169
1988	0.255	0.255
1989	0.217	0.217
1990	0.275	0.275
1991	0.194	0.194
1992	0.151	0.151
1993	0.169	0.169
1994	0.205	0.205
1995	0.212	0.212
1996	0.255	0.255
1997	0.241	0.241
1998	0.157	0.157
1999	0.190	0.190
2000	0.180	0.180
2001	0.177	0.177
2002	0.281	0.281
2003	0.289	0.289
2004	0.272	0.272
2005	0.217	0.217
2006	0.221	0.221
2007	0.258	0.258
2008	0.142	0.142
2009	0.135	0.135

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #12

Rank	Predeveloped	Mitigated
1	0.3224	0.3224
2	0.3049	0.3049
3	0.2970	0.2970

4	0.2891	0.2891
5	0.2887	0.2887
6	0.2807	0.2807
7	0.2765	0.2765
8	0.2754	0.2754
9	0.2745	0.2745
10	0.2716	0.2716
11	0.2577	0.2577
12	0.2554	0.2554
13	0.2552	0.2552
14	0.2547	0.2547
15	0.2515	0.2515
16	0.2464	0.2464
17	0.2433	0.2433
18	0.2414	0.2414
19	0.2405	0.2405
20	0.2401	0.2401
21	0.2390	0.2390
22	0.2310	0.2310
23	0.2296	0.2296
24	0.2270	0.2270
25	0.2266	0.2266
26	0.2253	0.2253
27	0.2253	0.2253
28	0.2205	0.2205
29	0.2180	0.2180
30	0.2178	0.2178
31	0.2175	0.2175
32	0.2171	0.2171
33	0.2117	0.2117
34	0.2115	0.2115
35	0.2097	0.2097
36	0.2070	0.2070
37	0.2052	0.2052
38	0.2010	0.2010
39	0.1993	0.1993
40	0.1947	0.1947
41	0.1939	0.1939
42	0.1902	0.1902
43	0.1877	0.1877
44	0.1857	0.1857
45	0.1804	0.1804
46	0.1770	0.1770
47	0.1695	0.1695
48	0.1686	0.1686
49	0.1595	0.1595
50	0.1575	0.1575
51	0.1525	0.1525
52	0.1510	0.1510
53	0.1417	0.1417
54	0.1351	0.1351

Stream Protection Duration
POC #12
The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1105	1229	1229	100	Pass
0.1127	1158	1158	100	Pass
0.1148	1084	1084	100	Pass
0.1169	1012	1012	100	Pass
0.1191	925	925	100	Pass
0.1212	865	865	100	Pass
0.1233	804	804	100	Pass
0.1254	747	747	100	Pass
0.1276	696	696	100	Pass
0.1297	648	648	100	Pass
0.1318	599	599	100	Pass
0.1340	558	558	100	Pass
0.1361	503	503	100	Pass
0.1382	468	468	100	Pass
0.1404	430	430	100	Pass
0.1425	401	401	100	Pass
0.1446	381	381	100	Pass
0.1468	356	356	100	Pass
0.1489	332	332	100	Pass
0.1510	305	305	100	Pass
0.1532	288	288	100	Pass
0.1553	273	273	100	Pass
0.1574	260	260	100	Pass
0.1596	239	239	100	Pass
0.1617	229	229	100	Pass
0.1638	220	220	100	Pass
0.1660	213	213	100	Pass
0.1681	196	196	100	Pass
0.1702	189	189	100	Pass
0.1724	181	181	100	Pass
0.1745	171	171	100	Pass
0.1766	164	164	100	Pass
0.1787	155	155	100	Pass
0.1809	144	144	100	Pass
0.1830	131	131	100	Pass
0.1851	123	123	100	Pass
0.1873	115	115	100	Pass
0.1894	110	110	100	Pass
0.1915	107	107	100	Pass
0.1937	103	103	100	Pass
0.1958	98	98	100	Pass
0.1979	95	95	100	Pass
0.2001	86	86	100	Pass
0.2022	80	80	100	Pass
0.2043	78	78	100	Pass
0.2065	72	72	100	Pass
0.2086	69	69	100	Pass
0.2107	63	63	100	Pass
0.2129	61	61	100	Pass
0.2150	58	58	100	Pass
0.2171	56	56	100	Pass
0.2193	50	50	100	Pass
0.2214	48	48	100	Pass
0.2235	47	47	100	Pass

0.2257	47	47	100	Pass
0.2278	41	41	100	Pass
0.2299	38	38	100	Pass
0.2320	34	34	100	Pass
0.2342	34	34	100	Pass
0.2363	33	33	100	Pass
0.2384	32	32	100	Pass
0.2406	31	31	100	Pass
0.2427	27	27	100	Pass
0.2448	26	26	100	Pass
0.2470	25	25	100	Pass
0.2491	24	24	100	Pass
0.2512	24	24	100	Pass
0.2534	23	23	100	Pass
0.2555	19	19	100	Pass
0.2576	17	17	100	Pass
0.2598	16	16	100	Pass
0.2619	14	14	100	Pass
0.2640	13	13	100	Pass
0.2662	12	12	100	Pass
0.2683	12	12	100	Pass
0.2704	12	12	100	Pass
0.2726	11	11	100	Pass
0.2747	11	11	100	Pass
0.2768	8	8	100	Pass
0.2790	7	7	100	Pass
0.2811	6	6	100	Pass
0.2832	6	6	100	Pass
0.2853	6	6	100	Pass
0.2875	5	5	100	Pass
0.2896	4	4	100	Pass
0.2917	3	3	100	Pass
0.2939	3	3	100	Pass
0.2960	3	3	100	Pass
0.2981	2	2	100	Pass
0.3003	2	2	100	Pass
0.3024	2	2	100	Pass
0.3045	2	2	100	Pass
0.3067	1	1	100	Pass
0.3088	1	1	100	Pass
0.3109	1	1	100	Pass
0.3131	1	1	100	Pass
0.3152	1	1	100	Pass
0.3173	1	1	100	Pass
0.3195	1	1	100	Pass
0.3216	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #12
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 12

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	13.3132	13.3132	100.0	Pass
Feb	10.1646	10.1646	100.0	Pass
Mar	9.0723	9.0723	100.0	Pass
Apr	5.1617	5.1617	100.0	Pass
May	2.9104	2.9104	100.0	Pass
Jun	1.9748	1.9748	100.0	Pass
Jul	0.9971	0.9971	100.0	Pass
Aug	1.4998	1.4998	100.0	Pass
Sep	3.2975	3.2975	100.0	Pass
Oct	7.7927	7.7927	100.0	Pass
Nov	12.7943	12.7943	100.0	Pass
Dec	12.8313	12.8313	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4288	0.4288	100.0	Pass
2	0.3291	0.3291	100.0	Pass
3	0.4330	0.4330	100.0	Pass
4	0.5177	0.5177	100.0	Pass
5	0.3571	0.3571	100.0	Pass
6	0.5678	0.5678	100.0	Pass
7	0.4181	0.4181	100.0	Pass
8	0.4254	0.4254	100.0	Pass
9	0.4624	0.4624	100.0	Pass
10	0.4410	0.4410	100.0	Pass
11	0.5491	0.5491	100.0	Pass
12	0.4158	0.4158	100.0	Pass
13	0.5429	0.5429	100.0	Pass
14	0.5351	0.5351	100.0	Pass
15	0.4822	0.4822	100.0	Pass
16	0.3830	0.3830	100.0	Pass
17	0.3715	0.3715	100.0	Pass
18	0.3279	0.3279	100.0	Pass
19	0.3346	0.3346	100.0	Pass
20	0.2081	0.2081	100.0	Pass
21	0.4524	0.4524	100.0	Pass
22	0.5303	0.5303	100.0	Pass
23	0.5855	0.5855	100.0	Pass
24	0.3775	0.3775	100.0	Pass
25	0.3201	0.3201	100.0	Pass
26	0.2894	0.2894	100.0	Pass
27	0.3868	0.3868	100.0	Pass
28	0.4960	0.4960	100.0	Pass
29	0.3631	0.3631	100.0	Pass
30	0.4441	0.4441	100.0	Pass
31	0.2470	0.2470	100.0	Pass
Feb1	0.2959	0.2959	100.0	Pass
2	0.2740	0.2740	100.0	Pass
3	0.2443	0.2443	100.0	Pass
4	0.2262	0.2262	100.0	Pass
5	0.4428	0.4428	100.0	Pass
6	0.1989	0.1989	100.0	Pass
7	0.3179	0.3179	100.0	Pass
8	0.2327	0.2327	100.0	Pass

9	0.2930	0.2930	100.0	Pass
10	0.3950	0.3950	100.0	Pass
11	0.5141	0.5141	100.0	Pass
12	0.3850	0.3850	100.0	Pass
13	0.4235	0.4235	100.0	Pass
14	0.6102	0.6102	100.0	Pass
15	0.4153	0.4153	100.0	Pass
16	0.5703	0.5703	100.0	Pass
17	0.4886	0.4886	100.0	Pass
18	0.3694	0.3694	100.0	Pass
19	0.3243	0.3243	100.0	Pass
20	0.3172	0.3172	100.0	Pass
21	0.2601	0.2601	100.0	Pass
22	0.3987	0.3987	100.0	Pass
23	0.3739	0.3739	100.0	Pass
24	0.4129	0.4129	100.0	Pass
25	0.3625	0.3625	100.0	Pass
26	0.3535	0.3535	100.0	Pass
27	0.3089	0.3089	100.0	Pass
28	0.4253	0.4253	100.0	Pass
29	0.3010	0.3010	100.0	Pass
Mar1	0.2998	0.2998	100.0	Pass
2	0.2405	0.2405	100.0	Pass
3	0.3559	0.3559	100.0	Pass
4	0.3696	0.3696	100.0	Pass
5	0.2830	0.2830	100.0	Pass
6	0.3633	0.3633	100.0	Pass
7	0.3630	0.3630	100.0	Pass
8	0.3446	0.3446	100.0	Pass
9	0.3458	0.3458	100.0	Pass
10	0.2951	0.2951	100.0	Pass
11	0.3257	0.3257	100.0	Pass
12	0.2877	0.2877	100.0	Pass
13	0.3548	0.3548	100.0	Pass
14	0.2728	0.2728	100.0	Pass
15	0.2205	0.2205	100.0	Pass
16	0.2171	0.2171	100.0	Pass
17	0.3003	0.3003	100.0	Pass
18	0.1743	0.1743	100.0	Pass
19	0.2806	0.2806	100.0	Pass
20	0.2194	0.2194	100.0	Pass
21	0.3873	0.3873	100.0	Pass
22	0.4306	0.4306	100.0	Pass
23	0.3379	0.3379	100.0	Pass
24	0.2031	0.2031	100.0	Pass
25	0.3463	0.3463	100.0	Pass
26	0.2373	0.2373	100.0	Pass
27	0.2360	0.2360	100.0	Pass
28	0.2629	0.2629	100.0	Pass
29	0.2427	0.2427	100.0	Pass
30	0.1750	0.1750	100.0	Pass
31	0.1418	0.1418	100.0	Pass
Apr1	0.1567	0.1567	100.0	Pass
2	0.1799	0.1799	100.0	Pass
3	0.2581	0.2581	100.0	Pass
4	0.2242	0.2242	100.0	Pass
5	0.2364	0.2364	100.0	Pass

6	0.1187	0.1187	100.0	Pass
7	0.2205	0.2205	100.0	Pass
8	0.2154	0.2154	100.0	Pass
9	0.1938	0.1938	100.0	Pass
10	0.1860	0.1860	100.0	Pass
11	0.2720	0.2720	100.0	Pass
12	0.2224	0.2224	100.0	Pass
13	0.2363	0.2363	100.0	Pass
14	0.1958	0.1958	100.0	Pass
15	0.2095	0.2095	100.0	Pass
16	0.1086	0.1086	100.0	Pass
17	0.1650	0.1650	100.0	Pass
18	0.1919	0.1919	100.0	Pass
19	0.0925	0.0925	100.0	Pass
20	0.0967	0.0967	100.0	Pass
21	0.1744	0.1744	100.0	Pass
22	0.1428	0.1428	100.0	Pass
23	0.1209	0.1209	100.0	Pass
24	0.0960	0.0960	100.0	Pass
25	0.1219	0.1219	100.0	Pass
26	0.2035	0.2035	100.0	Pass
27	0.1528	0.1528	100.0	Pass
28	0.1584	0.1584	100.0	Pass
29	0.0696	0.0696	100.0	Pass
30	0.1064	0.1064	100.0	Pass
May1	0.1721	0.1721	100.0	Pass
2	0.1159	0.1159	100.0	Pass
3	0.1308	0.1308	100.0	Pass
4	0.0975	0.0975	100.0	Pass
5	0.0962	0.0962	100.0	Pass
6	0.0820	0.0820	100.0	Pass
7	0.1118	0.1118	100.0	Pass
8	0.0644	0.0644	100.0	Pass
9	0.0971	0.0971	100.0	Pass
10	0.0776	0.0776	100.0	Pass
11	0.0737	0.0737	100.0	Pass
12	0.1052	0.1052	100.0	Pass
13	0.1128	0.1128	100.0	Pass
14	0.1099	0.1099	100.0	Pass
15	0.0681	0.0681	100.0	Pass
16	0.0965	0.0965	100.0	Pass
17	0.0755	0.0755	100.0	Pass
18	0.1312	0.1312	100.0	Pass
19	0.0638	0.0638	100.0	Pass
20	0.0655	0.0655	100.0	Pass
21	0.0678	0.0678	100.0	Pass
22	0.0840	0.0840	100.0	Pass
23	0.0716	0.0716	100.0	Pass
24	0.0755	0.0755	100.0	Pass
25	0.0617	0.0617	100.0	Pass
26	0.1129	0.1129	100.0	Pass
27	0.0850	0.0850	100.0	Pass
28	0.0932	0.0932	100.0	Pass
29	0.1267	0.1267	100.0	Pass
30	0.0785	0.0785	100.0	Pass
31	0.0864	0.0864	100.0	Pass
Jun1	0.0627	0.0627	100.0	Pass

	2	0.1144	0.1144	100.0	Pass
	3	0.1061	0.1061	100.0	Pass
	4	0.0757	0.0757	100.0	Pass
	5	0.1293	0.1293	100.0	Pass
	6	0.0420	0.0420	100.0	Pass
	7	0.0711	0.0711	100.0	Pass
	8	0.1052	0.1052	100.0	Pass
	9	0.0774	0.0774	100.0	Pass
	10	0.0755	0.0755	100.0	Pass
	11	0.0530	0.0530	100.0	Pass
	12	0.0685	0.0685	100.0	Pass
	13	0.1087	0.1087	100.0	Pass
	14	0.0400	0.0400	100.0	Pass
	15	0.0879	0.0879	100.0	Pass
	16	0.0341	0.0341	100.0	Pass
	17	0.0525	0.0525	100.0	Pass
	18	0.0333	0.0333	100.0	Pass
	19	0.0444	0.0444	100.0	Pass
	20	0.0505	0.0505	100.0	Pass
	21	0.0467	0.0467	100.0	Pass
	22	0.0252	0.0252	100.0	Pass
	23	0.1419	0.1419	100.0	Pass
	24	0.0299	0.0299	100.0	Pass
	25	0.0605	0.0605	100.0	Pass
	26	0.0360	0.0360	100.0	Pass
	27	0.0341	0.0341	100.0	Pass
	28	0.0354	0.0354	100.0	Pass
	29	0.0465	0.0465	100.0	Pass
	30	0.0975	0.0975	100.0	Pass
Jul	1	0.0218	0.0218	100.0	Pass
	2	0.0205	0.0205	100.0	Pass
	3	0.0239	0.0239	100.0	Pass
	4	0.0600	0.0600	100.0	Pass
	5	0.0432	0.0432	100.0	Pass
	6	0.0328	0.0328	100.0	Pass
	7	0.0616	0.0616	100.0	Pass
	8	0.0326	0.0326	100.0	Pass
	9	0.0731	0.0731	100.0	Pass
	10	0.0455	0.0455	100.0	Pass
	11	0.0914	0.0914	100.0	Pass
	12	0.0386	0.0386	100.0	Pass
	13	0.0316	0.0316	100.0	Pass
	14	0.0531	0.0531	100.0	Pass
	15	0.0208	0.0208	100.0	Pass
	16	0.0131	0.0131	100.0	Pass
	17	0.0469	0.0469	100.0	Pass
	18	0.0136	0.0136	100.0	Pass
	19	0.0200	0.0200	100.0	Pass
	20	0.0353	0.0353	100.0	Pass
	21	0.0266	0.0266	100.0	Pass
	22	0.0008	0.0008	100.0	Pass
	23	0.0077	0.0077	100.0	Pass
	24	0.0092	0.0092	100.0	Pass
	25	0.0216	0.0216	100.0	Pass
	26	0.0095	0.0095	100.0	Pass
	27	0.0135	0.0135	100.0	Pass
	28	0.0113	0.0113	100.0	Pass

29	0.0072	0.0072	100.0	Pass
30	0.0127	0.0127	100.0	Pass
31	0.0142	0.0142	100.0	Pass
Aug1	0.0577	0.0577	100.0	Pass
2	0.0188	0.0188	100.0	Pass
3	0.0072	0.0072	100.0	Pass
4	0.0073	0.0073	100.0	Pass
5	0.0648	0.0648	100.0	Pass
6	0.0430	0.0430	100.0	Pass
7	0.0146	0.0146	100.0	Pass
8	0.0157	0.0157	100.0	Pass
9	0.0011	0.0011	100.0	Pass
10	0.0088	0.0088	100.0	Pass
11	0.0421	0.0421	100.0	Pass
12	0.0365	0.0365	100.0	Pass
13	0.0448	0.0448	100.0	Pass
14	0.0258	0.0258	100.0	Pass
15	0.0229	0.0229	100.0	Pass
16	0.0213	0.0213	100.0	Pass
17	0.0427	0.0427	100.0	Pass
18	0.0802	0.0802	100.0	Pass
19	0.0202	0.0202	100.0	Pass
20	0.0623	0.0623	100.0	Pass
21	0.0550	0.0550	100.0	Pass
22	0.1088	0.1088	100.0	Pass
23	0.0981	0.0981	100.0	Pass
24	0.0789	0.0789	100.0	Pass
25	0.0298	0.0298	100.0	Pass
26	0.1033	0.1033	100.0	Pass
27	0.1030	0.1030	100.0	Pass
28	0.1004	0.1004	100.0	Pass
29	0.0638	0.0638	100.0	Pass
30	0.1069	0.1069	100.0	Pass
31	0.1665	0.1665	100.0	Pass
Sep1	0.0562	0.0562	100.0	Pass
2	0.0611	0.0611	100.0	Pass
3	0.0695	0.0695	100.0	Pass
4	0.0900	0.0900	100.0	Pass
5	0.0755	0.0755	100.0	Pass
6	0.0519	0.0519	100.0	Pass
7	0.1055	0.1055	100.0	Pass
8	0.0642	0.0642	100.0	Pass
9	0.1727	0.1727	100.0	Pass
10	0.0353	0.0353	100.0	Pass
11	0.0326	0.0326	100.0	Pass
12	0.0925	0.0925	100.0	Pass
13	0.1676	0.1676	100.0	Pass
14	0.1020	0.1020	100.0	Pass
15	0.1601	0.1601	100.0	Pass
16	0.1626	0.1626	100.0	Pass
17	0.1810	0.1810	100.0	Pass
18	0.1610	0.1610	100.0	Pass
19	0.1698	0.1698	100.0	Pass
20	0.1174	0.1174	100.0	Pass
21	0.1674	0.1674	100.0	Pass
22	0.1323	0.1323	100.0	Pass
23	0.1063	0.1063	100.0	Pass

24	0.0755	0.0755	100.0	Pass
25	0.0846	0.0846	100.0	Pass
26	0.0849	0.0849	100.0	Pass
27	0.1146	0.1146	100.0	Pass
28	0.1016	0.1016	100.0	Pass
29	0.1357	0.1357	100.0	Pass
30	0.0930	0.0930	100.0	Pass
Oct1	0.0652	0.0652	100.0	Pass
2	0.1781	0.1781	100.0	Pass
3	0.1552	0.1552	100.0	Pass
4	0.1882	0.1882	100.0	Pass
5	0.1992	0.1992	100.0	Pass
6	0.2196	0.2196	100.0	Pass
7	0.2798	0.2798	100.0	Pass
8	0.2205	0.2205	100.0	Pass
9	0.1680	0.1680	100.0	Pass
10	0.1372	0.1372	100.0	Pass
11	0.2776	0.2776	100.0	Pass
12	0.1773	0.1773	100.0	Pass
13	0.2574	0.2574	100.0	Pass
14	0.1343	0.1343	100.0	Pass
15	0.1680	0.1680	100.0	Pass
16	0.2262	0.2262	100.0	Pass
17	0.2056	0.2056	100.0	Pass
18	0.3345	0.3345	100.0	Pass
19	0.4072	0.4072	100.0	Pass
20	0.3474	0.3474	100.0	Pass
21	0.4211	0.4211	100.0	Pass
22	0.2286	0.2286	100.0	Pass
23	0.4090	0.4090	100.0	Pass
24	0.3520	0.3520	100.0	Pass
25	0.3108	0.3108	100.0	Pass
26	0.3855	0.3855	100.0	Pass
27	0.3174	0.3174	100.0	Pass
28	0.2968	0.2968	100.0	Pass
29	0.2468	0.2468	100.0	Pass
30	0.3866	0.3866	100.0	Pass
31	0.3124	0.3124	100.0	Pass
Nov1	0.4010	0.4010	100.0	Pass
2	0.4970	0.4970	100.0	Pass
3	0.3628	0.3628	100.0	Pass
4	0.3778	0.3778	100.0	Pass
5	0.4192	0.4192	100.0	Pass
6	0.3392	0.3392	100.0	Pass
7	0.3083	0.3083	100.0	Pass
8	0.4170	0.4170	100.0	Pass
9	0.4907	0.4907	100.0	Pass
10	0.4091	0.4091	100.0	Pass
11	0.4628	0.4628	100.0	Pass
12	0.4271	0.4271	100.0	Pass
13	0.3019	0.3019	100.0	Pass
14	0.3746	0.3746	100.0	Pass
15	0.4218	0.4218	100.0	Pass
16	0.4429	0.4429	100.0	Pass
17	0.3966	0.3966	100.0	Pass
18	0.6013	0.6013	100.0	Pass
19	0.5207	0.5207	100.0	Pass

20	0.3245	0.3245	100.0	Pass
21	0.5526	0.5526	100.0	Pass
22	0.6649	0.6649	100.0	Pass
23	0.4758	0.4758	100.0	Pass
24	0.5588	0.5588	100.0	Pass
25	0.3435	0.3435	100.0	Pass
26	0.2788	0.2788	100.0	Pass
27	0.3654	0.3654	100.0	Pass
28	0.3482	0.3482	100.0	Pass
29	0.5998	0.5998	100.0	Pass
30	0.4539	0.4539	100.0	Pass
Dec1	0.5113	0.5113	100.0	Pass
2	0.4853	0.4853	100.0	Pass
3	0.2944	0.2944	100.0	Pass
4	0.3454	0.3454	100.0	Pass
5	0.2884	0.2884	100.0	Pass
6	0.2553	0.2553	100.0	Pass
7	0.3876	0.3876	100.0	Pass
8	0.4880	0.4880	100.0	Pass
9	0.4709	0.4709	100.0	Pass
10	0.5055	0.5055	100.0	Pass
11	0.3565	0.3565	100.0	Pass
12	0.3972	0.3972	100.0	Pass
13	0.6159	0.6159	100.0	Pass
14	0.3931	0.3931	100.0	Pass
15	0.5478	0.5478	100.0	Pass
16	0.3412	0.3412	100.0	Pass
17	0.4323	0.4323	100.0	Pass
18	0.3472	0.3472	100.0	Pass
19	0.4253	0.4253	100.0	Pass
20	0.4060	0.4060	100.0	Pass
21	0.4471	0.4471	100.0	Pass
22	0.4426	0.4426	100.0	Pass
23	0.4852	0.4852	100.0	Pass
24	0.5441	0.5441	100.0	Pass
25	0.4513	0.4513	100.0	Pass
26	0.4092	0.4092	100.0	Pass
27	0.2647	0.2647	100.0	Pass
28	0.4578	0.4578	100.0	Pass
29	0.2785	0.2785	100.0	Pass
30	0.3045	0.3045	100.0	Pass
31	0.5396	0.5396	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #13
Total Pervious Area:0.089
Total Impervious Area:0.25

Mitigated Landuse Totals for POC #13
Total Pervious Area:0.089

Total Impervious Area:0.25

Flow Frequency Return Periods for Predeveloped. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.219163
5 year	0.263069
10 year	0.287004
25 year	0.313011
50 year	0.32997
100 year	0.345268

Flow Frequency Return Periods for Mitigated. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.219163
5 year	0.263069
10 year	0.287004
25 year	0.313011
50 year	0.32997
100 year	0.345268

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #13

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.237	0.237
1957	0.290	0.290
1958	0.220	0.220
1959	0.224	0.224
1960	0.234	0.234
1961	0.180	0.180
1962	0.310	0.310
1963	0.283	0.283
1964	0.241	0.241
1965	0.243	0.243
1966	0.239	0.239
1967	0.147	0.147
1968	0.229	0.229
1969	0.219	0.219
1970	0.199	0.199
1971	0.315	0.315
1972	0.268	0.268
1973	0.245	0.245
1974	0.238	0.238
1975	0.208	0.208
1976	0.256	0.256
1977	0.183	0.183
1978	0.322	0.322
1979	0.203	0.203
1980	0.185	0.185
1981	0.237	0.237
1982	0.274	0.274
1983	0.216	0.216
1984	0.201	0.201
1985	0.146	0.146
1986	0.244	0.244
1987	0.169	0.169

1988	0.258	0.258
1989	0.216	0.216
1990	0.285	0.285
1991	0.175	0.175
1992	0.141	0.141
1993	0.157	0.157
1994	0.204	0.204
1995	0.188	0.188
1996	0.231	0.231
1997	0.236	0.236
1998	0.145	0.145
1999	0.187	0.187
2000	0.172	0.172
2001	0.164	0.164
2002	0.241	0.241
2003	0.302	0.302
2004	0.279	0.279
2005	0.219	0.219
2006	0.223	0.223
2007	0.266	0.266
2008	0.133	0.133
2009	0.125	0.125

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #13

Rank	Predeveloped	Mitigated
1	0.3222	0.3222
2	0.3152	0.3152
3	0.3099	0.3099
4	0.3023	0.3023
5	0.2900	0.2900
6	0.2847	0.2847
7	0.2833	0.2833
8	0.2787	0.2787
9	0.2735	0.2735
10	0.2681	0.2681
11	0.2657	0.2657
12	0.2583	0.2583
13	0.2564	0.2564
14	0.2449	0.2449
15	0.2438	0.2438
16	0.2426	0.2426
17	0.2406	0.2406
18	0.2406	0.2406
19	0.2392	0.2392
20	0.2384	0.2384
21	0.2369	0.2369
22	0.2366	0.2366
23	0.2363	0.2363
24	0.2343	0.2343
25	0.2314	0.2314
26	0.2291	0.2291
27	0.2242	0.2242
28	0.2234	0.2234
29	0.2201	0.2201
30	0.2194	0.2194

31	0.2186	0.2186
32	0.2161	0.2161
33	0.2158	0.2158
34	0.2081	0.2081
35	0.2040	0.2040
36	0.2033	0.2033
37	0.2012	0.2012
38	0.1993	0.1993
39	0.1879	0.1879
40	0.1867	0.1867
41	0.1849	0.1849
42	0.1828	0.1828
43	0.1802	0.1802
44	0.1753	0.1753
45	0.1722	0.1722
46	0.1689	0.1689
47	0.1641	0.1641
48	0.1567	0.1567
49	0.1474	0.1474
50	0.1461	0.1461
51	0.1446	0.1446
52	0.1406	0.1406
53	0.1333	0.1333
54	0.1249	0.1249

Stream Protection Duration

POC #13

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1096	988	988	100	Pass
0.1118	925	925	100	Pass
0.1140	839	839	100	Pass
0.1163	788	788	100	Pass
0.1185	744	744	100	Pass
0.1207	692	692	100	Pass
0.1229	636	636	100	Pass
0.1252	582	582	100	Pass
0.1274	548	548	100	Pass
0.1296	518	518	100	Pass
0.1318	486	486	100	Pass
0.1341	444	444	100	Pass
0.1363	414	414	100	Pass
0.1385	389	389	100	Pass
0.1407	363	363	100	Pass
0.1430	344	344	100	Pass
0.1452	310	310	100	Pass
0.1474	295	295	100	Pass
0.1497	279	279	100	Pass
0.1519	260	260	100	Pass
0.1541	246	246	100	Pass
0.1563	232	232	100	Pass
0.1586	216	216	100	Pass
0.1608	208	208	100	Pass

0.1630	191	191	100	Pass
0.1652	184	184	100	Pass
0.1675	175	175	100	Pass
0.1697	167	167	100	Pass
0.1719	163	163	100	Pass
0.1741	151	151	100	Pass
0.1764	143	143	100	Pass
0.1786	139	139	100	Pass
0.1808	132	132	100	Pass
0.1830	118	118	100	Pass
0.1853	107	107	100	Pass
0.1875	100	100	100	Pass
0.1897	97	97	100	Pass
0.1919	96	96	100	Pass
0.1942	90	90	100	Pass
0.1964	89	89	100	Pass
0.1986	88	88	100	Pass
0.2009	82	82	100	Pass
0.2031	79	79	100	Pass
0.2053	75	75	100	Pass
0.2075	70	70	100	Pass
0.2098	67	67	100	Pass
0.2120	65	65	100	Pass
0.2142	60	60	100	Pass
0.2164	55	55	100	Pass
0.2187	52	52	100	Pass
0.2209	49	49	100	Pass
0.2231	47	47	100	Pass
0.2253	44	44	100	Pass
0.2276	43	43	100	Pass
0.2298	43	43	100	Pass
0.2320	41	41	100	Pass
0.2342	40	40	100	Pass
0.2365	38	38	100	Pass
0.2387	34	34	100	Pass
0.2409	31	31	100	Pass
0.2432	27	27	100	Pass
0.2454	24	24	100	Pass
0.2476	23	23	100	Pass
0.2498	22	22	100	Pass
0.2521	22	22	100	Pass
0.2543	21	21	100	Pass
0.2565	20	20	100	Pass
0.2587	19	19	100	Pass
0.2610	17	17	100	Pass
0.2632	15	15	100	Pass
0.2654	15	15	100	Pass
0.2676	14	14	100	Pass
0.2699	12	12	100	Pass
0.2721	11	11	100	Pass
0.2743	10	10	100	Pass
0.2765	10	10	100	Pass
0.2788	10	10	100	Pass
0.2810	9	9	100	Pass
0.2832	9	9	100	Pass
0.2854	7	7	100	Pass
0.2877	7	7	100	Pass

0.2899	6	6	100	Pass
0.2921	5	5	100	Pass
0.2944	5	5	100	Pass
0.2966	5	5	100	Pass
0.2988	4	4	100	Pass
0.3010	4	4	100	Pass
0.3033	3	3	100	Pass
0.3055	3	3	100	Pass
0.3077	3	3	100	Pass
0.3099	3	3	100	Pass
0.3122	2	2	100	Pass
0.3144	2	2	100	Pass
0.3166	1	1	100	Pass
0.3188	1	1	100	Pass
0.3211	1	1	100	Pass
0.3233	0	0	100	Pass
0.3255	0	0	0	Pass
0.3277	0	0	0	Pass
0.3300	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #13
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 13

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	14.1516	14.1516	100.0	Pass
Feb	10.8618	10.8618	100.0	Pass
Mar	9.6611	9.6611	100.0	Pass
Apr	5.3948	5.3948	100.0	Pass
May	2.8756	2.8756	100.0	Pass
Jun	1.8980	1.8980	100.0	Pass
Jul	0.9298	0.9298	100.0	Pass
Aug	1.3717	1.3717	100.0	Pass
Sep	3.1534	3.1534	100.0	Pass
Oct	7.7777	7.7777	100.0	Pass
Nov	13.3663	13.3663	100.0	Pass
Dec	13.6499	13.6499	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4529	0.4529	100.0	Pass
2	0.3601	0.3601	100.0	Pass
3	0.4532	0.4532	100.0	Pass
4	0.5284	0.5284	100.0	Pass
5	0.3917	0.3917	100.0	Pass
6	0.5770	0.5770	100.0	Pass
7	0.4551	0.4551	100.0	Pass
8	0.4554	0.4554	100.0	Pass
9	0.4825	0.4825	100.0	Pass

10	0.4721	0.4721	100.0	Pass
11	0.5741	0.5741	100.0	Pass
12	0.4548	0.4548	100.0	Pass
13	0.5678	0.5678	100.0	Pass
14	0.5672	0.5672	100.0	Pass
15	0.5197	0.5197	100.0	Pass
16	0.4311	0.4311	100.0	Pass
17	0.4115	0.4115	100.0	Pass
18	0.3640	0.3640	100.0	Pass
19	0.3609	0.3609	100.0	Pass
20	0.2423	0.2423	100.0	Pass
21	0.4450	0.4450	100.0	Pass
22	0.5433	0.5433	100.0	Pass
23	0.6102	0.6102	100.0	Pass
24	0.4236	0.4236	100.0	Pass
25	0.3607	0.3607	100.0	Pass
26	0.3256	0.3256	100.0	Pass
27	0.4043	0.4043	100.0	Pass
28	0.5114	0.5114	100.0	Pass
29	0.3965	0.3965	100.0	Pass
30	0.4649	0.4649	100.0	Pass
31	0.2865	0.2865	100.0	Pass
Feb1	0.3216	0.3216	100.0	Pass
2	0.2931	0.2931	100.0	Pass
3	0.2659	0.2659	100.0	Pass
4	0.2462	0.2462	100.0	Pass
5	0.4439	0.4439	100.0	Pass
6	0.2332	0.2332	100.0	Pass
7	0.3293	0.3293	100.0	Pass
8	0.2542	0.2542	100.0	Pass
9	0.3014	0.3014	100.0	Pass
10	0.3983	0.3983	100.0	Pass
11	0.5256	0.5256	100.0	Pass
12	0.4188	0.4188	100.0	Pass
13	0.4450	0.4450	100.0	Pass
14	0.6173	0.6173	100.0	Pass
15	0.4595	0.4595	100.0	Pass
16	0.5921	0.5921	100.0	Pass
17	0.5260	0.5260	100.0	Pass
18	0.4203	0.4203	100.0	Pass
19	0.3653	0.3653	100.0	Pass
20	0.3509	0.3509	100.0	Pass
21	0.2881	0.2881	100.0	Pass
22	0.4145	0.4145	100.0	Pass
23	0.3958	0.3958	100.0	Pass
24	0.4349	0.4349	100.0	Pass
25	0.3922	0.3922	100.0	Pass
26	0.3850	0.3850	100.0	Pass
27	0.3398	0.3398	100.0	Pass
28	0.4556	0.4556	100.0	Pass
29	0.3264	0.3264	100.0	Pass
Mar1	0.3213	0.3213	100.0	Pass
2	0.2652	0.2652	100.0	Pass
3	0.3675	0.3675	100.0	Pass
4	0.3857	0.3857	100.0	Pass
5	0.3055	0.3055	100.0	Pass
6	0.3846	0.3846	100.0	Pass

7	0.3770	0.3770	100.0	Pass
8	0.3662	0.3662	100.0	Pass
9	0.3677	0.3677	100.0	Pass
10	0.3216	0.3216	100.0	Pass
11	0.3474	0.3474	100.0	Pass
12	0.3089	0.3089	100.0	Pass
13	0.3719	0.3719	100.0	Pass
14	0.2981	0.2981	100.0	Pass
15	0.2443	0.2443	100.0	Pass
16	0.2341	0.2341	100.0	Pass
17	0.3148	0.3148	100.0	Pass
18	0.1965	0.1965	100.0	Pass
19	0.2878	0.2878	100.0	Pass
20	0.2339	0.2339	100.0	Pass
21	0.3877	0.3877	100.0	Pass
22	0.4358	0.4358	100.0	Pass
23	0.3647	0.3647	100.0	Pass
24	0.2391	0.2391	100.0	Pass
25	0.3578	0.3578	100.0	Pass
26	0.2638	0.2638	100.0	Pass
27	0.2519	0.2519	100.0	Pass
28	0.2809	0.2809	100.0	Pass
29	0.2582	0.2582	100.0	Pass
30	0.1956	0.1956	100.0	Pass
31	0.1585	0.1585	100.0	Pass
Apr1	0.1672	0.1672	100.0	Pass
2	0.1869	0.1869	100.0	Pass
3	0.2549	0.2549	100.0	Pass
4	0.2325	0.2325	100.0	Pass
5	0.2511	0.2511	100.0	Pass
6	0.1387	0.1387	100.0	Pass
7	0.2225	0.2225	100.0	Pass
8	0.2248	0.2248	100.0	Pass
9	0.2006	0.2006	100.0	Pass
10	0.1984	0.1984	100.0	Pass
11	0.2692	0.2692	100.0	Pass
12	0.2332	0.2332	100.0	Pass
13	0.2431	0.2431	100.0	Pass
14	0.2088	0.2088	100.0	Pass
15	0.2224	0.2224	100.0	Pass
16	0.1280	0.1280	100.0	Pass
17	0.1705	0.1705	100.0	Pass
18	0.1950	0.1950	100.0	Pass
19	0.1082	0.1082	100.0	Pass
20	0.1039	0.1039	100.0	Pass
21	0.1710	0.1710	100.0	Pass
22	0.1448	0.1448	100.0	Pass
23	0.1271	0.1271	100.0	Pass
24	0.1027	0.1027	100.0	Pass
25	0.1220	0.1220	100.0	Pass
26	0.2030	0.2030	100.0	Pass
27	0.1589	0.1589	100.0	Pass
28	0.1649	0.1649	100.0	Pass
29	0.0826	0.0826	100.0	Pass
30	0.1078	0.1078	100.0	Pass
May1	0.1652	0.1652	100.0	Pass
2	0.1210	0.1210	100.0	Pass

3	0.1306	0.1306	100.0	Pass
4	0.1025	0.1025	100.0	Pass
5	0.0985	0.0985	100.0	Pass
6	0.0836	0.0836	100.0	Pass
7	0.1096	0.1096	100.0	Pass
8	0.0685	0.0685	100.0	Pass
9	0.0946	0.0946	100.0	Pass
10	0.0770	0.0770	100.0	Pass
11	0.0724	0.0724	100.0	Pass
12	0.1016	0.1016	100.0	Pass
13	0.1091	0.1091	100.0	Pass
14	0.1063	0.1063	100.0	Pass
15	0.0727	0.0727	100.0	Pass
16	0.0932	0.0932	100.0	Pass
17	0.0765	0.0765	100.0	Pass
18	0.1223	0.1223	100.0	Pass
19	0.0661	0.0661	100.0	Pass
20	0.0641	0.0641	100.0	Pass
21	0.0661	0.0661	100.0	Pass
22	0.0788	0.0788	100.0	Pass
23	0.0698	0.0698	100.0	Pass
24	0.0737	0.0737	100.0	Pass
25	0.0621	0.0621	100.0	Pass
26	0.1063	0.1063	100.0	Pass
27	0.0839	0.0839	100.0	Pass
28	0.0900	0.0900	100.0	Pass
29	0.1221	0.1221	100.0	Pass
30	0.0799	0.0799	100.0	Pass
31	0.0869	0.0869	100.0	Pass
Jun1	0.0663	0.0663	100.0	Pass
2	0.1064	0.1064	100.0	Pass
3	0.1001	0.1001	100.0	Pass
4	0.0748	0.0748	100.0	Pass
5	0.1212	0.1212	100.0	Pass
6	0.0473	0.0473	100.0	Pass
7	0.0707	0.0707	100.0	Pass
8	0.1001	0.1001	100.0	Pass
9	0.0759	0.0759	100.0	Pass
10	0.0722	0.0722	100.0	Pass
11	0.0525	0.0525	100.0	Pass
12	0.0638	0.0638	100.0	Pass
13	0.1005	0.1005	100.0	Pass
14	0.0424	0.0424	100.0	Pass
15	0.0828	0.0828	100.0	Pass
16	0.0371	0.0371	100.0	Pass
17	0.0511	0.0511	100.0	Pass
18	0.0354	0.0354	100.0	Pass
19	0.0417	0.0417	100.0	Pass
20	0.0460	0.0460	100.0	Pass
21	0.0441	0.0441	100.0	Pass
22	0.0254	0.0254	100.0	Pass
23	0.1244	0.1244	100.0	Pass
24	0.0342	0.0342	100.0	Pass
25	0.0565	0.0565	100.0	Pass
26	0.0344	0.0344	100.0	Pass
27	0.0311	0.0311	100.0	Pass
28	0.0319	0.0319	100.0	Pass

29	0.0411	0.0411	100.0	Pass
30	0.0876	0.0876	100.0	Pass
Jul11	0.0233	0.0233	100.0	Pass
2	0.0199	0.0199	100.0	Pass
3	0.0216	0.0216	100.0	Pass
4	0.0510	0.0510	100.0	Pass
5	0.0377	0.0377	100.0	Pass
6	0.0290	0.0290	100.0	Pass
7	0.0552	0.0552	100.0	Pass
8	0.0322	0.0322	100.0	Pass
9	0.0653	0.0653	100.0	Pass
10	0.0430	0.0430	100.0	Pass
11	0.0860	0.0860	100.0	Pass
12	0.0443	0.0443	100.0	Pass
13	0.0336	0.0336	100.0	Pass
14	0.0499	0.0499	100.0	Pass
15	0.0214	0.0214	100.0	Pass
16	0.0134	0.0134	100.0	Pass
17	0.0423	0.0423	100.0	Pass
18	0.0149	0.0149	100.0	Pass
19	0.0190	0.0190	100.0	Pass
20	0.0313	0.0313	100.0	Pass
21	0.0251	0.0251	100.0	Pass
22	0.0026	0.0026	100.0	Pass
23	0.0074	0.0074	100.0	Pass
24	0.0081	0.0081	100.0	Pass
25	0.0182	0.0182	100.0	Pass
26	0.0081	0.0081	100.0	Pass
27	0.0114	0.0114	100.0	Pass
28	0.0098	0.0098	100.0	Pass
29	0.0064	0.0064	100.0	Pass
30	0.0108	0.0108	100.0	Pass
31	0.0121	0.0121	100.0	Pass
Aug1	0.0491	0.0491	100.0	Pass
2	0.0180	0.0180	100.0	Pass
3	0.0078	0.0078	100.0	Pass
4	0.0071	0.0071	100.0	Pass
5	0.0561	0.0561	100.0	Pass
6	0.0390	0.0390	100.0	Pass
7	0.0146	0.0146	100.0	Pass
8	0.0144	0.0144	100.0	Pass
9	0.0016	0.0016	100.0	Pass
10	0.0078	0.0078	100.0	Pass
11	0.0357	0.0357	100.0	Pass
12	0.0314	0.0314	100.0	Pass
13	0.0390	0.0390	100.0	Pass
14	0.0242	0.0242	100.0	Pass
15	0.0222	0.0222	100.0	Pass
16	0.0195	0.0195	100.0	Pass
17	0.0365	0.0365	100.0	Pass
18	0.0683	0.0683	100.0	Pass
19	0.0203	0.0203	100.0	Pass
20	0.0540	0.0540	100.0	Pass
21	0.0498	0.0498	100.0	Pass
22	0.0966	0.0966	100.0	Pass
23	0.0909	0.0909	100.0	Pass
24	0.0794	0.0794	100.0	Pass

25	0.0340	0.0340	100.0	Pass
26	0.0930	0.0930	100.0	Pass
27	0.0954	0.0954	100.0	Pass
28	0.0955	0.0955	100.0	Pass
29	0.0620	0.0620	100.0	Pass
30	0.0965	0.0965	100.0	Pass
31	0.1528	0.1528	100.0	Pass
Sep1	0.0624	0.0624	100.0	Pass
2	0.0622	0.0622	100.0	Pass
3	0.0672	0.0672	100.0	Pass
4	0.0834	0.0834	100.0	Pass
5	0.0713	0.0713	100.0	Pass
6	0.0503	0.0503	100.0	Pass
7	0.0938	0.0938	100.0	Pass
8	0.0609	0.0609	100.0	Pass
9	0.1524	0.1524	100.0	Pass
10	0.0376	0.0376	100.0	Pass
11	0.0320	0.0320	100.0	Pass
12	0.0823	0.0823	100.0	Pass
13	0.1508	0.1508	100.0	Pass
14	0.0985	0.0985	100.0	Pass
15	0.1478	0.1478	100.0	Pass
16	0.1573	0.1573	100.0	Pass
17	0.1704	0.1704	100.0	Pass
18	0.1534	0.1534	100.0	Pass
19	0.1649	0.1649	100.0	Pass
20	0.1219	0.1219	100.0	Pass
21	0.1670	0.1670	100.0	Pass
22	0.1340	0.1340	100.0	Pass
23	0.1072	0.1072	100.0	Pass
24	0.0769	0.0769	100.0	Pass
25	0.0810	0.0810	100.0	Pass
26	0.0811	0.0811	100.0	Pass
27	0.1104	0.1104	100.0	Pass
28	0.0963	0.0963	100.0	Pass
29	0.1264	0.1264	100.0	Pass
30	0.0925	0.0925	100.0	Pass
Oct1	0.0668	0.0668	100.0	Pass
2	0.1605	0.1605	100.0	Pass
3	0.1444	0.1444	100.0	Pass
4	0.1778	0.1778	100.0	Pass
5	0.1888	0.1888	100.0	Pass
6	0.2075	0.2075	100.0	Pass
7	0.2665	0.2665	100.0	Pass
8	0.2188	0.2188	100.0	Pass
9	0.1713	0.1713	100.0	Pass
10	0.1406	0.1406	100.0	Pass
11	0.2596	0.2596	100.0	Pass
12	0.1779	0.1779	100.0	Pass
13	0.2444	0.2444	100.0	Pass
14	0.1433	0.1433	100.0	Pass
15	0.1680	0.1680	100.0	Pass
16	0.2227	0.2227	100.0	Pass
17	0.2050	0.2050	100.0	Pass
18	0.3263	0.3263	100.0	Pass
19	0.4025	0.4025	100.0	Pass
20	0.3478	0.3478	100.0	Pass

21	0.4195	0.4195	100.0	Pass
22	0.2529	0.2529	100.0	Pass
23	0.4083	0.4083	100.0	Pass
24	0.3604	0.3604	100.0	Pass
25	0.3230	0.3230	100.0	Pass
26	0.3894	0.3894	100.0	Pass
27	0.3336	0.3336	100.0	Pass
28	0.3102	0.3102	100.0	Pass
29	0.2640	0.2640	100.0	Pass
30	0.3844	0.3844	100.0	Pass
31	0.3268	0.3268	100.0	Pass
Nov1	0.4100	0.4100	100.0	Pass
2	0.4914	0.4914	100.0	Pass
3	0.3891	0.3891	100.0	Pass
4	0.3915	0.3915	100.0	Pass
5	0.4331	0.4331	100.0	Pass
6	0.3638	0.3638	100.0	Pass
7	0.3300	0.3300	100.0	Pass
8	0.4209	0.4209	100.0	Pass
9	0.4974	0.4974	100.0	Pass
10	0.4289	0.4289	100.0	Pass
11	0.4779	0.4779	100.0	Pass
12	0.4423	0.4423	100.0	Pass
13	0.3364	0.3364	100.0	Pass
14	0.3896	0.3896	100.0	Pass
15	0.4353	0.4353	100.0	Pass
16	0.4555	0.4555	100.0	Pass
17	0.4176	0.4176	100.0	Pass
18	0.6092	0.6092	100.0	Pass
19	0.5472	0.5472	100.0	Pass
20	0.3670	0.3670	100.0	Pass
21	0.5688	0.5688	100.0	Pass
22	0.6692	0.6692	100.0	Pass
23	0.5161	0.5161	100.0	Pass
24	0.5882	0.5882	100.0	Pass
25	0.3936	0.3936	100.0	Pass
26	0.3191	0.3191	100.0	Pass
27	0.3834	0.3834	100.0	Pass
28	0.3664	0.3664	100.0	Pass
29	0.6014	0.6014	100.0	Pass
30	0.4856	0.4856	100.0	Pass
Dec1	0.5340	0.5340	100.0	Pass
2	0.5184	0.5184	100.0	Pass
3	0.3370	0.3370	100.0	Pass
4	0.3700	0.3700	100.0	Pass
5	0.3191	0.3191	100.0	Pass
6	0.2763	0.2763	100.0	Pass
7	0.3937	0.3937	100.0	Pass
8	0.4943	0.4943	100.0	Pass
9	0.4917	0.4917	100.0	Pass
10	0.5324	0.5324	100.0	Pass
11	0.3905	0.3905	100.0	Pass
12	0.4218	0.4218	100.0	Pass
13	0.6203	0.6203	100.0	Pass
14	0.4375	0.4375	100.0	Pass
15	0.5657	0.5657	100.0	Pass
16	0.3865	0.3865	100.0	Pass

17	0.4570	0.4570	100.0	Pass
18	0.3780	0.3780	100.0	Pass
19	0.4398	0.4398	100.0	Pass
20	0.4322	0.4322	100.0	Pass
21	0.4760	0.4760	100.0	Pass
22	0.4671	0.4671	100.0	Pass
23	0.5078	0.5078	100.0	Pass
24	0.5612	0.5612	100.0	Pass
25	0.4901	0.4901	100.0	Pass
26	0.4486	0.4486	100.0	Pass
27	0.3029	0.3029	100.0	Pass
28	0.4714	0.4714	100.0	Pass
29	0.3160	0.3160	100.0	Pass
30	0.3279	0.3279	100.0	Pass
31	0.5455	0.5455	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #14
Total Pervious Area:0
Total Impervious Area:0.083

Mitigated Landuse Totals for POC #14
Total Pervious Area:0
Total Impervious Area:0.083

Flow Frequency Return Periods for Predeveloped. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.060751
5 year	0.071552
10 year	0.077507
25 year	0.084058
50 year	0.088385
100 year	0.092331

Flow Frequency Return Periods for Mitigated. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.060751
5 year	0.071552
10 year	0.077507
25 year	0.084058
50 year	0.088385
100 year	0.092331

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #14

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.062	0.062
1957	0.079	0.079

1958	0.062	0.062
1959	0.060	0.060
1960	0.062	0.062
1961	0.054	0.054
1962	0.082	0.082
1963	0.075	0.075
1964	0.067	0.067
1965	0.066	0.066
1966	0.063	0.063
1967	0.042	0.042
1968	0.062	0.062
1969	0.058	0.058
1970	0.058	0.058
1971	0.084	0.084
1972	0.070	0.070
1973	0.068	0.068
1974	0.063	0.063
1975	0.057	0.057
1976	0.069	0.069
1977	0.051	0.051
1978	0.089	0.089
1979	0.055	0.055
1980	0.052	0.052
1981	0.066	0.066
1982	0.076	0.076
1983	0.060	0.060
1984	0.055	0.055
1985	0.044	0.044
1986	0.066	0.066
1987	0.047	0.047
1988	0.070	0.070
1989	0.060	0.060
1990	0.076	0.076
1991	0.053	0.053
1992	0.041	0.041
1993	0.046	0.046
1994	0.056	0.056
1995	0.058	0.058
1996	0.070	0.070
1997	0.066	0.066
1998	0.043	0.043
1999	0.052	0.052
2000	0.050	0.050
2001	0.049	0.049
2002	0.077	0.077
2003	0.079	0.079
2004	0.075	0.075
2005	0.060	0.060
2006	0.061	0.061
2007	0.071	0.071
2008	0.039	0.039
2009	0.037	0.037

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #14

Rank Predeveloped Mitigated

1	0.0886	0.0886
2	0.0838	0.0838
3	0.0816	0.0816
4	0.0795	0.0795
5	0.0794	0.0794
6	0.0771	0.0771
7	0.0760	0.0760
8	0.0757	0.0757
9	0.0755	0.0755
10	0.0746	0.0746
11	0.0708	0.0708
12	0.0702	0.0702
13	0.0701	0.0701
14	0.0700	0.0700
15	0.0691	0.0691
16	0.0677	0.0677
17	0.0669	0.0669
18	0.0664	0.0664
19	0.0661	0.0661
20	0.0660	0.0660
21	0.0657	0.0657
22	0.0635	0.0635
23	0.0631	0.0631
24	0.0624	0.0624
25	0.0623	0.0623
26	0.0619	0.0619
27	0.0619	0.0619
28	0.0606	0.0606
29	0.0599	0.0599
30	0.0599	0.0599
31	0.0598	0.0598
32	0.0597	0.0597
33	0.0582	0.0582
34	0.0581	0.0581
35	0.0576	0.0576
36	0.0569	0.0569
37	0.0564	0.0564
38	0.0552	0.0552
39	0.0548	0.0548
40	0.0535	0.0535
41	0.0533	0.0533
42	0.0523	0.0523
43	0.0516	0.0516
44	0.0510	0.0510
45	0.0496	0.0496
46	0.0486	0.0486
47	0.0466	0.0466
48	0.0463	0.0463
49	0.0438	0.0438
50	0.0433	0.0433
51	0.0419	0.0419
52	0.0415	0.0415
53	0.0390	0.0390
54	0.0371	0.0371

Stream Protection Duration

POC #14

The Facility PASSED

The Facility **PASSED.**

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0304	1214	1214	100	Pass
0.0310	1129	1129	100	Pass
0.0315	1060	1060	100	Pass
0.0321	985	985	100	Pass
0.0327	925	925	100	Pass
0.0333	862	862	100	Pass
0.0339	793	793	100	Pass
0.0345	735	735	100	Pass
0.0351	681	681	100	Pass
0.0356	631	631	100	Pass
0.0362	579	579	100	Pass
0.0368	538	538	100	Pass
0.0374	499	499	100	Pass
0.0380	467	467	100	Pass
0.0386	425	425	100	Pass
0.0392	395	395	100	Pass
0.0398	367	367	100	Pass
0.0403	346	346	100	Pass
0.0409	326	326	100	Pass
0.0415	305	305	100	Pass
0.0421	288	288	100	Pass
0.0427	272	272	100	Pass
0.0433	255	255	100	Pass
0.0439	236	236	100	Pass
0.0444	226	226	100	Pass
0.0450	217	217	100	Pass
0.0456	210	210	100	Pass
0.0462	196	196	100	Pass
0.0468	189	189	100	Pass
0.0474	178	178	100	Pass
0.0480	169	169	100	Pass
0.0485	161	161	100	Pass
0.0491	154	154	100	Pass
0.0497	141	141	100	Pass
0.0503	131	131	100	Pass
0.0509	123	123	100	Pass
0.0515	115	115	100	Pass
0.0521	110	110	100	Pass
0.0526	106	106	100	Pass
0.0532	102	102	100	Pass
0.0538	96	96	100	Pass
0.0544	94	94	100	Pass
0.0550	86	86	100	Pass
0.0556	80	80	100	Pass
0.0562	76	76	100	Pass
0.0567	71	71	100	Pass
0.0573	68	68	100	Pass
0.0579	63	63	100	Pass
0.0585	60	60	100	Pass
0.0591	56	56	100	Pass
0.0597	55	55	100	Pass

0.0603	50	50	100	Pass
0.0608	48	48	100	Pass
0.0614	47	47	100	Pass
0.0620	45	45	100	Pass
0.0626	39	39	100	Pass
0.0632	35	35	100	Pass
0.0638	34	34	100	Pass
0.0644	34	34	100	Pass
0.0649	33	33	100	Pass
0.0655	32	32	100	Pass
0.0661	29	29	100	Pass
0.0667	27	27	100	Pass
0.0673	26	26	100	Pass
0.0679	24	24	100	Pass
0.0685	24	24	100	Pass
0.0690	24	24	100	Pass
0.0696	23	23	100	Pass
0.0702	17	17	100	Pass
0.0708	17	17	100	Pass
0.0714	15	15	100	Pass
0.0720	14	14	100	Pass
0.0726	13	13	100	Pass
0.0732	12	12	100	Pass
0.0737	12	12	100	Pass
0.0743	12	12	100	Pass
0.0749	11	11	100	Pass
0.0755	9	9	100	Pass
0.0761	7	7	100	Pass
0.0767	7	7	100	Pass
0.0773	6	6	100	Pass
0.0778	6	6	100	Pass
0.0784	6	6	100	Pass
0.0790	5	5	100	Pass
0.0796	3	3	100	Pass
0.0802	3	3	100	Pass
0.0808	3	3	100	Pass
0.0814	3	3	100	Pass
0.0819	2	2	100	Pass
0.0825	2	2	100	Pass
0.0831	2	2	100	Pass
0.0837	2	2	100	Pass
0.0843	1	1	100	Pass
0.0849	1	1	100	Pass
0.0855	1	1	100	Pass
0.0860	1	1	100	Pass
0.0866	1	1	100	Pass
0.0872	1	1	100	Pass
0.0878	1	1	100	Pass
0.0884	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #14

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 14

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	3.6589	3.6589	100.0	Pass
Feb	2.7935	2.7935	100.0	Pass
Mar	2.4934	2.4934	100.0	Pass
Apr	1.4186	1.4186	100.0	Pass
May	0.7999	0.7999	100.0	Pass
Jun	0.5427	0.5427	100.0	Pass
Jul	0.2740	0.2740	100.0	Pass
Aug	0.4122	0.4122	100.0	Pass
Sep	0.9063	0.9063	100.0	Pass
Oct	2.1417	2.1417	100.0	Pass
Nov	3.5163	3.5163	100.0	Pass
Dec	3.5265	3.5265	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.1178	0.1178	100.0	Pass
2	0.0905	0.0905	100.0	Pass
3	0.1190	0.1190	100.0	Pass
4	0.1423	0.1423	100.0	Pass
5	0.0981	0.0981	100.0	Pass
6	0.1560	0.1560	100.0	Pass
7	0.1149	0.1149	100.0	Pass
8	0.1169	0.1169	100.0	Pass
9	0.1271	0.1271	100.0	Pass
10	0.1212	0.1212	100.0	Pass
11	0.1509	0.1509	100.0	Pass
12	0.1143	0.1143	100.0	Pass
13	0.1492	0.1492	100.0	Pass
14	0.1471	0.1471	100.0	Pass
15	0.1325	0.1325	100.0	Pass
16	0.1053	0.1053	100.0	Pass
17	0.1021	0.1021	100.0	Pass
18	0.0901	0.0901	100.0	Pass
19	0.0920	0.0920	100.0	Pass
20	0.0572	0.0572	100.0	Pass
21	0.1243	0.1243	100.0	Pass
22	0.1457	0.1457	100.0	Pass
23	0.1609	0.1609	100.0	Pass
24	0.1038	0.1038	100.0	Pass
25	0.0880	0.0880	100.0	Pass
26	0.0795	0.0795	100.0	Pass
27	0.1063	0.1063	100.0	Pass
28	0.1363	0.1363	100.0	Pass
29	0.0998	0.0998	100.0	Pass
30	0.1220	0.1220	100.0	Pass
31	0.0679	0.0679	100.0	Pass
Feb1	0.0813	0.0813	100.0	Pass
2	0.0753	0.0753	100.0	Pass
3	0.0671	0.0671	100.0	Pass
4	0.0622	0.0622	100.0	Pass
5	0.1217	0.1217	100.0	Pass

6	0.0547	0.0547	100.0	Pass
7	0.0874	0.0874	100.0	Pass
8	0.0639	0.0639	100.0	Pass
9	0.0805	0.0805	100.0	Pass
10	0.1086	0.1086	100.0	Pass
11	0.1413	0.1413	100.0	Pass
12	0.1058	0.1058	100.0	Pass
13	0.1164	0.1164	100.0	Pass
14	0.1677	0.1677	100.0	Pass
15	0.1141	0.1141	100.0	Pass
16	0.1567	0.1567	100.0	Pass
17	0.1343	0.1343	100.0	Pass
18	0.1015	0.1015	100.0	Pass
19	0.0891	0.0891	100.0	Pass
20	0.0872	0.0872	100.0	Pass
21	0.0715	0.0715	100.0	Pass
22	0.1096	0.1096	100.0	Pass
23	0.1028	0.1028	100.0	Pass
24	0.1135	0.1135	100.0	Pass
25	0.0996	0.0996	100.0	Pass
26	0.0972	0.0972	100.0	Pass
27	0.0849	0.0849	100.0	Pass
28	0.1169	0.1169	100.0	Pass
29	0.0827	0.0827	100.0	Pass
Mar1	0.0824	0.0824	100.0	Pass
2	0.0661	0.0661	100.0	Pass
3	0.0978	0.0978	100.0	Pass
4	0.1016	0.1016	100.0	Pass
5	0.0778	0.0778	100.0	Pass
6	0.0999	0.0999	100.0	Pass
7	0.0998	0.0998	100.0	Pass
8	0.0947	0.0947	100.0	Pass
9	0.0950	0.0950	100.0	Pass
10	0.0811	0.0811	100.0	Pass
11	0.0895	0.0895	100.0	Pass
12	0.0791	0.0791	100.0	Pass
13	0.0975	0.0975	100.0	Pass
14	0.0750	0.0750	100.0	Pass
15	0.0606	0.0606	100.0	Pass
16	0.0597	0.0597	100.0	Pass
17	0.0825	0.0825	100.0	Pass
18	0.0479	0.0479	100.0	Pass
19	0.0771	0.0771	100.0	Pass
20	0.0603	0.0603	100.0	Pass
21	0.1064	0.1064	100.0	Pass
22	0.1183	0.1183	100.0	Pass
23	0.0929	0.0929	100.0	Pass
24	0.0558	0.0558	100.0	Pass
25	0.0952	0.0952	100.0	Pass
26	0.0652	0.0652	100.0	Pass
27	0.0649	0.0649	100.0	Pass
28	0.0722	0.0722	100.0	Pass
29	0.0667	0.0667	100.0	Pass
30	0.0481	0.0481	100.0	Pass
31	0.0390	0.0390	100.0	Pass
Apr1	0.0431	0.0431	100.0	Pass
2	0.0494	0.0494	100.0	Pass

3	0.0709	0.0709	100.0	Pass
4	0.0616	0.0616	100.0	Pass
5	0.0650	0.0650	100.0	Pass
6	0.0326	0.0326	100.0	Pass
7	0.0606	0.0606	100.0	Pass
8	0.0592	0.0592	100.0	Pass
9	0.0533	0.0533	100.0	Pass
10	0.0511	0.0511	100.0	Pass
11	0.0748	0.0748	100.0	Pass
12	0.0611	0.0611	100.0	Pass
13	0.0649	0.0649	100.0	Pass
14	0.0538	0.0538	100.0	Pass
15	0.0576	0.0576	100.0	Pass
16	0.0298	0.0298	100.0	Pass
17	0.0454	0.0454	100.0	Pass
18	0.0527	0.0527	100.0	Pass
19	0.0254	0.0254	100.0	Pass
20	0.0266	0.0266	100.0	Pass
21	0.0479	0.0479	100.0	Pass
22	0.0392	0.0392	100.0	Pass
23	0.0332	0.0332	100.0	Pass
24	0.0264	0.0264	100.0	Pass
25	0.0335	0.0335	100.0	Pass
26	0.0559	0.0559	100.0	Pass
27	0.0420	0.0420	100.0	Pass
28	0.0435	0.0435	100.0	Pass
29	0.0191	0.0191	100.0	Pass
30	0.0292	0.0292	100.0	Pass
May1	0.0473	0.0473	100.0	Pass
2	0.0319	0.0319	100.0	Pass
3	0.0360	0.0360	100.0	Pass
4	0.0268	0.0268	100.0	Pass
5	0.0264	0.0264	100.0	Pass
6	0.0225	0.0225	100.0	Pass
7	0.0307	0.0307	100.0	Pass
8	0.0177	0.0177	100.0	Pass
9	0.0267	0.0267	100.0	Pass
10	0.0213	0.0213	100.0	Pass
11	0.0203	0.0203	100.0	Pass
12	0.0289	0.0289	100.0	Pass
13	0.0310	0.0310	100.0	Pass
14	0.0302	0.0302	100.0	Pass
15	0.0187	0.0187	100.0	Pass
16	0.0265	0.0265	100.0	Pass
17	0.0208	0.0208	100.0	Pass
18	0.0361	0.0361	100.0	Pass
19	0.0175	0.0175	100.0	Pass
20	0.0180	0.0180	100.0	Pass
21	0.0186	0.0186	100.0	Pass
22	0.0231	0.0231	100.0	Pass
23	0.0197	0.0197	100.0	Pass
24	0.0207	0.0207	100.0	Pass
25	0.0170	0.0170	100.0	Pass
26	0.0310	0.0310	100.0	Pass
27	0.0234	0.0234	100.0	Pass
28	0.0256	0.0256	100.0	Pass
29	0.0348	0.0348	100.0	Pass

30	0.0216	0.0216	100.0	Pass
31	0.0238	0.0238	100.0	Pass
Jun1	0.0172	0.0172	100.0	Pass
2	0.0315	0.0315	100.0	Pass
3	0.0292	0.0292	100.0	Pass
4	0.0208	0.0208	100.0	Pass
5	0.0355	0.0355	100.0	Pass
6	0.0116	0.0116	100.0	Pass
7	0.0195	0.0195	100.0	Pass
8	0.0289	0.0289	100.0	Pass
9	0.0213	0.0213	100.0	Pass
10	0.0208	0.0208	100.0	Pass
11	0.0146	0.0146	100.0	Pass
12	0.0188	0.0188	100.0	Pass
13	0.0299	0.0299	100.0	Pass
14	0.0110	0.0110	100.0	Pass
15	0.0241	0.0241	100.0	Pass
16	0.0094	0.0094	100.0	Pass
17	0.0144	0.0144	100.0	Pass
18	0.0092	0.0092	100.0	Pass
19	0.0122	0.0122	100.0	Pass
20	0.0139	0.0139	100.0	Pass
21	0.0128	0.0128	100.0	Pass
22	0.0069	0.0069	100.0	Pass
23	0.0390	0.0390	100.0	Pass
24	0.0082	0.0082	100.0	Pass
25	0.0166	0.0166	100.0	Pass
26	0.0099	0.0099	100.0	Pass
27	0.0094	0.0094	100.0	Pass
28	0.0097	0.0097	100.0	Pass
29	0.0128	0.0128	100.0	Pass
30	0.0268	0.0268	100.0	Pass
Jul1	0.0060	0.0060	100.0	Pass
2	0.0056	0.0056	100.0	Pass
3	0.0066	0.0066	100.0	Pass
4	0.0165	0.0165	100.0	Pass
5	0.0119	0.0119	100.0	Pass
6	0.0090	0.0090	100.0	Pass
7	0.0169	0.0169	100.0	Pass
8	0.0089	0.0089	100.0	Pass
9	0.0201	0.0201	100.0	Pass
10	0.0125	0.0125	100.0	Pass
11	0.0251	0.0251	100.0	Pass
12	0.0106	0.0106	100.0	Pass
13	0.0087	0.0087	100.0	Pass
14	0.0146	0.0146	100.0	Pass
15	0.0057	0.0057	100.0	Pass
16	0.0036	0.0036	100.0	Pass
17	0.0129	0.0129	100.0	Pass
18	0.0038	0.0038	100.0	Pass
19	0.0055	0.0055	100.0	Pass
20	0.0097	0.0097	100.0	Pass
21	0.0073	0.0073	100.0	Pass
22	0.0002	0.0002	100.0	Pass
23	0.0021	0.0021	100.0	Pass
24	0.0025	0.0025	100.0	Pass
25	0.0059	0.0059	100.0	Pass

26	0.0026	0.0026	100.0	Pass
27	0.0037	0.0037	100.0	Pass
28	0.0031	0.0031	100.0	Pass
29	0.0020	0.0020	100.0	Pass
30	0.0035	0.0035	100.0	Pass
31	0.0039	0.0039	100.0	Pass
Aug1	0.0159	0.0159	100.0	Pass
2	0.0052	0.0052	100.0	Pass
3	0.0020	0.0020	100.0	Pass
4	0.0020	0.0020	100.0	Pass
5	0.0178	0.0178	100.0	Pass
6	0.0118	0.0118	100.0	Pass
7	0.0040	0.0040	100.0	Pass
8	0.0043	0.0043	100.0	Pass
9	0.0003	0.0003	100.0	Pass
10	0.0024	0.0024	100.0	Pass
11	0.0116	0.0116	100.0	Pass
12	0.0100	0.0100	100.0	Pass
13	0.0123	0.0123	100.0	Pass
14	0.0071	0.0071	100.0	Pass
15	0.0063	0.0063	100.0	Pass
16	0.0059	0.0059	100.0	Pass
17	0.0117	0.0117	100.0	Pass
18	0.0220	0.0220	100.0	Pass
19	0.0055	0.0055	100.0	Pass
20	0.0171	0.0171	100.0	Pass
21	0.0151	0.0151	100.0	Pass
22	0.0299	0.0299	100.0	Pass
23	0.0270	0.0270	100.0	Pass
24	0.0217	0.0217	100.0	Pass
25	0.0082	0.0082	100.0	Pass
26	0.0284	0.0284	100.0	Pass
27	0.0283	0.0283	100.0	Pass
28	0.0276	0.0276	100.0	Pass
29	0.0175	0.0175	100.0	Pass
30	0.0294	0.0294	100.0	Pass
31	0.0458	0.0458	100.0	Pass
Sep1	0.0155	0.0155	100.0	Pass
2	0.0168	0.0168	100.0	Pass
3	0.0191	0.0191	100.0	Pass
4	0.0247	0.0247	100.0	Pass
5	0.0207	0.0207	100.0	Pass
6	0.0143	0.0143	100.0	Pass
7	0.0290	0.0290	100.0	Pass
8	0.0176	0.0176	100.0	Pass
9	0.0475	0.0475	100.0	Pass
10	0.0097	0.0097	100.0	Pass
11	0.0090	0.0090	100.0	Pass
12	0.0254	0.0254	100.0	Pass
13	0.0461	0.0461	100.0	Pass
14	0.0280	0.0280	100.0	Pass
15	0.0440	0.0440	100.0	Pass
16	0.0447	0.0447	100.0	Pass
17	0.0498	0.0498	100.0	Pass
18	0.0442	0.0442	100.0	Pass
19	0.0467	0.0467	100.0	Pass
20	0.0323	0.0323	100.0	Pass

21	0.0460	0.0460	100.0	Pass
22	0.0364	0.0364	100.0	Pass
23	0.0292	0.0292	100.0	Pass
24	0.0208	0.0208	100.0	Pass
25	0.0233	0.0233	100.0	Pass
26	0.0233	0.0233	100.0	Pass
27	0.0315	0.0315	100.0	Pass
28	0.0279	0.0279	100.0	Pass
29	0.0373	0.0373	100.0	Pass
30	0.0256	0.0256	100.0	Pass
Oct1	0.0179	0.0179	100.0	Pass
2	0.0489	0.0489	100.0	Pass
3	0.0426	0.0426	100.0	Pass
4	0.0517	0.0517	100.0	Pass
5	0.0547	0.0547	100.0	Pass
6	0.0604	0.0604	100.0	Pass
7	0.0769	0.0769	100.0	Pass
8	0.0606	0.0606	100.0	Pass
9	0.0462	0.0462	100.0	Pass
10	0.0377	0.0377	100.0	Pass
11	0.0763	0.0763	100.0	Pass
12	0.0487	0.0487	100.0	Pass
13	0.0707	0.0707	100.0	Pass
14	0.0369	0.0369	100.0	Pass
15	0.0462	0.0462	100.0	Pass
16	0.0622	0.0622	100.0	Pass
17	0.0565	0.0565	100.0	Pass
18	0.0919	0.0919	100.0	Pass
19	0.1119	0.1119	100.0	Pass
20	0.0955	0.0955	100.0	Pass
21	0.1157	0.1157	100.0	Pass
22	0.0628	0.0628	100.0	Pass
23	0.1124	0.1124	100.0	Pass
24	0.0967	0.0967	100.0	Pass
25	0.0854	0.0854	100.0	Pass
26	0.1060	0.1060	100.0	Pass
27	0.0872	0.0872	100.0	Pass
28	0.0816	0.0816	100.0	Pass
29	0.0678	0.0678	100.0	Pass
30	0.1063	0.1063	100.0	Pass
31	0.0859	0.0859	100.0	Pass
Nov1	0.1102	0.1102	100.0	Pass
2	0.1366	0.1366	100.0	Pass
3	0.0997	0.0997	100.0	Pass
4	0.1038	0.1038	100.0	Pass
5	0.1152	0.1152	100.0	Pass
6	0.0932	0.0932	100.0	Pass
7	0.0847	0.0847	100.0	Pass
8	0.1146	0.1146	100.0	Pass
9	0.1349	0.1349	100.0	Pass
10	0.1124	0.1124	100.0	Pass
11	0.1272	0.1272	100.0	Pass
12	0.1174	0.1174	100.0	Pass
13	0.0830	0.0830	100.0	Pass
14	0.1029	0.1029	100.0	Pass
15	0.1159	0.1159	100.0	Pass
16	0.1217	0.1217	100.0	Pass

17	0.1090	0.1090	100.0	Pass
18	0.1652	0.1652	100.0	Pass
19	0.1431	0.1431	100.0	Pass
20	0.0892	0.0892	100.0	Pass
21	0.1519	0.1519	100.0	Pass
22	0.1827	0.1827	100.0	Pass
23	0.1308	0.1308	100.0	Pass
24	0.1536	0.1536	100.0	Pass
25	0.0944	0.0944	100.0	Pass
26	0.0766	0.0766	100.0	Pass
27	0.1004	0.1004	100.0	Pass
28	0.0957	0.0957	100.0	Pass
29	0.1649	0.1649	100.0	Pass
30	0.1247	0.1247	100.0	Pass
Dec1	0.1405	0.1405	100.0	Pass
2	0.1334	0.1334	100.0	Pass
3	0.0809	0.0809	100.0	Pass
4	0.0949	0.0949	100.0	Pass
5	0.0792	0.0792	100.0	Pass
6	0.0702	0.0702	100.0	Pass
7	0.1065	0.1065	100.0	Pass
8	0.1341	0.1341	100.0	Pass
9	0.1294	0.1294	100.0	Pass
10	0.1389	0.1389	100.0	Pass
11	0.0980	0.0980	100.0	Pass
12	0.1092	0.1092	100.0	Pass
13	0.1693	0.1693	100.0	Pass
14	0.1080	0.1080	100.0	Pass
15	0.1506	0.1506	100.0	Pass
16	0.0938	0.0938	100.0	Pass
17	0.1188	0.1188	100.0	Pass
18	0.0954	0.0954	100.0	Pass
19	0.1169	0.1169	100.0	Pass
20	0.1116	0.1116	100.0	Pass
21	0.1229	0.1229	100.0	Pass
22	0.1216	0.1216	100.0	Pass
23	0.1334	0.1334	100.0	Pass
24	0.1495	0.1495	100.0	Pass
25	0.1240	0.1240	100.0	Pass
26	0.1125	0.1125	100.0	Pass
27	0.0727	0.0727	100.0	Pass
28	0.1258	0.1258	100.0	Pass
29	0.0765	0.0765	100.0	Pass
30	0.0837	0.0837	100.0	Pass
31	0.1483	0.1483	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #15
Total Pervious Area:0
Total Impervious Area:0.099

Mitigated Landuse Totals for POC #15
 Total Pervious Area:0
 Total Impervious Area:0.099

Flow Frequency Return Periods for Predeveloped. POC #15

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.072462
5 year	0.085345
10 year	0.092448
25 year	0.100262
50 year	0.105423
100 year	0.11013

Flow Frequency Return Periods for Mitigated. POC #15

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.072462
5 year	0.085345
10 year	0.092448
25 year	0.100262
50 year	0.105423
100 year	0.11013

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #15

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.074	0.074
1957	0.095	0.095
1958	0.074	0.074
1959	0.071	0.071
1960	0.074	0.074
1961	0.064	0.064
1962	0.097	0.097
1963	0.090	0.090
1964	0.080	0.080
1965	0.078	0.078
1966	0.076	0.076
1967	0.050	0.050
1968	0.074	0.074
1969	0.069	0.069
1970	0.069	0.069
1971	0.100	0.100
1972	0.084	0.084
1973	0.081	0.081
1974	0.075	0.075
1975	0.068	0.068
1976	0.082	0.082
1977	0.061	0.061
1978	0.106	0.106
1979	0.066	0.066
1980	0.062	0.062
1981	0.079	0.079
1982	0.091	0.091
1983	0.071	0.071
1984	0.065	0.065

1985	0.052	0.052
1986	0.079	0.079
1987	0.056	0.056
1988	0.083	0.083
1989	0.071	0.071
1990	0.090	0.090
1991	0.064	0.064
1992	0.049	0.049
1993	0.055	0.055
1994	0.067	0.067
1995	0.069	0.069
1996	0.084	0.084
1997	0.079	0.079
1998	0.052	0.052
1999	0.062	0.062
2000	0.059	0.059
2001	0.058	0.058
2002	0.092	0.092
2003	0.095	0.095
2004	0.089	0.089
2005	0.071	0.071
2006	0.072	0.072
2007	0.084	0.084
2008	0.046	0.046
2009	0.044	0.044

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #15

Rank	Predeveloped	Mitigated
1	0.1057	0.1057
2	0.0999	0.0999
3	0.0974	0.0974
4	0.0948	0.0948
5	0.0947	0.0947
6	0.0920	0.0920
7	0.0906	0.0906
8	0.0903	0.0903
9	0.0900	0.0900
10	0.0890	0.0890
11	0.0845	0.0845
12	0.0837	0.0837
13	0.0836	0.0836
14	0.0835	0.0835
15	0.0824	0.0824
16	0.0808	0.0808
17	0.0797	0.0797
18	0.0791	0.0791
19	0.0789	0.0789
20	0.0787	0.0787
21	0.0783	0.0783
22	0.0757	0.0757
23	0.0753	0.0753
24	0.0744	0.0744
25	0.0743	0.0743
26	0.0739	0.0739
27	0.0738	0.0738

28	0.0723	0.0723
29	0.0715	0.0715
30	0.0714	0.0714
31	0.0713	0.0713
32	0.0712	0.0712
33	0.0694	0.0694
34	0.0693	0.0693
35	0.0688	0.0688
36	0.0679	0.0679
37	0.0673	0.0673
38	0.0659	0.0659
39	0.0653	0.0653
40	0.0638	0.0638
41	0.0636	0.0636
42	0.0624	0.0624
43	0.0615	0.0615
44	0.0609	0.0609
45	0.0591	0.0591
46	0.0580	0.0580
47	0.0556	0.0556
48	0.0553	0.0553
49	0.0523	0.0523
50	0.0516	0.0516
51	0.0500	0.0500
52	0.0495	0.0495
53	0.0465	0.0465
54	0.0443	0.0443

Stream Protection Duration

POC #15

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0362	1214	1214	100	Pass
0.0369	1129	1129	100	Pass
0.0376	1060	1060	100	Pass
0.0383	986	986	100	Pass
0.0390	925	925	100	Pass
0.0397	862	862	100	Pass
0.0404	793	793	100	Pass
0.0411	734	734	100	Pass
0.0418	681	681	100	Pass
0.0425	630	630	100	Pass
0.0432	578	578	100	Pass
0.0439	539	539	100	Pass
0.0446	499	499	100	Pass
0.0453	467	467	100	Pass
0.0460	424	424	100	Pass
0.0467	394	394	100	Pass
0.0474	367	367	100	Pass
0.0481	345	345	100	Pass
0.0488	326	326	100	Pass
0.0495	305	305	100	Pass
0.0502	288	288	100	Pass

0.0509	272	272	100	Pass
0.0516	255	255	100	Pass
0.0523	236	236	100	Pass
0.0530	226	226	100	Pass
0.0537	217	217	100	Pass
0.0544	210	210	100	Pass
0.0551	196	196	100	Pass
0.0558	189	189	100	Pass
0.0565	178	178	100	Pass
0.0572	169	169	100	Pass
0.0579	161	161	100	Pass
0.0586	154	154	100	Pass
0.0593	141	141	100	Pass
0.0600	131	131	100	Pass
0.0607	123	123	100	Pass
0.0614	115	115	100	Pass
0.0621	110	110	100	Pass
0.0628	106	106	100	Pass
0.0635	102	102	100	Pass
0.0642	96	96	100	Pass
0.0649	94	94	100	Pass
0.0656	86	86	100	Pass
0.0663	80	80	100	Pass
0.0670	76	76	100	Pass
0.0677	71	71	100	Pass
0.0684	68	68	100	Pass
0.0691	63	63	100	Pass
0.0698	60	60	100	Pass
0.0705	56	56	100	Pass
0.0712	55	55	100	Pass
0.0719	50	50	100	Pass
0.0726	48	48	100	Pass
0.0733	47	47	100	Pass
0.0740	45	45	100	Pass
0.0747	39	39	100	Pass
0.0754	35	35	100	Pass
0.0761	34	34	100	Pass
0.0768	34	34	100	Pass
0.0775	33	33	100	Pass
0.0782	32	32	100	Pass
0.0789	29	29	100	Pass
0.0796	27	27	100	Pass
0.0803	26	26	100	Pass
0.0810	24	24	100	Pass
0.0817	24	24	100	Pass
0.0824	24	24	100	Pass
0.0831	23	23	100	Pass
0.0838	17	17	100	Pass
0.0845	17	17	100	Pass
0.0852	15	15	100	Pass
0.0859	14	14	100	Pass
0.0866	13	13	100	Pass
0.0873	12	12	100	Pass
0.0880	12	12	100	Pass
0.0886	12	12	100	Pass
0.0893	11	11	100	Pass
0.0900	9	9	100	Pass

0.0907	7	7	100	Pass
0.0914	7	7	100	Pass
0.0921	6	6	100	Pass
0.0928	6	6	100	Pass
0.0935	6	6	100	Pass
0.0942	5	5	100	Pass
0.0949	3	3	100	Pass
0.0956	3	3	100	Pass
0.0963	3	3	100	Pass
0.0970	3	3	100	Pass
0.0977	2	2	100	Pass
0.0984	2	2	100	Pass
0.0991	2	2	100	Pass
0.0998	2	2	100	Pass
0.1005	1	1	100	Pass
0.1012	1	1	100	Pass
0.1019	1	1	100	Pass
0.1026	1	1	100	Pass
0.1033	1	1	100	Pass
0.1040	1	1	100	Pass
0.1047	1	1	100	Pass
0.1054	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #15
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 15
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	4.3643	4.3643	100.0	Pass
Feb	3.3321	3.3321	100.0	Pass
Mar	2.9740	2.9740	100.0	Pass
Apr	1.6920	1.6920	100.0	Pass
May	0.9541	0.9541	100.0	Pass
Jun	0.6474	0.6474	100.0	Pass
Jul	0.3269	0.3269	100.0	Pass
Aug	0.4917	0.4917	100.0	Pass
Sep	1.0810	1.0810	100.0	Pass
Oct	2.5545	2.5545	100.0	Pass
Nov	4.1942	4.1942	100.0	Pass
Dec	4.2063	4.2063	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.1406	0.1406	100.0	Pass
2	0.1079	0.1079	100.0	Pass
3	0.1420	0.1420	100.0	Pass
4	0.1697	0.1697	100.0	Pass
5	0.1170	0.1170	100.0	Pass
6	0.1861	0.1861	100.0	Pass

7	0.1371	0.1371	100.0	Pass
8	0.1394	0.1394	100.0	Pass
9	0.1516	0.1516	100.0	Pass
10	0.1446	0.1446	100.0	Pass
11	0.1800	0.1800	100.0	Pass
12	0.1363	0.1363	100.0	Pass
13	0.1780	0.1780	100.0	Pass
14	0.1754	0.1754	100.0	Pass
15	0.1581	0.1581	100.0	Pass
16	0.1256	0.1256	100.0	Pass
17	0.1218	0.1218	100.0	Pass
18	0.1075	0.1075	100.0	Pass
19	0.1097	0.1097	100.0	Pass
20	0.0682	0.0682	100.0	Pass
21	0.1483	0.1483	100.0	Pass
22	0.1738	0.1738	100.0	Pass
23	0.1919	0.1919	100.0	Pass
24	0.1238	0.1238	100.0	Pass
25	0.1049	0.1049	100.0	Pass
26	0.0949	0.0949	100.0	Pass
27	0.1268	0.1268	100.0	Pass
28	0.1626	0.1626	100.0	Pass
29	0.1190	0.1190	100.0	Pass
30	0.1456	0.1456	100.0	Pass
31	0.0810	0.0810	100.0	Pass
Feb1	0.0970	0.0970	100.0	Pass
2	0.0898	0.0898	100.0	Pass
3	0.0801	0.0801	100.0	Pass
4	0.0742	0.0742	100.0	Pass
5	0.1452	0.1452	100.0	Pass
6	0.0652	0.0652	100.0	Pass
7	0.1042	0.1042	100.0	Pass
8	0.0763	0.0763	100.0	Pass
9	0.0960	0.0960	100.0	Pass
10	0.1295	0.1295	100.0	Pass
11	0.1685	0.1685	100.0	Pass
12	0.1262	0.1262	100.0	Pass
13	0.1388	0.1388	100.0	Pass
14	0.2000	0.2000	100.0	Pass
15	0.1361	0.1361	100.0	Pass
16	0.1870	0.1870	100.0	Pass
17	0.1602	0.1602	100.0	Pass
18	0.1211	0.1211	100.0	Pass
19	0.1063	0.1063	100.0	Pass
20	0.1040	0.1040	100.0	Pass
21	0.0853	0.0853	100.0	Pass
22	0.1307	0.1307	100.0	Pass
23	0.1226	0.1226	100.0	Pass
24	0.1353	0.1353	100.0	Pass
25	0.1188	0.1188	100.0	Pass
26	0.1159	0.1159	100.0	Pass
27	0.1013	0.1013	100.0	Pass
28	0.1394	0.1394	100.0	Pass
29	0.0987	0.0987	100.0	Pass
Mar1	0.0983	0.0983	100.0	Pass
2	0.0788	0.0788	100.0	Pass
3	0.1167	0.1167	100.0	Pass

4	0.1212	0.1212	100.0	Pass
5	0.0928	0.0928	100.0	Pass
6	0.1191	0.1191	100.0	Pass
7	0.1190	0.1190	100.0	Pass
8	0.1130	0.1130	100.0	Pass
9	0.1134	0.1134	100.0	Pass
10	0.0967	0.0967	100.0	Pass
11	0.1068	0.1068	100.0	Pass
12	0.0943	0.0943	100.0	Pass
13	0.1163	0.1163	100.0	Pass
14	0.0894	0.0894	100.0	Pass
15	0.0723	0.0723	100.0	Pass
16	0.0712	0.0712	100.0	Pass
17	0.0984	0.0984	100.0	Pass
18	0.0571	0.0571	100.0	Pass
19	0.0920	0.0920	100.0	Pass
20	0.0719	0.0719	100.0	Pass
21	0.1270	0.1270	100.0	Pass
22	0.1411	0.1411	100.0	Pass
23	0.1108	0.1108	100.0	Pass
24	0.0666	0.0666	100.0	Pass
25	0.1135	0.1135	100.0	Pass
26	0.0778	0.0778	100.0	Pass
27	0.0774	0.0774	100.0	Pass
28	0.0862	0.0862	100.0	Pass
29	0.0796	0.0796	100.0	Pass
30	0.0574	0.0574	100.0	Pass
31	0.0465	0.0465	100.0	Pass
Apr1	0.0514	0.0514	100.0	Pass
2	0.0590	0.0590	100.0	Pass
3	0.0846	0.0846	100.0	Pass
4	0.0735	0.0735	100.0	Pass
5	0.0775	0.0775	100.0	Pass
6	0.0389	0.0389	100.0	Pass
7	0.0723	0.0723	100.0	Pass
8	0.0706	0.0706	100.0	Pass
9	0.0635	0.0635	100.0	Pass
10	0.0610	0.0610	100.0	Pass
11	0.0892	0.0892	100.0	Pass
12	0.0729	0.0729	100.0	Pass
13	0.0775	0.0775	100.0	Pass
14	0.0642	0.0642	100.0	Pass
15	0.0687	0.0687	100.0	Pass
16	0.0356	0.0356	100.0	Pass
17	0.0541	0.0541	100.0	Pass
18	0.0629	0.0629	100.0	Pass
19	0.0303	0.0303	100.0	Pass
20	0.0317	0.0317	100.0	Pass
21	0.0572	0.0572	100.0	Pass
22	0.0468	0.0468	100.0	Pass
23	0.0396	0.0396	100.0	Pass
24	0.0315	0.0315	100.0	Pass
25	0.0400	0.0400	100.0	Pass
26	0.0667	0.0667	100.0	Pass
27	0.0501	0.0501	100.0	Pass
28	0.0519	0.0519	100.0	Pass
29	0.0228	0.0228	100.0	Pass

30	0.0349	0.0349	100.0	Pass
May1	0.0564	0.0564	100.0	Pass
2	0.0380	0.0380	100.0	Pass
3	0.0429	0.0429	100.0	Pass
4	0.0320	0.0320	100.0	Pass
5	0.0315	0.0315	100.0	Pass
6	0.0269	0.0269	100.0	Pass
7	0.0366	0.0366	100.0	Pass
8	0.0211	0.0211	100.0	Pass
9	0.0318	0.0318	100.0	Pass
10	0.0254	0.0254	100.0	Pass
11	0.0242	0.0242	100.0	Pass
12	0.0345	0.0345	100.0	Pass
13	0.0370	0.0370	100.0	Pass
14	0.0360	0.0360	100.0	Pass
15	0.0223	0.0223	100.0	Pass
16	0.0316	0.0316	100.0	Pass
17	0.0248	0.0248	100.0	Pass
18	0.0430	0.0430	100.0	Pass
19	0.0209	0.0209	100.0	Pass
20	0.0215	0.0215	100.0	Pass
21	0.0222	0.0222	100.0	Pass
22	0.0275	0.0275	100.0	Pass
23	0.0235	0.0235	100.0	Pass
24	0.0247	0.0247	100.0	Pass
25	0.0202	0.0202	100.0	Pass
26	0.0370	0.0370	100.0	Pass
27	0.0279	0.0279	100.0	Pass
28	0.0305	0.0305	100.0	Pass
29	0.0415	0.0415	100.0	Pass
30	0.0257	0.0257	100.0	Pass
31	0.0283	0.0283	100.0	Pass
Jun1	0.0206	0.0206	100.0	Pass
2	0.0375	0.0375	100.0	Pass
3	0.0348	0.0348	100.0	Pass
4	0.0248	0.0248	100.0	Pass
5	0.0424	0.0424	100.0	Pass
6	0.0138	0.0138	100.0	Pass
7	0.0233	0.0233	100.0	Pass
8	0.0345	0.0345	100.0	Pass
9	0.0254	0.0254	100.0	Pass
10	0.0248	0.0248	100.0	Pass
11	0.0174	0.0174	100.0	Pass
12	0.0225	0.0225	100.0	Pass
13	0.0356	0.0356	100.0	Pass
14	0.0131	0.0131	100.0	Pass
15	0.0288	0.0288	100.0	Pass
16	0.0112	0.0112	100.0	Pass
17	0.0172	0.0172	100.0	Pass
18	0.0109	0.0109	100.0	Pass
19	0.0146	0.0146	100.0	Pass
20	0.0165	0.0165	100.0	Pass
21	0.0153	0.0153	100.0	Pass
22	0.0082	0.0082	100.0	Pass
23	0.0465	0.0465	100.0	Pass
24	0.0098	0.0098	100.0	Pass
25	0.0198	0.0198	100.0	Pass

26	0.0118	0.0118	100.0	Pass
27	0.0112	0.0112	100.0	Pass
28	0.0116	0.0116	100.0	Pass
29	0.0152	0.0152	100.0	Pass
30	0.0319	0.0319	100.0	Pass
Jul1	0.0072	0.0072	100.0	Pass
2	0.0067	0.0067	100.0	Pass
3	0.0078	0.0078	100.0	Pass
4	0.0197	0.0197	100.0	Pass
5	0.0142	0.0142	100.0	Pass
6	0.0108	0.0108	100.0	Pass
7	0.0202	0.0202	100.0	Pass
8	0.0107	0.0107	100.0	Pass
9	0.0240	0.0240	100.0	Pass
10	0.0149	0.0149	100.0	Pass
11	0.0300	0.0300	100.0	Pass
12	0.0127	0.0127	100.0	Pass
13	0.0104	0.0104	100.0	Pass
14	0.0174	0.0174	100.0	Pass
15	0.0068	0.0068	100.0	Pass
16	0.0043	0.0043	100.0	Pass
17	0.0154	0.0154	100.0	Pass
18	0.0045	0.0045	100.0	Pass
19	0.0066	0.0066	100.0	Pass
20	0.0116	0.0116	100.0	Pass
21	0.0087	0.0087	100.0	Pass
22	0.0003	0.0003	100.0	Pass
23	0.0025	0.0025	100.0	Pass
24	0.0030	0.0030	100.0	Pass
25	0.0071	0.0071	100.0	Pass
26	0.0031	0.0031	100.0	Pass
27	0.0044	0.0044	100.0	Pass
28	0.0037	0.0037	100.0	Pass
29	0.0023	0.0023	100.0	Pass
30	0.0042	0.0042	100.0	Pass
31	0.0046	0.0046	100.0	Pass
Aug1	0.0189	0.0189	100.0	Pass
2	0.0062	0.0062	100.0	Pass
3	0.0023	0.0023	100.0	Pass
4	0.0024	0.0024	100.0	Pass
5	0.0212	0.0212	100.0	Pass
6	0.0141	0.0141	100.0	Pass
7	0.0048	0.0048	100.0	Pass
8	0.0052	0.0052	100.0	Pass
9	0.0004	0.0004	100.0	Pass
10	0.0029	0.0029	100.0	Pass
11	0.0138	0.0138	100.0	Pass
12	0.0120	0.0120	100.0	Pass
13	0.0147	0.0147	100.0	Pass
14	0.0085	0.0085	100.0	Pass
15	0.0075	0.0075	100.0	Pass
16	0.0070	0.0070	100.0	Pass
17	0.0140	0.0140	100.0	Pass
18	0.0263	0.0263	100.0	Pass
19	0.0066	0.0066	100.0	Pass
20	0.0204	0.0204	100.0	Pass
21	0.0180	0.0180	100.0	Pass

22	0.0357	0.0357	100.0	Pass
23	0.0321	0.0321	100.0	Pass
24	0.0259	0.0259	100.0	Pass
25	0.0098	0.0098	100.0	Pass
26	0.0339	0.0339	100.0	Pass
27	0.0338	0.0338	100.0	Pass
28	0.0329	0.0329	100.0	Pass
29	0.0209	0.0209	100.0	Pass
30	0.0351	0.0351	100.0	Pass
31	0.0546	0.0546	100.0	Pass
Sep1	0.0184	0.0184	100.0	Pass
2	0.0200	0.0200	100.0	Pass
3	0.0228	0.0228	100.0	Pass
4	0.0295	0.0295	100.0	Pass
5	0.0247	0.0247	100.0	Pass
6	0.0170	0.0170	100.0	Pass
7	0.0346	0.0346	100.0	Pass
8	0.0211	0.0211	100.0	Pass
9	0.0566	0.0566	100.0	Pass
10	0.0116	0.0116	100.0	Pass
11	0.0107	0.0107	100.0	Pass
12	0.0303	0.0303	100.0	Pass
13	0.0550	0.0550	100.0	Pass
14	0.0334	0.0334	100.0	Pass
15	0.0525	0.0525	100.0	Pass
16	0.0533	0.0533	100.0	Pass
17	0.0593	0.0593	100.0	Pass
18	0.0528	0.0528	100.0	Pass
19	0.0557	0.0557	100.0	Pass
20	0.0385	0.0385	100.0	Pass
21	0.0549	0.0549	100.0	Pass
22	0.0434	0.0434	100.0	Pass
23	0.0349	0.0349	100.0	Pass
24	0.0248	0.0248	100.0	Pass
25	0.0277	0.0277	100.0	Pass
26	0.0278	0.0278	100.0	Pass
27	0.0376	0.0376	100.0	Pass
28	0.0333	0.0333	100.0	Pass
29	0.0445	0.0445	100.0	Pass
30	0.0305	0.0305	100.0	Pass
Oct1	0.0214	0.0214	100.0	Pass
2	0.0584	0.0584	100.0	Pass
3	0.0509	0.0509	100.0	Pass
4	0.0617	0.0617	100.0	Pass
5	0.0653	0.0653	100.0	Pass
6	0.0720	0.0720	100.0	Pass
7	0.0917	0.0917	100.0	Pass
8	0.0723	0.0723	100.0	Pass
9	0.0551	0.0551	100.0	Pass
10	0.0450	0.0450	100.0	Pass
11	0.0910	0.0910	100.0	Pass
12	0.0581	0.0581	100.0	Pass
13	0.0844	0.0844	100.0	Pass
14	0.0440	0.0440	100.0	Pass
15	0.0551	0.0551	100.0	Pass
16	0.0742	0.0742	100.0	Pass
17	0.0674	0.0674	100.0	Pass

18	0.1097	0.1097	100.0	Pass
19	0.1335	0.1335	100.0	Pass
20	0.1139	0.1139	100.0	Pass
21	0.1380	0.1380	100.0	Pass
22	0.0749	0.0749	100.0	Pass
23	0.1341	0.1341	100.0	Pass
24	0.1154	0.1154	100.0	Pass
25	0.1019	0.1019	100.0	Pass
26	0.1264	0.1264	100.0	Pass
27	0.1040	0.1040	100.0	Pass
28	0.0973	0.0973	100.0	Pass
29	0.0809	0.0809	100.0	Pass
30	0.1267	0.1267	100.0	Pass
31	0.1024	0.1024	100.0	Pass
Nov1	0.1315	0.1315	100.0	Pass
2	0.1629	0.1629	100.0	Pass
3	0.1189	0.1189	100.0	Pass
4	0.1239	0.1239	100.0	Pass
5	0.1374	0.1374	100.0	Pass
6	0.1112	0.1112	100.0	Pass
7	0.1010	0.1010	100.0	Pass
8	0.1367	0.1367	100.0	Pass
9	0.1608	0.1608	100.0	Pass
10	0.1341	0.1341	100.0	Pass
11	0.1517	0.1517	100.0	Pass
12	0.1400	0.1400	100.0	Pass
13	0.0990	0.0990	100.0	Pass
14	0.1228	0.1228	100.0	Pass
15	0.1383	0.1383	100.0	Pass
16	0.1452	0.1452	100.0	Pass
17	0.1300	0.1300	100.0	Pass
18	0.1971	0.1971	100.0	Pass
19	0.1707	0.1707	100.0	Pass
20	0.1064	0.1064	100.0	Pass
21	0.1811	0.1811	100.0	Pass
22	0.2180	0.2180	100.0	Pass
23	0.1560	0.1560	100.0	Pass
24	0.1832	0.1832	100.0	Pass
25	0.1126	0.1126	100.0	Pass
26	0.0914	0.0914	100.0	Pass
27	0.1198	0.1198	100.0	Pass
28	0.1142	0.1142	100.0	Pass
29	0.1966	0.1966	100.0	Pass
30	0.1488	0.1488	100.0	Pass
Dec1	0.1676	0.1676	100.0	Pass
2	0.1591	0.1591	100.0	Pass
3	0.0965	0.0965	100.0	Pass
4	0.1132	0.1132	100.0	Pass
5	0.0945	0.0945	100.0	Pass
6	0.0837	0.0837	100.0	Pass
7	0.1270	0.1270	100.0	Pass
8	0.1600	0.1600	100.0	Pass
9	0.1544	0.1544	100.0	Pass
10	0.1657	0.1657	100.0	Pass
11	0.1169	0.1169	100.0	Pass
12	0.1302	0.1302	100.0	Pass
13	0.2019	0.2019	100.0	Pass

14	0.1289	0.1289	100.0	Pass
15	0.1796	0.1796	100.0	Pass
16	0.1119	0.1119	100.0	Pass
17	0.1417	0.1417	100.0	Pass
18	0.1138	0.1138	100.0	Pass
19	0.1394	0.1394	100.0	Pass
20	0.1331	0.1331	100.0	Pass
21	0.1466	0.1466	100.0	Pass
22	0.1451	0.1451	100.0	Pass
23	0.1591	0.1591	100.0	Pass
24	0.1784	0.1784	100.0	Pass
25	0.1480	0.1480	100.0	Pass
26	0.1341	0.1341	100.0	Pass
27	0.0868	0.0868	100.0	Pass
28	0.1501	0.1501	100.0	Pass
29	0.0913	0.0913	100.0	Pass
30	0.0998	0.0998	100.0	Pass
31	0.1769	0.1769	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #16

Total Pervious Area:0
Total Impervious Area:0.184

Mitigated Landuse Totals for POC #16

Total Pervious Area:0
Total Impervious Area:0.184

Flow Frequency Return Periods for Predeveloped. POC #16

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.134677
5 year	0.15862
10 year	0.171823
25 year	0.186345
50 year	0.195938
100 year	0.204686

Flow Frequency Return Periods for Mitigated. POC #16

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.134677
5 year	0.15862
10 year	0.171823
25 year	0.186345
50 year	0.195938
100 year	0.204686

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #16

Year	Predeveloped	Mitigated
1956	0.138	0.138
1957	0.176	0.176
1958	0.138	0.138
1959	0.133	0.133
1960	0.137	0.137
1961	0.119	0.119
1962	0.181	0.181
1963	0.167	0.167
1964	0.148	0.148
1965	0.146	0.146
1966	0.141	0.141
1967	0.093	0.093
1968	0.137	0.137
1969	0.129	0.129
1970	0.128	0.128
1971	0.186	0.186
1972	0.156	0.156
1973	0.150	0.150
1974	0.140	0.140
1975	0.126	0.126
1976	0.153	0.153
1977	0.113	0.113
1978	0.196	0.196
1979	0.122	0.122
1980	0.114	0.114
1981	0.146	0.146
1982	0.168	0.168
1983	0.133	0.133
1984	0.121	0.121
1985	0.097	0.097
1986	0.147	0.147
1987	0.103	0.103
1988	0.155	0.155
1989	0.133	0.133
1990	0.168	0.168
1991	0.118	0.118
1992	0.092	0.092
1993	0.103	0.103
1994	0.125	0.125
1995	0.129	0.129
1996	0.155	0.155
1997	0.147	0.147
1998	0.096	0.096
1999	0.116	0.116
2000	0.110	0.110
2001	0.108	0.108
2002	0.171	0.171
2003	0.176	0.176
2004	0.165	0.165
2005	0.132	0.132
2006	0.134	0.134
2007	0.157	0.157
2008	0.086	0.086
2009	0.082	0.082

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #16

Rank	Predeveloped	Mitigated
1	0.1964	0.1964
2	0.1858	0.1858
3	0.1810	0.1810
4	0.1762	0.1762
5	0.1759	0.1759
6	0.1710	0.1710
7	0.1685	0.1685
8	0.1678	0.1678
9	0.1673	0.1673
10	0.1655	0.1655
11	0.1570	0.1570
12	0.1556	0.1556
13	0.1555	0.1555
14	0.1552	0.1552
15	0.1532	0.1532
16	0.1501	0.1501
17	0.1482	0.1482
18	0.1471	0.1471
19	0.1466	0.1466
20	0.1463	0.1463
21	0.1456	0.1456
22	0.1407	0.1407
23	0.1399	0.1399
24	0.1383	0.1383
25	0.1381	0.1381
26	0.1373	0.1373
27	0.1372	0.1372
28	0.1344	0.1344
29	0.1328	0.1328
30	0.1327	0.1327
31	0.1325	0.1325
32	0.1323	0.1323
33	0.1290	0.1290
34	0.1289	0.1289
35	0.1278	0.1278
36	0.1261	0.1261
37	0.1250	0.1250
38	0.1225	0.1225
39	0.1215	0.1215
40	0.1187	0.1187
41	0.1182	0.1182
42	0.1159	0.1159
43	0.1143	0.1143
44	0.1132	0.1132
45	0.1099	0.1099
46	0.1078	0.1078
47	0.1033	0.1033
48	0.1027	0.1027
49	0.0972	0.0972
50	0.0960	0.0960
51	0.0929	0.0929
52	0.0920	0.0920
53	0.0864	0.0864
54	0.0823	0.0823

Stream Protection Duration

POC #16

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0673	1214	1214	100	Pass
0.0686	1129	1129	100	Pass
0.0699	1060	1060	100	Pass
0.0712	985	985	100	Pass
0.0725	925	925	100	Pass
0.0738	862	862	100	Pass
0.0751	793	793	100	Pass
0.0764	734	734	100	Pass
0.0777	681	681	100	Pass
0.0790	631	631	100	Pass
0.0803	578	578	100	Pass
0.0816	538	538	100	Pass
0.0829	499	499	100	Pass
0.0842	467	467	100	Pass
0.0855	424	424	100	Pass
0.0868	394	394	100	Pass
0.0881	367	367	100	Pass
0.0894	345	345	100	Pass
0.0907	324	324	100	Pass
0.0920	305	305	100	Pass
0.0933	288	288	100	Pass
0.0946	272	272	100	Pass
0.0959	255	255	100	Pass
0.0972	236	236	100	Pass
0.0985	226	226	100	Pass
0.0998	217	217	100	Pass
0.1011	210	210	100	Pass
0.1024	196	196	100	Pass
0.1037	189	189	100	Pass
0.1050	178	178	100	Pass
0.1063	169	169	100	Pass
0.1076	161	161	100	Pass
0.1089	154	154	100	Pass
0.1102	141	141	100	Pass
0.1115	131	131	100	Pass
0.1128	123	123	100	Pass
0.1141	115	115	100	Pass
0.1154	110	110	100	Pass
0.1167	106	106	100	Pass
0.1180	102	102	100	Pass
0.1193	97	97	100	Pass
0.1206	95	95	100	Pass
0.1219	86	86	100	Pass
0.1232	80	80	100	Pass
0.1245	76	76	100	Pass
0.1258	72	72	100	Pass
0.1271	68	68	100	Pass
0.1284	63	63	100	Pass

0.1297	60	60	100	Pass
0.1310	56	56	100	Pass
0.1323	56	56	100	Pass
0.1336	50	50	100	Pass
0.1349	48	48	100	Pass
0.1362	47	47	100	Pass
0.1375	45	45	100	Pass
0.1388	39	39	100	Pass
0.1401	35	35	100	Pass
0.1414	34	34	100	Pass
0.1427	34	34	100	Pass
0.1440	33	33	100	Pass
0.1453	32	32	100	Pass
0.1466	30	30	100	Pass
0.1479	27	27	100	Pass
0.1492	26	26	100	Pass
0.1505	24	24	100	Pass
0.1518	24	24	100	Pass
0.1531	24	24	100	Pass
0.1544	23	23	100	Pass
0.1557	18	18	100	Pass
0.1570	17	17	100	Pass
0.1583	15	15	100	Pass
0.1596	14	14	100	Pass
0.1609	13	13	100	Pass
0.1622	12	12	100	Pass
0.1635	12	12	100	Pass
0.1648	12	12	100	Pass
0.1661	11	11	100	Pass
0.1674	9	9	100	Pass
0.1687	7	7	100	Pass
0.1700	7	7	100	Pass
0.1713	6	6	100	Pass
0.1726	6	6	100	Pass
0.1739	6	6	100	Pass
0.1752	5	5	100	Pass
0.1765	3	3	100	Pass
0.1778	3	3	100	Pass
0.1791	3	3	100	Pass
0.1804	3	3	100	Pass
0.1816	2	2	100	Pass
0.1829	2	2	100	Pass
0.1842	2	2	100	Pass
0.1855	2	2	100	Pass
0.1868	1	1	100	Pass
0.1881	1	1	100	Pass
0.1894	1	1	100	Pass
0.1907	1	1	100	Pass
0.1920	1	1	100	Pass
0.1933	1	1	100	Pass
0.1946	1	1	100	Pass
0.1959	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #16
On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 16

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	8.1114	8.1114	100.0	Pass
Feb	6.1930	6.1930	100.0	Pass
Mar	5.5274	5.5274	100.0	Pass
Apr	3.1448	3.1448	100.0	Pass
May	1.7732	1.7732	100.0	Pass
Jun	1.2032	1.2032	100.0	Pass
Jul	0.6075	0.6075	100.0	Pass
Aug	0.9138	0.9138	100.0	Pass
Sep	2.0091	2.0091	100.0	Pass
Oct	4.7479	4.7479	100.0	Pass
Nov	7.7953	7.7953	100.0	Pass
Dec	7.8177	7.8177	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.2612	0.2612	100.0	Pass
2	0.2005	0.2005	100.0	Pass
3	0.2638	0.2638	100.0	Pass
4	0.3154	0.3154	100.0	Pass
5	0.2175	0.2175	100.0	Pass
6	0.3459	0.3459	100.0	Pass
7	0.2547	0.2547	100.0	Pass
8	0.2592	0.2592	100.0	Pass
9	0.2817	0.2817	100.0	Pass
10	0.2687	0.2687	100.0	Pass
11	0.3345	0.3345	100.0	Pass
12	0.2534	0.2534	100.0	Pass
13	0.3308	0.3308	100.0	Pass
14	0.3260	0.3260	100.0	Pass
15	0.2938	0.2938	100.0	Pass
16	0.2334	0.2334	100.0	Pass
17	0.2264	0.2264	100.0	Pass
18	0.1998	0.1998	100.0	Pass
19	0.2038	0.2038	100.0	Pass
20	0.1268	0.1268	100.0	Pass
21	0.2756	0.2756	100.0	Pass
22	0.3231	0.3231	100.0	Pass
23	0.3567	0.3567	100.0	Pass
24	0.2300	0.2300	100.0	Pass
25	0.1950	0.1950	100.0	Pass
26	0.1763	0.1763	100.0	Pass
27	0.2357	0.2357	100.0	Pass
28	0.3022	0.3022	100.0	Pass
29	0.2212	0.2212	100.0	Pass
30	0.2706	0.2706	100.0	Pass
31	0.1505	0.1505	100.0	Pass
Feb1	0.1803	0.1803	100.0	Pass
2	0.1669	0.1669	100.0	Pass
3	0.1488	0.1488	100.0	Pass

4	0.1378	0.1378	100.0	Pass
5	0.2698	0.2698	100.0	Pass
6	0.1212	0.1212	100.0	Pass
7	0.1937	0.1937	100.0	Pass
8	0.1418	0.1418	100.0	Pass
9	0.1785	0.1785	100.0	Pass
10	0.2407	0.2407	100.0	Pass
11	0.3132	0.3132	100.0	Pass
12	0.2346	0.2346	100.0	Pass
13	0.2580	0.2580	100.0	Pass
14	0.3718	0.3718	100.0	Pass
15	0.2530	0.2530	100.0	Pass
16	0.3475	0.3475	100.0	Pass
17	0.2977	0.2977	100.0	Pass
18	0.2250	0.2250	100.0	Pass
19	0.1976	0.1976	100.0	Pass
20	0.1933	0.1933	100.0	Pass
21	0.1585	0.1585	100.0	Pass
22	0.2429	0.2429	100.0	Pass
23	0.2278	0.2278	100.0	Pass
24	0.2516	0.2516	100.0	Pass
25	0.2208	0.2208	100.0	Pass
26	0.2154	0.2154	100.0	Pass
27	0.1882	0.1882	100.0	Pass
28	0.2591	0.2591	100.0	Pass
29	0.1834	0.1834	100.0	Pass
Mar1	0.1827	0.1827	100.0	Pass
2	0.1465	0.1465	100.0	Pass
3	0.2168	0.2168	100.0	Pass
4	0.2252	0.2252	100.0	Pass
5	0.1724	0.1724	100.0	Pass
6	0.2214	0.2214	100.0	Pass
7	0.2211	0.2211	100.0	Pass
8	0.2100	0.2100	100.0	Pass
9	0.2107	0.2107	100.0	Pass
10	0.1798	0.1798	100.0	Pass
11	0.1985	0.1985	100.0	Pass
12	0.1753	0.1753	100.0	Pass
13	0.2162	0.2162	100.0	Pass
14	0.1662	0.1662	100.0	Pass
15	0.1343	0.1343	100.0	Pass
16	0.1323	0.1323	100.0	Pass
17	0.1829	0.1829	100.0	Pass
18	0.1062	0.1062	100.0	Pass
19	0.1709	0.1709	100.0	Pass
20	0.1337	0.1337	100.0	Pass
21	0.2360	0.2360	100.0	Pass
22	0.2623	0.2623	100.0	Pass
23	0.2059	0.2059	100.0	Pass
24	0.1238	0.1238	100.0	Pass
25	0.2110	0.2110	100.0	Pass
26	0.1446	0.1446	100.0	Pass
27	0.1438	0.1438	100.0	Pass
28	0.1601	0.1601	100.0	Pass
29	0.1479	0.1479	100.0	Pass
30	0.1066	0.1066	100.0	Pass
31	0.0864	0.0864	100.0	Pass

Apr1	0.0955	0.0955	100.0	Pass
2	0.1096	0.1096	100.0	Pass
3	0.1572	0.1572	100.0	Pass
4	0.1366	0.1366	100.0	Pass
5	0.1440	0.1440	100.0	Pass
6	0.0723	0.0723	100.0	Pass
7	0.1344	0.1344	100.0	Pass
8	0.1312	0.1312	100.0	Pass
9	0.1181	0.1181	100.0	Pass
10	0.1133	0.1133	100.0	Pass
11	0.1657	0.1657	100.0	Pass
12	0.1355	0.1355	100.0	Pass
13	0.1440	0.1440	100.0	Pass
14	0.1193	0.1193	100.0	Pass
15	0.1277	0.1277	100.0	Pass
16	0.0661	0.0661	100.0	Pass
17	0.1005	0.1005	100.0	Pass
18	0.1169	0.1169	100.0	Pass
19	0.0564	0.0564	100.0	Pass
20	0.0589	0.0589	100.0	Pass
21	0.1062	0.1062	100.0	Pass
22	0.0870	0.0870	100.0	Pass
23	0.0736	0.0736	100.0	Pass
24	0.0585	0.0585	100.0	Pass
25	0.0743	0.0743	100.0	Pass
26	0.1240	0.1240	100.0	Pass
27	0.0931	0.0931	100.0	Pass
28	0.0965	0.0965	100.0	Pass
29	0.0424	0.0424	100.0	Pass
30	0.0648	0.0648	100.0	Pass
May1	0.1048	0.1048	100.0	Pass
2	0.0706	0.0706	100.0	Pass
3	0.0797	0.0797	100.0	Pass
4	0.0594	0.0594	100.0	Pass
5	0.0586	0.0586	100.0	Pass
6	0.0500	0.0500	100.0	Pass
7	0.0681	0.0681	100.0	Pass
8	0.0393	0.0393	100.0	Pass
9	0.0591	0.0591	100.0	Pass
10	0.0473	0.0473	100.0	Pass
11	0.0449	0.0449	100.0	Pass
12	0.0641	0.0641	100.0	Pass
13	0.0687	0.0687	100.0	Pass
14	0.0669	0.0669	100.0	Pass
15	0.0415	0.0415	100.0	Pass
16	0.0588	0.0588	100.0	Pass
17	0.0460	0.0460	100.0	Pass
18	0.0799	0.0799	100.0	Pass
19	0.0388	0.0388	100.0	Pass
20	0.0399	0.0399	100.0	Pass
21	0.0413	0.0413	100.0	Pass
22	0.0512	0.0512	100.0	Pass
23	0.0436	0.0436	100.0	Pass
24	0.0460	0.0460	100.0	Pass
25	0.0376	0.0376	100.0	Pass
26	0.0688	0.0688	100.0	Pass
27	0.0518	0.0518	100.0	Pass

28	0.0568	0.0568	100.0	Pass
29	0.0772	0.0772	100.0	Pass
30	0.0478	0.0478	100.0	Pass
31	0.0527	0.0527	100.0	Pass
Jun1	0.0382	0.0382	100.0	Pass
2	0.0697	0.0697	100.0	Pass
3	0.0646	0.0646	100.0	Pass
4	0.0461	0.0461	100.0	Pass
5	0.0788	0.0788	100.0	Pass
6	0.0256	0.0256	100.0	Pass
7	0.0433	0.0433	100.0	Pass
8	0.0641	0.0641	100.0	Pass
9	0.0471	0.0471	100.0	Pass
10	0.0460	0.0460	100.0	Pass
11	0.0323	0.0323	100.0	Pass
12	0.0417	0.0417	100.0	Pass
13	0.0662	0.0662	100.0	Pass
14	0.0244	0.0244	100.0	Pass
15	0.0535	0.0535	100.0	Pass
16	0.0208	0.0208	100.0	Pass
17	0.0320	0.0320	100.0	Pass
18	0.0203	0.0203	100.0	Pass
19	0.0271	0.0271	100.0	Pass
20	0.0308	0.0308	100.0	Pass
21	0.0284	0.0284	100.0	Pass
22	0.0153	0.0153	100.0	Pass
23	0.0865	0.0865	100.0	Pass
24	0.0182	0.0182	100.0	Pass
25	0.0368	0.0368	100.0	Pass
26	0.0220	0.0220	100.0	Pass
27	0.0208	0.0208	100.0	Pass
28	0.0216	0.0216	100.0	Pass
29	0.0283	0.0283	100.0	Pass
30	0.0594	0.0594	100.0	Pass
Jul1	0.0133	0.0133	100.0	Pass
2	0.0125	0.0125	100.0	Pass
3	0.0145	0.0145	100.0	Pass
4	0.0366	0.0366	100.0	Pass
5	0.0263	0.0263	100.0	Pass
6	0.0200	0.0200	100.0	Pass
7	0.0375	0.0375	100.0	Pass
8	0.0198	0.0198	100.0	Pass
9	0.0446	0.0446	100.0	Pass
10	0.0277	0.0277	100.0	Pass
11	0.0557	0.0557	100.0	Pass
12	0.0235	0.0235	100.0	Pass
13	0.0193	0.0193	100.0	Pass
14	0.0324	0.0324	100.0	Pass
15	0.0127	0.0127	100.0	Pass
16	0.0080	0.0080	100.0	Pass
17	0.0286	0.0286	100.0	Pass
18	0.0083	0.0083	100.0	Pass
19	0.0122	0.0122	100.0	Pass
20	0.0215	0.0215	100.0	Pass
21	0.0162	0.0162	100.0	Pass
22	0.0005	0.0005	100.0	Pass
23	0.0047	0.0047	100.0	Pass

24	0.0056	0.0056	100.0	Pass
25	0.0132	0.0132	100.0	Pass
26	0.0058	0.0058	100.0	Pass
27	0.0082	0.0082	100.0	Pass
28	0.0069	0.0069	100.0	Pass
29	0.0044	0.0044	100.0	Pass
30	0.0078	0.0078	100.0	Pass
31	0.0086	0.0086	100.0	Pass
Aug1	0.0352	0.0352	100.0	Pass
2	0.0115	0.0115	100.0	Pass
3	0.0044	0.0044	100.0	Pass
4	0.0044	0.0044	100.0	Pass
5	0.0395	0.0395	100.0	Pass
6	0.0262	0.0262	100.0	Pass
7	0.0089	0.0089	100.0	Pass
8	0.0096	0.0096	100.0	Pass
9	0.0007	0.0007	100.0	Pass
10	0.0054	0.0054	100.0	Pass
11	0.0257	0.0257	100.0	Pass
12	0.0223	0.0223	100.0	Pass
13	0.0273	0.0273	100.0	Pass
14	0.0157	0.0157	100.0	Pass
15	0.0139	0.0139	100.0	Pass
16	0.0130	0.0130	100.0	Pass
17	0.0260	0.0260	100.0	Pass
18	0.0489	0.0489	100.0	Pass
19	0.0123	0.0123	100.0	Pass
20	0.0380	0.0380	100.0	Pass
21	0.0335	0.0335	100.0	Pass
22	0.0663	0.0663	100.0	Pass
23	0.0597	0.0597	100.0	Pass
24	0.0481	0.0481	100.0	Pass
25	0.0182	0.0182	100.0	Pass
26	0.0629	0.0629	100.0	Pass
27	0.0627	0.0627	100.0	Pass
28	0.0612	0.0612	100.0	Pass
29	0.0389	0.0389	100.0	Pass
30	0.0652	0.0652	100.0	Pass
31	0.1014	0.1014	100.0	Pass
Sep1	0.0343	0.0343	100.0	Pass
2	0.0372	0.0372	100.0	Pass
3	0.0423	0.0423	100.0	Pass
4	0.0548	0.0548	100.0	Pass
5	0.0460	0.0460	100.0	Pass
6	0.0316	0.0316	100.0	Pass
7	0.0643	0.0643	100.0	Pass
8	0.0391	0.0391	100.0	Pass
9	0.1052	0.1052	100.0	Pass
10	0.0215	0.0215	100.0	Pass
11	0.0199	0.0199	100.0	Pass
12	0.0564	0.0564	100.0	Pass
13	0.1021	0.1021	100.0	Pass
14	0.0621	0.0621	100.0	Pass
15	0.0976	0.0976	100.0	Pass
16	0.0991	0.0991	100.0	Pass
17	0.1103	0.1103	100.0	Pass
18	0.0981	0.0981	100.0	Pass

19	0.1035	0.1035	100.0	Pass
20	0.0715	0.0715	100.0	Pass
21	0.1020	0.1020	100.0	Pass
22	0.0806	0.0806	100.0	Pass
23	0.0648	0.0648	100.0	Pass
24	0.0460	0.0460	100.0	Pass
25	0.0516	0.0516	100.0	Pass
26	0.0517	0.0517	100.0	Pass
27	0.0698	0.0698	100.0	Pass
28	0.0619	0.0619	100.0	Pass
29	0.0827	0.0827	100.0	Pass
30	0.0567	0.0567	100.0	Pass
Oct1	0.0397	0.0397	100.0	Pass
2	0.1085	0.1085	100.0	Pass
3	0.0945	0.0945	100.0	Pass
4	0.1146	0.1146	100.0	Pass
5	0.1214	0.1214	100.0	Pass
6	0.1338	0.1338	100.0	Pass
7	0.1705	0.1705	100.0	Pass
8	0.1343	0.1343	100.0	Pass
9	0.1024	0.1024	100.0	Pass
10	0.0836	0.0836	100.0	Pass
11	0.1692	0.1692	100.0	Pass
12	0.1080	0.1080	100.0	Pass
13	0.1568	0.1568	100.0	Pass
14	0.0818	0.0818	100.0	Pass
15	0.1024	0.1024	100.0	Pass
16	0.1378	0.1378	100.0	Pass
17	0.1253	0.1253	100.0	Pass
18	0.2038	0.2038	100.0	Pass
19	0.2481	0.2481	100.0	Pass
20	0.2117	0.2117	100.0	Pass
21	0.2566	0.2566	100.0	Pass
22	0.1393	0.1393	100.0	Pass
23	0.2492	0.2492	100.0	Pass
24	0.2145	0.2145	100.0	Pass
25	0.1894	0.1894	100.0	Pass
26	0.2349	0.2349	100.0	Pass
27	0.1934	0.1934	100.0	Pass
28	0.1808	0.1808	100.0	Pass
29	0.1503	0.1503	100.0	Pass
30	0.2356	0.2356	100.0	Pass
31	0.1904	0.1904	100.0	Pass
Nov1	0.2443	0.2443	100.0	Pass
2	0.3028	0.3028	100.0	Pass
3	0.2210	0.2210	100.0	Pass
4	0.2302	0.2302	100.0	Pass
5	0.2554	0.2554	100.0	Pass
6	0.2067	0.2067	100.0	Pass
7	0.1878	0.1878	100.0	Pass
8	0.2541	0.2541	100.0	Pass
9	0.2990	0.2990	100.0	Pass
10	0.2493	0.2493	100.0	Pass
11	0.2820	0.2820	100.0	Pass
12	0.2602	0.2602	100.0	Pass
13	0.1840	0.1840	100.0	Pass
14	0.2282	0.2282	100.0	Pass

15	0.2570	0.2570	100.0	Pass
16	0.2698	0.2698	100.0	Pass
17	0.2417	0.2417	100.0	Pass
18	0.3663	0.3663	100.0	Pass
19	0.3172	0.3172	100.0	Pass
20	0.1977	0.1977	100.0	Pass
21	0.3367	0.3367	100.0	Pass
22	0.4051	0.4051	100.0	Pass
23	0.2899	0.2899	100.0	Pass
24	0.3405	0.3405	100.0	Pass
25	0.2093	0.2093	100.0	Pass
26	0.1699	0.1699	100.0	Pass
27	0.2226	0.2226	100.0	Pass
28	0.2122	0.2122	100.0	Pass
29	0.3655	0.3655	100.0	Pass
30	0.2765	0.2765	100.0	Pass
Dec1	0.3115	0.3115	100.0	Pass
2	0.2957	0.2957	100.0	Pass
3	0.1794	0.1794	100.0	Pass
4	0.2104	0.2104	100.0	Pass
5	0.1757	0.1757	100.0	Pass
6	0.1556	0.1556	100.0	Pass
7	0.2361	0.2361	100.0	Pass
8	0.2973	0.2973	100.0	Pass
9	0.2869	0.2869	100.0	Pass
10	0.3080	0.3080	100.0	Pass
11	0.2172	0.2172	100.0	Pass
12	0.2420	0.2420	100.0	Pass
13	0.3752	0.3752	100.0	Pass
14	0.2395	0.2395	100.0	Pass
15	0.3338	0.3338	100.0	Pass
16	0.2079	0.2079	100.0	Pass
17	0.2634	0.2634	100.0	Pass
18	0.2116	0.2116	100.0	Pass
19	0.2591	0.2591	100.0	Pass
20	0.2473	0.2473	100.0	Pass
21	0.2724	0.2724	100.0	Pass
22	0.2697	0.2697	100.0	Pass
23	0.2956	0.2956	100.0	Pass
24	0.3315	0.3315	100.0	Pass
25	0.2750	0.2750	100.0	Pass
26	0.2493	0.2493	100.0	Pass
27	0.1613	0.1613	100.0	Pass
28	0.2789	0.2789	100.0	Pass
29	0.1697	0.1697	100.0	Pass
30	0.1855	0.1855	100.0	Pass
31	0.3288	0.3288	100.0	Pass

Perlnd and Implnd Changes

No changes have been made.

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Queen Avenue Basin WWHM Modeling Report

WWHM2012 PROJECT REPORT

Project Name: Queen Street Basin
Site Name: Queen St Basin
Site Address: West Hoquiam
City : Hoquiam
Report Date: 9/3/2019
Gage : Montesano
Data Start : 1955/10/01
Data End : 2009/09/30
Precip Scale: 1.10
Version Date: 2016/02/25
Version : 4.2.12

Low Flow Threshold for POC 1 : 50 Percent of the 2 Year

High Flow Threshold for POC 1: 50 year

Low Flow Threshold for POC 2 : 50 Percent of the 2 Year

High Flow Threshold for POC 2: 50 year

Low Flow Threshold for POC 3 : 50 Percent of the 2 Year

High Flow Threshold for POC 3: 50 year

Low Flow Threshold for POC 4 : 50 Percent of the 2 Year

High Flow Threshold for POC 4: 50 year

Low Flow Threshold for POC 5 : 50 Percent of the 2 Year

High Flow Threshold for POC 5: 50 year

Low Flow Threshold for POC 6 : 50 Percent of the 2 Year

High Flow Threshold for POC 6: 50 year

Low Flow Threshold for POC 7 : 50 Percent of the 2 Year

High Flow Threshold for POC 7: 50 year

Low Flow Threshold for POC 8 : 50 Percent of the 2 Year

High Flow Threshold for POC 8: 50 year

Low Flow Threshold for POC 9 : 50 Percent of the 2 Year

High Flow Threshold for POC 9: 50 year

Low Flow Threshold for POC 10 : 50 Percent of the 2 Year

High Flow Threshold for POC 10: 50 year

Low Flow Threshold for POC 11 : 50 Percent of the 2 Year

High Flow Threshold for POC 11: 50 year

Low Flow Threshold for POC 12 : 50 Percent of the 2 Year

High Flow Threshold for POC 12: 50 year

Low Flow Threshold for POC 13 : 50 Percent of the 2 Year

High Flow Threshold for POC 13: 50 year

Low Flow Threshold for POC 14 : 50 Percent of the 2 Year

High Flow Threshold for POC 14: 50 year

Low Flow Threshold for POC 15 : 50 Percent of the 2 Year

High Flow Threshold for POC 15: 50 year

Low Flow Threshold for POC 16 : 50 Percent of the 2 Year

High Flow Threshold for POC 16: 50 year

Low Flow Threshold for POC 17 : 50 Percent of the 2 Year

High Flow Threshold for POC 17: 50 year

Low Flow Threshold for POC 18 : 50 Percent of the 2 Year

High Flow Threshold for POC 18: 50 year

Low Flow Threshold for POC 19 : 50 Percent of the 2 Year

High Flow Threshold for POC 19: 50 year

Low Flow Threshold for POC 20 : 50 Percent of the 2 Year

High Flow Threshold for POC 20: 50 year

Low Flow Threshold for POC 21 : 50 Percent of the 2 Year

High Flow Threshold for POC 21: 50 year

Low Flow Threshold for POC 22 : 50 Percent of the 2 Year

High Flow Threshold for POC 22: 50 year

Low Flow Threshold for POC 23 : 50 Percent of the 2 Year

High Flow Threshold for POC 23: 50 year

PREDEVELOPED LAND USE

Name : N1

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	1.27

Pervious Total	1.27
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<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	2.53

Impervious Total	2.53
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Basin Total 3.8

Element Flows To:
Surface Interflow Groundwater

Name : N2

Bypass: No

GroundWater: No

Pervious Land Use acre
SAT, Lawn, Flat 3.62

Pervious Total 3.62

Impervious Land Use acre
ROADS FLAT 4.15

Impervious Total 4.15

Basin Total 7.77

Element Flows To:
Surface Interflow Groundwater

Name : N3

Bypass: No

GroundWater: No

Pervious Land Use acre
SAT, Lawn, Flat 5.8

Pervious Total 5.8

Impervious Land Use acre
ROADS FLAT 5.78

Impervious Total 5.78

Basin Total 11.58

Element Flows To:
Surface Interflow Groundwater

Name : N4
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	2.92
Pervious Total	2.92
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	6.73
Impervious Total	6.73
Basin Total	9.65

Element Flows To:
Surface Interflow Groundwater

Name : N5
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.75
Pervious Total	0.75
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	3.5
Impervious Total	3.5
Basin Total	4.25

Element Flows To:
Surface Interflow Groundwater

Name : N6

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.13
Impervious Total	0.13
Basin Total	0.13

Element Flows To:		
Surface	Interflow	Groundwater

Name : N7

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	5.86
Pervious Total	5.86
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	3.2
Impervious Total	3.2
Basin Total	9.06

Element Flows To:		
Surface	Interflow	Groundwater

Name : N8

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.2
Pervious Total	0.2
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	2.11
Impervious Total	2.11
Basin Total	2.31

Element Flows To:		
Surface	Interflow	Groundwater

Name : N9
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.88
Pervious Total	0.88
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	4.38
Impervious Total	4.38
Basin Total	5.26

Element Flows To:		
Surface	Interflow	Groundwater

Name : N10
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.78
Pervious Total	0.78

<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	3.13
Impervious Total	3.13
Basin Total	3.91

Element Flows To:		
Surface	Interflow	Groundwater

Name : N11
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.09
Pervious Total	0.09

<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	1.03
Impervious Total	1.03
Basin Total	1.12

Element Flows To:		
Surface	Interflow	Groundwater

Name : N12
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.07
Pervious Total	0.07

<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.41
Impervious Total	0.41

Basin Total 0.48

Element Flows To:
Surface Interflow Groundwater

Name : N16

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.77
Pervious Total	0.77
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	1.92
Impervious Total	1.92
Basin Total	2.69

Element Flows To:
Surface Interflow Groundwater

Name : N22

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	2.35
Pervious Total	2.35
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	2.06
Impervious Total	2.06
Basin Total	4.41

Element Flows To:
Surface Interflow Groundwater

Name : N21

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.1
Pervious Total	0.1
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.11
Impervious Total	0.11
Basin Total	0.21

Element Flows To:
Surface Interflow Groundwater

Name : N20

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.02
Pervious Total	0.02
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.04
Impervious Total	0.04
Basin Total	0.06

Element Flows To:
Surface Interflow Groundwater

Name : N19

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	1.53

Pervious Total 1.53

<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	4.51

Impervious Total 4.51

Basin Total 6.04

Element Flows To:		
Surface	Interflow	Groundwater

Name : N18

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.2

Pervious Total 0.2

<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.44

Impervious Total 0.44

Basin Total 0.64

Element Flows To:		
Surface	Interflow	Groundwater

Name : N17

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.46
Pervious Total	0.46
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.74
Impervious Total	0.74
Basin Total	1.2

Element Flows To:		
Surface	Interflow	Groundwater

Name : N15

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	9.2
Pervious Total	9.2
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	7.45
Impervious Total	7.45
Basin Total	16.65

Element Flows To:		
Surface	Interflow	Groundwater

Name : N14

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.49

Pervious Total	0.49
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	1.64
Impervious Total	1.64
Basin Total	2.13

Element Flows To:		
Surface	Interflow	Groundwater

Name : N13
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	2.31
Pervious Total	2.31
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	2.57
Impervious Total	2.57
Basin Total	4.88

Element Flows To:		
Surface	Interflow	Groundwater

Name : N23
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.21
Pervious Total	0.21
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.51

Impervious Total	0.51
Basin Total	0.72

Element Flows To:		
Surface	Interflow	Groundwater

MITIGATED LAND USE

Name : N1
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	1.27

Pervious Total	1.27
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<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	2.53

Impervious Total	2.53
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Basin Total	3.8
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Element Flows To:		
Surface	Interflow	Groundwater

Name : N2
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	3.62

Pervious Total	3.62
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<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	4.15

Impervious Total	4.15
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Basin Total	7.77
-------------	------

Element Flows To:
Surface Interflow Groundwater

Name : N3
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	5.8
Pervious Total	5.8
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	5.78
Impervious Total	5.78
Basin Total	11.58

Element Flows To:
Surface Interflow Groundwater

Name : N4
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	2.92
Pervious Total	2.92
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	6.73
Impervious Total	6.73
Basin Total	9.65

Element Flows To:

Name : N21
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.1
Pervious Total	0.1
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.11
Impervious Total	0.11
Basin Total	0.21

Element Flows To:	Interflow	Groundwater
Surface		

Name : N20
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.02
Pervious Total	0.02
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.04
Impervious Total	0.04
Basin Total	0.06

Element Flows To:	Interflow	Groundwater
Surface		

Name : N19
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	1.53
Pervious Total	1.53
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	4.51
Impervious Total	4.51
Basin Total	6.04

Element Flows To:		
Surface	Interflow	Groundwater

Name : N18
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.2
Pervious Total	0.2
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.44
Impervious Total	0.44
Basin Total	0.64

Element Flows To:		
Surface	Interflow	Groundwater

Name : N6
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>acre</u>

ROADS FLAT	0.13
Impervious Total	0.13
Basin Total	0.13

Element Flows To:		
Surface	Interflow	Groundwater

Name : N7
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	5.86
Pervious Total	5.86
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	3.2
Impervious Total	3.2
Basin Total	9.06

Element Flows To:		
Surface	Interflow	Groundwater

Name : N8
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.2
Pervious Total	0.2
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	2.11
Impervious Total	2.11
Basin Total	2.31

Element Flows To:
Surface Interflow Groundwater

Name : N9
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.88
Pervious Total	0.88
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	4.38
Impervious Total	4.38
Basin Total	5.26

Element Flows To:
Surface Interflow Groundwater

Name : N10
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.78
Pervious Total	0.78
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	3.13
Impervious Total	3.13
Basin Total	3.91

Element Flows To:

Surface	Interflow	Groundwater
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Name : N11

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.09
Pervious Total	0.09
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	1.03
Impervious Total	1.03
Basin Total	1.12

Element Flows To:		
Surface	Interflow	Groundwater

Name : N12

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.07
Pervious Total	0.07
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.41
Impervious Total	0.41
Basin Total	0.48

Element Flows To:		
Surface	Interflow	Groundwater

Name : N16
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.77
Pervious Total	0.77
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	1.92
Impervious Total	1.92
Basin Total	2.69

Element Flows To:	Interflow	Groundwater
Surface		

Name : N23
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.21
Pervious Total	0.21
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.51
Impervious Total	0.51
Basin Total	0.72

Element Flows To:	Interflow	Groundwater
Surface		

Name : N13
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	2.31
Pervious Total	2.31
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	2.57
Impervious Total	2.57
Basin Total	4.88

Element Flows To:		
Surface	Interflow	Groundwater

Name : N14

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.49
Pervious Total	0.49
<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	1.64
Impervious Total	1.64
Basin Total	2.13

Element Flows To:		
Surface	Interflow	Groundwater

Name : N15

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	9.2
Pervious Total	9.2

<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	7.45
Impervious Total	7.45
Basin Total	16.65

Element Flows To:		
Surface	Interflow	Groundwater

Name : N17
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>acre</u>
SAT, Lawn, Flat	.46
Pervious Total	0.46

<u>Impervious Land Use</u>	<u>acre</u>
ROADS FLAT	0.74
Impervious Total	0.74
Basin Total	1.2

Element Flows To:		
Surface	Interflow	Groundwater

ANALYSIS RESULTS

Stream Protection Duration

Predeveloped Landuse Totals for POC #1
 Total Pervious Area:1.27
 Total Impervious Area:2.53

Mitigated Landuse Totals for POC #1
 Total Pervious Area:1.27

Total Impervious Area:2.53

Flow Frequency Return Periods for Predeveloped. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.200866
5 year	2.629314
10 year	2.862079
25 year	3.114423
50 year	3.278687
100 year	3.426674

Flow Frequency Return Periods for Mitigated. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.200866
5 year	2.629314
10 year	2.862079
25 year	3.114423
50 year	3.278687
100 year	3.426674

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #1

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	2.315	2.315
1957	2.861	2.861
1958	2.152	2.152
1959	2.404	2.404
1960	2.483	2.483
1961	1.855	1.855
1962	3.129	3.129
1963	2.943	2.943
1964	2.466	2.466
1965	2.376	2.376
1966	2.350	2.350
1967	1.606	1.606
1968	2.209	2.209
1969	2.148	2.148
1970	2.019	2.019
1971	3.005	3.005
1972	2.835	2.835
1973	2.456	2.456
1974	2.430	2.430
1975	2.242	2.242
1976	2.522	2.522
1977	1.942	1.942
1978	3.218	3.218
1979	2.239	2.239
1980	1.962	1.962
1981	2.395	2.395
1982	2.793	2.793
1983	2.182	2.182
1984	2.171	2.171
1985	1.470	1.470
1986	2.449	2.449
1987	1.749	1.749

1988	2.275	2.275
1989	2.037	2.037
1990	2.682	2.682
1991	1.718	1.718
1992	1.467	1.467
1993	1.416	1.416
1994	2.224	2.224
1995	1.774	1.774
1996	2.138	2.138
1997	2.184	2.184
1998	1.538	1.538
1999	1.893	1.893
2000	1.667	1.667
2001	1.508	1.508
2002	2.365	2.365
2003	3.126	3.126
2004	2.698	2.698
2005	2.161	2.161
2006	2.288	2.288
2007	2.702	2.702
2008	1.391	1.391
2009	1.308	1.308

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	3.2175	3.2175
2	3.1285	3.1285
3	3.1258	3.1258
4	3.0045	3.0045
5	2.9426	2.9426
6	2.8611	2.8611
7	2.8352	2.8352
8	2.7928	2.7928
9	2.7022	2.7022
10	2.6985	2.6985
11	2.6816	2.6816
12	2.5222	2.5222
13	2.4835	2.4835
14	2.4663	2.4663
15	2.4562	2.4562
16	2.4490	2.4490
17	2.4304	2.4304
18	2.4044	2.4044
19	2.3954	2.3954
20	2.3758	2.3758
21	2.3645	2.3645
22	2.3504	2.3504
23	2.3149	2.3149
24	2.2879	2.2879
25	2.2747	2.2747
26	2.2418	2.2418
27	2.2394	2.2394
28	2.2242	2.2242
29	2.2093	2.2093
30	2.1837	2.1837

31	2.1820	2.1820
32	2.1711	2.1711
33	2.1608	2.1608
34	2.1521	2.1521
35	2.1482	2.1482
36	2.1379	2.1379
37	2.0372	2.0372
38	2.0192	2.0192
39	1.9623	1.9623
40	1.9417	1.9417
41	1.8934	1.8934
42	1.8554	1.8554
43	1.7741	1.7741
44	1.7488	1.7488
45	1.7182	1.7182
46	1.6669	1.6669
47	1.6058	1.6058
48	1.5375	1.5375
49	1.5082	1.5082
50	1.4697	1.4697
51	1.4675	1.4675
52	1.4159	1.4159
53	1.3907	1.3907
54	1.3085	1.3085

Stream Protection Duration

POC #1

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.1004	1364	1364	100	Pass
1.1224	1247	1247	100	Pass
1.1444	1155	1155	100	Pass
1.1664	1069	1069	100	Pass
1.1884	985	985	100	Pass
1.2104	920	920	100	Pass
1.2324	861	861	100	Pass
1.2545	807	807	100	Pass
1.2765	757	757	100	Pass
1.2985	718	718	100	Pass
1.3205	674	674	100	Pass
1.3425	620	620	100	Pass
1.3645	569	569	100	Pass
1.3865	530	530	100	Pass
1.4085	489	489	100	Pass
1.4305	460	460	100	Pass
1.4525	424	424	100	Pass
1.4745	392	392	100	Pass
1.4965	371	371	100	Pass
1.5185	346	346	100	Pass
1.5405	328	328	100	Pass
1.5625	308	308	100	Pass
1.5845	287	287	100	Pass
1.6065	268	268	100	Pass

1.6285	252	252	100	Pass
1.6505	231	231	100	Pass
1.6725	219	219	100	Pass
1.6945	208	208	100	Pass
1.7165	194	194	100	Pass
1.7385	184	184	100	Pass
1.7605	172	172	100	Pass
1.7825	161	161	100	Pass
1.8045	153	153	100	Pass
1.8265	150	150	100	Pass
1.8485	142	142	100	Pass
1.8705	135	135	100	Pass
1.8925	129	129	100	Pass
1.9145	123	123	100	Pass
1.9365	114	114	100	Pass
1.9585	104	104	100	Pass
1.9805	101	101	100	Pass
2.0025	97	97	100	Pass
2.0245	92	92	100	Pass
2.0465	87	87	100	Pass
2.0685	82	82	100	Pass
2.0905	77	77	100	Pass
2.1126	74	74	100	Pass
2.1346	71	71	100	Pass
2.1566	66	66	100	Pass
2.1786	63	63	100	Pass
2.2006	55	55	100	Pass
2.2226	49	49	100	Pass
2.2446	45	45	100	Pass
2.2666	45	45	100	Pass
2.2886	42	42	100	Pass
2.3106	39	39	100	Pass
2.3326	37	37	100	Pass
2.3546	36	36	100	Pass
2.3766	33	33	100	Pass
2.3986	31	31	100	Pass
2.4206	27	27	100	Pass
2.4426	25	25	100	Pass
2.4646	23	23	100	Pass
2.4866	21	21	100	Pass
2.5086	21	21	100	Pass
2.5306	20	20	100	Pass
2.5526	19	19	100	Pass
2.5746	18	18	100	Pass
2.5966	17	17	100	Pass
2.6186	17	17	100	Pass
2.6406	17	17	100	Pass
2.6626	15	15	100	Pass
2.6846	13	13	100	Pass
2.7066	10	10	100	Pass
2.7286	10	10	100	Pass
2.7506	10	10	100	Pass
2.7726	10	10	100	Pass
2.7946	9	9	100	Pass
2.8166	9	9	100	Pass
2.8386	8	8	100	Pass
2.8606	7	7	100	Pass

2.8826	6	6	100	Pass
2.9046	6	6	100	Pass
2.9266	6	6	100	Pass
2.9486	5	5	100	Pass
2.9707	5	5	100	Pass
2.9927	5	5	100	Pass
3.0147	4	4	100	Pass
3.0367	4	4	100	Pass
3.0587	3	3	100	Pass
3.0807	3	3	100	Pass
3.1027	3	3	100	Pass
3.1247	3	3	100	Pass
3.1467	1	1	100	Pass
3.1687	1	1	100	Pass
3.1907	1	1	100	Pass
3.2127	1	1	100	Pass
3.2347	0	0	100	Pass
3.2567	0	0	0	Pass
3.2787	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #1
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
	Treatment?	Needs	Through	(ac-ft.)	Infiltration
Volumn	Water Quality	Treatment	Facility		
Infiltrated	Treated	(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #2

Total Pervious Area:3.62

Total Impervious Area:4.15

Mitigated Landuse Totals for POC #2

Total Pervious Area:3.62

Total Impervious Area:4.15

Flow Frequency Return Periods for Predeveloped. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	4.056729
5 year	4.902136
10 year	5.36525
25 year	5.870059
50 year	6.200092
100 year	6.498336

Flow Frequency Return Periods for Mitigated. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	4.056729
5 year	4.902136
10 year	5.36525
25 year	5.870059
50 year	6.200092
100 year	6.498336

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #2

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	4.297	4.297
1957	5.228	5.228
1958	3.837	3.837
1959	4.644	4.644
1960	4.795	4.795
1961	3.687	3.687
1962	5.907	5.907
1963	5.604	5.604
1964	4.564	4.564
1965	4.473	4.473
1966	4.358	4.358
1967	3.032	3.032
1968	4.013	4.013
1969	3.979	3.979

1970	3.629	3.629
1971	5.473	5.473
1972	5.492	5.492
1973	4.504	4.504
1974	4.600	4.600
1975	4.292	4.292
1976	4.709	4.709
1977	3.652	3.652
1978	5.903	5.903
1979	4.345	4.345
1980	3.879	3.879
1981	4.393	4.393
1982	5.158	5.158
1983	4.012	4.012
1984	4.175	4.175
1985	2.641	2.641
1986	4.533	4.533
1987	3.266	3.266
1988	3.902	3.902
1989	3.602	3.602
1990	4.851	4.851
1991	3.266	3.266
1992	2.830	2.830
1993	2.376	2.376
1994	4.260	4.260
1995	2.911	2.911
1996	3.507	3.507
1997	4.064	4.064
1998	2.836	2.836
1999	3.500	3.500
2000	2.983	2.983
2001	2.504	2.504
2002	3.895	3.895
2003	5.978	5.978
2004	4.939	4.939
2005	3.958	3.958
2006	4.286	4.286
2007	5.090	5.090
2008	2.529	2.529
2009	2.392	2.392

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	5.9785	5.9785
2	5.9065	5.9065
3	5.9031	5.9031
4	5.6045	5.6045
5	5.4921	5.4921
6	5.4733	5.4733
7	5.2282	5.2282
8	5.1576	5.1576
9	5.0898	5.0898
10	4.9385	4.9385
11	4.8515	4.8515
12	4.7952	4.7952

13	4.7095	4.7095
14	4.6440	4.6440
15	4.5999	4.5999
16	4.5640	4.5640
17	4.5332	4.5332
18	4.5036	4.5036
19	4.4731	4.4731
20	4.3934	4.3934
21	4.3583	4.3583
22	4.3454	4.3454
23	4.2968	4.2968
24	4.2916	4.2916
25	4.2861	4.2861
26	4.2599	4.2599
27	4.1746	4.1746
28	4.0645	4.0645
29	4.0132	4.0132
30	4.0117	4.0117
31	3.9791	3.9791
32	3.9584	3.9584
33	3.9017	3.9017
34	3.8946	3.8946
35	3.8786	3.8786
36	3.8372	3.8372
37	3.6872	3.6872
38	3.6516	3.6516
39	3.6294	3.6294
40	3.6020	3.6020
41	3.5072	3.5072
42	3.4999	3.4999
43	3.2664	3.2664
44	3.2659	3.2659
45	3.0315	3.0315
46	2.9833	2.9833
47	2.9106	2.9106
48	2.8363	2.8363
49	2.8304	2.8304
50	2.6409	2.6409
51	2.5288	2.5288
52	2.5045	2.5045
53	2.3923	2.3923
54	2.3764	2.3764

Stream Protection Duration

POC #2

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.0284	1459	1459	100	Pass
2.0705	1352	1352	100	Pass
2.1126	1248	1248	100	Pass
2.1548	1159	1159	100	Pass
2.1969	1073	1073	100	Pass
2.2391	994	994	100	Pass

2.2812	933	933	100	Pass
2.3233	866	866	100	Pass
2.3655	801	801	100	Pass
2.4076	759	759	100	Pass
2.4498	718	718	100	Pass
2.4919	665	665	100	Pass
2.5340	614	614	100	Pass
2.5762	575	575	100	Pass
2.6183	538	538	100	Pass
2.6604	505	505	100	Pass
2.7026	468	468	100	Pass
2.7447	430	430	100	Pass
2.7869	399	399	100	Pass
2.8290	364	364	100	Pass
2.8711	341	341	100	Pass
2.9133	320	320	100	Pass
2.9554	307	307	100	Pass
2.9976	285	285	100	Pass
3.0397	270	270	100	Pass
3.0818	253	253	100	Pass
3.1240	226	226	100	Pass
3.1661	214	214	100	Pass
3.2082	204	204	100	Pass
3.2504	194	194	100	Pass
3.2925	185	185	100	Pass
3.3347	180	180	100	Pass
3.3768	170	170	100	Pass
3.4189	160	160	100	Pass
3.4611	154	154	100	Pass
3.5032	140	140	100	Pass
3.5454	132	132	100	Pass
3.5875	128	128	100	Pass
3.6296	119	119	100	Pass
3.6718	114	114	100	Pass
3.7139	109	109	100	Pass
3.7560	99	99	100	Pass
3.7982	90	90	100	Pass
3.8403	86	86	100	Pass
3.8825	84	84	100	Pass
3.9246	80	80	100	Pass
3.9667	74	74	100	Pass
4.0089	67	67	100	Pass
4.0510	62	62	100	Pass
4.0932	56	56	100	Pass
4.1353	55	55	100	Pass
4.1774	54	54	100	Pass
4.2196	53	53	100	Pass
4.2617	47	47	100	Pass
4.3039	43	43	100	Pass
4.3460	40	40	100	Pass
4.3881	36	36	100	Pass
4.4303	35	35	100	Pass
4.4724	32	32	100	Pass
4.5145	30	30	100	Pass
4.5567	27	27	100	Pass
4.5988	25	25	100	Pass
4.6410	22	22	100	Pass

4.6831	20	20	100	Pass
4.7252	19	19	100	Pass
4.7674	19	19	100	Pass
4.8095	18	18	100	Pass
4.8517	18	18	100	Pass
4.8938	16	16	100	Pass
4.9359	16	16	100	Pass
4.9781	15	15	100	Pass
5.0202	14	14	100	Pass
5.0623	13	13	100	Pass
5.1045	12	12	100	Pass
5.1466	12	12	100	Pass
5.1888	10	10	100	Pass
5.2309	7	7	100	Pass
5.2730	7	7	100	Pass
5.3152	7	7	100	Pass
5.3573	7	7	100	Pass
5.3995	7	7	100	Pass
5.4416	7	7	100	Pass
5.4837	6	6	100	Pass
5.5259	5	5	100	Pass
5.5680	5	5	100	Pass
5.6102	4	4	100	Pass
5.6523	4	4	100	Pass
5.6944	4	4	100	Pass
5.7366	4	4	100	Pass
5.7787	4	4	100	Pass
5.8208	4	4	100	Pass
5.8630	4	4	100	Pass
5.9051	2	2	100	Pass
5.9473	1	1	100	Pass
5.9894	0	0	100	Pass
6.0315	0	0	0	Pass
6.0737	0	0	0	Pass
6.1158	0	0	0	Pass
6.1580	0	0	0	Pass
6.2001	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #2

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
	Treatment?	Needs	Through	(ac-ft.)	Infiltration
Volumn	Water Quality	Treatment	Facility		
Infiltrated	Treated	(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #3

Total Pervious Area:5.8

Total Impervious Area:5.78

Mitigated Landuse Totals for POC #3

Total Pervious Area:5.8

Total Impervious Area:5.78

Flow Frequency Return Periods for Predeveloped. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	5.876637
5 year	7.123415
10 year	7.807946
25 year	8.555208
50 year	9.044331
100 year	9.486708

Flow Frequency Return Periods for Mitigated. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	5.876637
5 year	7.123415
10 year	7.807946
25 year	8.555208
50 year	9.044331
100 year	9.486708

Stream Protection Duration**Annual Peaks for Predeveloped and Mitigated. POC #3**

Year	Predeveloped	Mitigated
1956	6.231	6.231
1957	7.546	7.546
1958	5.496	5.496
1959	6.813	6.813
1960	7.035	7.035
1961	5.453	5.453
1962	8.609	8.609
1963	8.189	8.189
1964	6.612	6.612
1965	6.516	6.516
1966	6.318	6.318
1967	4.418	4.418
1968	5.782	5.782
1969	5.767	5.767
1970	5.211	5.211
1971	7.892	7.892
1972	8.064	8.064
1973	6.507	6.507
1974	6.709	6.709
1975	6.280	6.280
1976	6.918	6.918
1977	5.316	5.316
1978	8.530	8.530
1979	6.384	6.384
1980	5.735	5.735
1981	6.348	6.348
1982	7.468	7.468
1983	5.801	5.801
1984	6.117	6.117
1985	3.792	3.792
1986	6.568	6.568
1987	4.746	4.746
1988	5.518	5.518
1989	5.145	5.145
1990	6.980	6.980
1991	4.769	4.769
1992	4.151	4.151
1993	3.446	3.446
1994	6.235	6.235
1995	4.054	4.054
1996	4.885	4.885
1997	5.943	5.943
1998	4.105	4.105
1999	5.072	5.072
2000	4.278	4.278
2001	3.503	3.503
2002	5.432	5.432
2003	8.747	8.747
2004	7.131	7.131
2005	5.717	5.717
2006	6.233	6.233
2007	7.413	7.413
2008	3.705	3.705

2009

3.490

3.490

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	8.7466	8.7466
2	8.6087	8.6087
3	8.5301	8.5301
4	8.1894	8.1894
5	8.0644	8.0644
6	7.8920	7.8920
7	7.5458	7.5458
8	7.4678	7.4678
9	7.4132	7.4132
10	7.1309	7.1309
11	7.0346	7.0346
12	6.9804	6.9804
13	6.9185	6.9185
14	6.8134	6.8134
15	6.7092	6.7092
16	6.6124	6.6124
17	6.5683	6.5683
18	6.5158	6.5158
19	6.5067	6.5067
20	6.3836	6.3836
21	6.3481	6.3481
22	6.3183	6.3183
23	6.2802	6.2802
24	6.2348	6.2348
25	6.2326	6.2326
26	6.2310	6.2310
27	6.1168	6.1168
28	5.9429	5.9429
29	5.8008	5.8008
30	5.7815	5.7815
31	5.7666	5.7666
32	5.7354	5.7354
33	5.7173	5.7173
34	5.5184	5.5184
35	5.4958	5.4958
36	5.4530	5.4530
37	5.4322	5.4322
38	5.3160	5.3160
39	5.2114	5.2114
40	5.1453	5.1453
41	5.0718	5.0718
42	4.8849	4.8849
43	4.7695	4.7695
44	4.7456	4.7456
45	4.4183	4.4183
46	4.2778	4.2778
47	4.1508	4.1508
48	4.1053	4.1053
49	4.0541	4.0541
50	3.7918	3.7918
51	3.7048	3.7048

52	3.5033	3.5033
53	3.4901	3.4901
54	3.4456	3.4456

Stream Protection Duration

POC #3

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.9383	1488	1488	100	Pass
3.0000	1386	1386	100	Pass
3.0617	1291	1291	100	Pass
3.1233	1193	1193	100	Pass
3.1850	1102	1102	100	Pass
3.2467	1019	1019	100	Pass
3.3084	951	951	100	Pass
3.3701	900	900	100	Pass
3.4317	821	821	100	Pass
3.4934	769	769	100	Pass
3.5551	724	724	100	Pass
3.6168	681	681	100	Pass
3.6784	633	633	100	Pass
3.7401	580	580	100	Pass
3.8018	553	553	100	Pass
3.8635	520	520	100	Pass
3.9251	479	479	100	Pass
3.9868	448	448	100	Pass
4.0485	404	404	100	Pass
4.1102	373	373	100	Pass
4.1719	350	350	100	Pass
4.2335	331	331	100	Pass
4.2952	310	310	100	Pass
4.3569	292	292	100	Pass
4.4186	269	269	100	Pass
4.4802	257	257	100	Pass
4.5419	240	240	100	Pass
4.6036	225	225	100	Pass
4.6653	208	208	100	Pass
4.7269	198	198	100	Pass
4.7886	187	187	100	Pass
4.8503	183	183	100	Pass
4.9120	170	170	100	Pass
4.9737	168	168	100	Pass
5.0353	154	154	100	Pass
5.0970	144	144	100	Pass
5.1587	134	134	100	Pass
5.2204	130	130	100	Pass
5.2820	121	121	100	Pass
5.3437	116	116	100	Pass
5.4054	110	110	100	Pass
5.4671	98	98	100	Pass
5.5287	91	91	100	Pass
5.5904	86	86	100	Pass
5.6521	82	82	100	Pass

5.7138	82	82	100	Pass
5.7755	77	77	100	Pass
5.8371	68	68	100	Pass
5.8988	61	61	100	Pass
5.9605	59	59	100	Pass
6.0222	57	57	100	Pass
6.0838	56	56	100	Pass
6.1455	53	53	100	Pass
6.2072	49	49	100	Pass
6.2689	43	43	100	Pass
6.3305	39	39	100	Pass
6.3922	37	37	100	Pass
6.4539	36	36	100	Pass
6.5156	32	32	100	Pass
6.5773	30	30	100	Pass
6.6389	26	26	100	Pass
6.7006	24	24	100	Pass
6.7623	22	22	100	Pass
6.8240	21	21	100	Pass
6.8856	20	20	100	Pass
6.9473	19	19	100	Pass
7.0090	18	18	100	Pass
7.0707	16	16	100	Pass
7.1323	15	15	100	Pass
7.1940	15	15	100	Pass
7.2557	15	15	100	Pass
7.3174	14	14	100	Pass
7.3791	13	13	100	Pass
7.4407	12	12	100	Pass
7.5024	11	11	100	Pass
7.5641	9	9	100	Pass
7.6258	8	8	100	Pass
7.6874	7	7	100	Pass
7.7491	7	7	100	Pass
7.8108	7	7	100	Pass
7.8725	7	7	100	Pass
7.9341	6	6	100	Pass
7.9958	6	6	100	Pass
8.0575	6	6	100	Pass
8.1192	5	5	100	Pass
8.1809	5	5	100	Pass
8.2425	4	4	100	Pass
8.3042	4	4	100	Pass
8.3659	4	4	100	Pass
8.4276	4	4	100	Pass
8.4892	4	4	100	Pass
8.5509	3	3	100	Pass
8.6126	2	2	100	Pass
8.6743	1	1	100	Pass
8.7359	1	1	100	Pass
8.7976	0	0	100	Pass
8.8593	0	0	0	Pass
8.9210	0	0	0	Pass
8.9827	0	0	0	Pass
9.0443	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #3

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
Volumn	Treatment?	Needs	Through	(ac-ft.)	Infiltration
Infiltrated	Water Quality	Treatment	Facility		Credit
	Treated	(ac-ft)	(ac-ft)		

Stream Protection Duration

Predeveloped Landuse Totals for POC #4

Total Pervious Area:2.92

Total Impervious Area:6.73

Mitigated Landuse Totals for POC #4

Total Pervious Area:2.92

Total Impervious Area:6.73

Flow Frequency Return Periods for Predeveloped. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	5.702513
5 year	6.821743
10 year	7.445998
25 year	8.137943
50 year	8.597835
100 year	9.01917

Flow Frequency Return Periods for Mitigated. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	5.702513
5 year	6.821743
10 year	7.445998
25 year	8.137943
50 year	8.597835
100 year	9.01917

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #4

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	6.009	6.009
1957	7.451	7.451
1958	5.633	5.633
1959	6.187	6.187
1960	6.391	6.391
1961	4.743	4.743
1962	8.091	8.091
1963	7.596	7.596
1964	6.406	6.406
1965	6.185	6.185
1966	6.102	6.102
1967	4.153	4.153
1968	5.761	5.761
1969	5.579	5.579
1970	5.277	5.277
1971	7.830	7.830
1972	7.291	7.291
1973	6.392	6.392
1974	6.282	6.282
1975	5.780	5.780
1976	6.559	6.559
1977	5.026	5.026
1978	8.372	8.372
1979	5.757	5.757
1980	5.055	5.055
1981	6.234	6.234
1982	7.257	7.257
1983	5.675	5.675
1984	5.593	5.593
1985	3.841	3.841
1986	6.361	6.361
1987	4.533	4.533
1988	6.000	6.000
1989	5.341	5.341
1990	6.998	6.998

1991	4.473	4.473
1992	3.777	3.777
1993	3.765	3.765
1994	5.734	5.734
1995	4.719	4.719
1996	5.687	5.687
1997	5.669	5.669
1998	3.996	3.996
1999	4.928	4.928
2000	4.360	4.360
2001	4.003	4.003
2002	6.285	6.285
2003	8.061	8.061
2004	7.025	7.025
2005	5.625	5.625
2006	5.927	5.927
2007	6.992	6.992
2008	3.626	3.626
2009	3.417	3.417

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	8.3724	8.3724
2	8.0911	8.0911
3	8.0609	8.0609
4	7.8297	7.8297
5	7.5955	7.5955
6	7.4511	7.4511
7	7.2909	7.2909
8	7.2573	7.2573
9	7.0254	7.0254
10	6.9983	6.9983
11	6.9922	6.9922
12	6.5594	6.5594
13	6.4060	6.4060
14	6.3920	6.3920
15	6.3910	6.3910
16	6.3607	6.3607
17	6.2850	6.2850
18	6.2821	6.2821
19	6.2336	6.2336
20	6.1872	6.1872
21	6.1849	6.1849
22	6.1023	6.1023
23	6.0087	6.0087
24	6.0000	6.0000
25	5.9271	5.9271
26	5.7803	5.7803
27	5.7607	5.7607
28	5.7566	5.7566
29	5.7342	5.7342
30	5.6869	5.6869
31	5.6753	5.6753
32	5.6693	5.6693
33	5.6332	5.6332

34	5.6246	5.6246
35	5.5925	5.5925
36	5.5785	5.5785
37	5.3414	5.3414
38	5.2765	5.2765
39	5.0548	5.0548
40	5.0258	5.0258
41	4.9285	4.9285
42	4.7434	4.7434
43	4.7191	4.7191
44	4.5332	4.5332
45	4.4727	4.4727
46	4.3599	4.3599
47	4.1531	4.1531
48	4.0027	4.0027
49	3.9962	3.9962
50	3.8407	3.8407
51	3.7774	3.7774
52	3.7650	3.7650
53	3.6260	3.6260
54	3.4168	3.4168

Stream Protection Duration

POC #4

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.8513	1359	1359	100	Pass
2.9093	1246	1246	100	Pass
2.9673	1150	1150	100	Pass
3.0254	1062	1062	100	Pass
3.0834	990	990	100	Pass
3.1415	906	906	100	Pass
3.1995	853	853	100	Pass
3.2576	795	795	100	Pass
3.3156	749	749	100	Pass
3.3737	710	710	100	Pass
3.4317	660	660	100	Pass
3.4898	612	612	100	Pass
3.5478	557	557	100	Pass
3.6059	520	520	100	Pass
3.6639	486	486	100	Pass
3.7220	449	449	100	Pass
3.7800	411	411	100	Pass
3.8380	384	384	100	Pass
3.8961	356	356	100	Pass
3.9541	338	338	100	Pass
4.0122	321	321	100	Pass
4.0702	298	298	100	Pass
4.1283	277	277	100	Pass
4.1863	260	260	100	Pass
4.2444	242	242	100	Pass
4.3024	224	224	100	Pass
4.3605	213	213	100	Pass

4.4185	199	199	100	Pass
4.4766	187	187	100	Pass
4.5346	179	179	100	Pass
4.5926	164	164	100	Pass
4.6507	155	155	100	Pass
4.7087	153	153	100	Pass
4.7668	142	142	100	Pass
4.8248	139	139	100	Pass
4.8829	132	132	100	Pass
4.9409	119	119	100	Pass
4.9990	115	115	100	Pass
5.0570	105	105	100	Pass
5.1151	102	102	100	Pass
5.1731	98	98	100	Pass
5.2312	92	92	100	Pass
5.2892	86	86	100	Pass
5.3472	83	83	100	Pass
5.4053	79	79	100	Pass
5.4633	75	75	100	Pass
5.5214	73	73	100	Pass
5.5794	68	68	100	Pass
5.6375	62	62	100	Pass
5.6955	56	56	100	Pass
5.7536	49	49	100	Pass
5.8116	46	46	100	Pass
5.8697	45	45	100	Pass
5.9277	42	42	100	Pass
5.9858	40	40	100	Pass
6.0438	37	37	100	Pass
6.1018	37	37	100	Pass
6.1599	34	34	100	Pass
6.2179	32	32	100	Pass
6.2760	29	29	100	Pass
6.3340	25	25	100	Pass
6.3921	23	23	100	Pass
6.4501	21	21	100	Pass
6.5082	21	21	100	Pass
6.5662	20	20	100	Pass
6.6243	18	18	100	Pass
6.6823	18	18	100	Pass
6.7404	17	17	100	Pass
6.7984	16	16	100	Pass
6.8564	15	15	100	Pass
6.9145	14	14	100	Pass
6.9725	13	13	100	Pass
7.0306	10	10	100	Pass
7.0886	10	10	100	Pass
7.1467	10	10	100	Pass
7.2047	10	10	100	Pass
7.2628	9	9	100	Pass
7.3208	8	8	100	Pass
7.3789	8	8	100	Pass
7.4369	7	7	100	Pass
7.4950	6	6	100	Pass
7.5530	6	6	100	Pass
7.6110	5	5	100	Pass
7.6691	5	5	100	Pass

7.7271	5	5	100	Pass
7.7852	5	5	100	Pass
7.8432	3	3	100	Pass
7.9013	3	3	100	Pass
7.9593	3	3	100	Pass
8.0174	3	3	100	Pass
8.0754	2	2	100	Pass
8.1335	1	1	100	Pass
8.1915	1	1	100	Pass
8.2496	1	1	100	Pass
8.3076	1	1	100	Pass
8.3657	1	1	100	Pass
8.4237	0	0	100	Pass
8.4817	0	0	0	Pass
8.5398	0	0	0	Pass
8.5978	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
		Treatment?	Needs	Through	
Volumn		Water Quality	Treatment	Facility	(ac-ft.)
Infiltrated	Treated		(ac-ft)	(ac-ft)	Infiltration
					Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #5
Total Pervious Area:0.75
Total Impervious Area:3.5

Mitigated Landuse Totals for POC #5
Total Pervious Area:0.75
Total Impervious Area:3.5

Flow Frequency Return Periods for Predeveloped. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.75506
5 year	3.272768
10 year	3.560042
25 year	3.877368
50 year	4.087685
100 year	4.279983

Flow Frequency Return Periods for Mitigated. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.75506
5 year	3.272768
10 year	3.560042
25 year	3.877368
50 year	4.087685
100 year	4.279983

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #5

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	2.875	2.875
1957	3.607	3.607
1958	2.776	2.776
1959	2.868	2.868
1960	2.963	2.963
1961	2.302	2.302
1962	3.820	3.820
1963	3.561	3.561
1964	3.072	3.072
1965	2.990	2.990
1966	2.922	2.922
1967	1.961	1.961
1968	2.801	2.801
1969	2.673	2.673
1970	2.585	2.585
1971	3.799	3.799
1972	3.371	3.371

1973	3.087	3.087
1974	2.960	2.960
1975	2.699	2.699
1976	3.160	3.160
1977	2.380	2.380
1978	4.041	4.041
1979	2.658	2.658
1980	2.360	2.360
1981	3.010	3.010
1982	3.486	3.486
1983	2.735	2.735
1984	2.602	2.602
1985	1.920	1.920
1986	3.050	3.050
1987	2.159	2.159
1988	3.035	3.035
1989	2.648	2.648
1990	3.413	3.413
1991	2.248	2.248
1992	1.789	1.789
1993	1.956	1.956
1994	2.676	2.676
1995	2.454	2.454
1996	2.957	2.957
1997	2.802	2.802
1998	1.921	1.921
1999	2.382	2.382
2000	2.143	2.143
2001	2.066	2.066
2002	3.261	3.261
2003	3.766	3.766
2004	3.397	3.397
2005	2.718	2.718
2006	2.816	2.816
2007	3.308	3.308
2008	1.763	1.763
2009	1.670	1.670

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	4.0414	4.0414
2	3.8204	3.8204
3	3.7994	3.7994
4	3.7664	3.7664
5	3.6074	3.6074
6	3.5612	3.5612
7	3.4859	3.4859
8	3.4131	3.4131
9	3.3975	3.3975
10	3.3709	3.3709
11	3.3076	3.3076
12	3.2605	3.2605
13	3.1599	3.1599
14	3.0868	3.0868
15	3.0722	3.0722

16	3.0498	3.0498
17	3.0351	3.0351
18	3.0097	3.0097
19	2.9902	2.9902
20	2.9628	2.9628
21	2.9604	2.9604
22	2.9573	2.9573
23	2.9221	2.9221
24	2.8750	2.8750
25	2.8677	2.8677
26	2.8158	2.8158
27	2.8020	2.8020
28	2.8012	2.8012
29	2.7761	2.7761
30	2.7352	2.7352
31	2.7181	2.7181
32	2.6989	2.6989
33	2.6763	2.6763
34	2.6734	2.6734
35	2.6577	2.6577
36	2.6476	2.6476
37	2.6018	2.6018
38	2.5854	2.5854
39	2.4539	2.4539
40	2.3818	2.3818
41	2.3804	2.3804
42	2.3597	2.3597
43	2.3020	2.3020
44	2.2479	2.2479
45	2.1585	2.1585
46	2.1429	2.1429
47	2.0663	2.0663
48	1.9611	1.9611
49	1.9557	1.9557
50	1.9211	1.9211
51	1.9197	1.9197
52	1.7891	1.7891
53	1.7627	1.7627
54	1.6698	1.6698

Stream Protection Duration

POC #5

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.3775	1297	1297	100	Pass
1.4049	1210	1210	100	Pass
1.4323	1115	1115	100	Pass
1.4597	1019	1019	100	Pass
1.4870	949	949	100	Pass
1.5144	883	883	100	Pass
1.5418	818	818	100	Pass
1.5692	770	770	100	Pass
1.5965	711	711	100	Pass

1.6239	652	652	100	Pass
1.6513	607	607	100	Pass
1.6787	569	569	100	Pass
1.7060	533	533	100	Pass
1.7334	498	498	100	Pass
1.7608	464	464	100	Pass
1.7882	417	417	100	Pass
1.8155	394	394	100	Pass
1.8429	369	369	100	Pass
1.8703	351	351	100	Pass
1.8977	332	332	100	Pass
1.9250	299	299	100	Pass
1.9524	282	282	100	Pass
1.9798	258	258	100	Pass
2.0072	248	248	100	Pass
2.0345	234	234	100	Pass
2.0619	223	223	100	Pass
2.0893	207	207	100	Pass
2.1167	197	197	100	Pass
2.1440	182	182	100	Pass
2.1714	170	170	100	Pass
2.1988	163	163	100	Pass
2.2262	159	159	100	Pass
2.2535	152	152	100	Pass
2.2809	142	142	100	Pass
2.3083	133	133	100	Pass
2.3357	128	128	100	Pass
2.3630	115	115	100	Pass
2.3904	109	109	100	Pass
2.4178	103	103	100	Pass
2.4452	101	101	100	Pass
2.4725	89	89	100	Pass
2.4999	87	87	100	Pass
2.5273	83	83	100	Pass
2.5547	82	82	100	Pass
2.5820	78	78	100	Pass
2.6094	73	73	100	Pass
2.6368	70	70	100	Pass
2.6642	66	66	100	Pass
2.6915	62	62	100	Pass
2.7189	56	56	100	Pass
2.7463	52	52	100	Pass
2.7737	50	50	100	Pass
2.8010	48	48	100	Pass
2.8284	42	42	100	Pass
2.8558	41	41	100	Pass
2.8832	38	38	100	Pass
2.9105	37	37	100	Pass
2.9379	36	36	100	Pass
2.9653	32	32	100	Pass
2.9927	30	30	100	Pass
3.0200	28	28	100	Pass
3.0474	26	26	100	Pass
3.0748	24	24	100	Pass
3.1022	23	23	100	Pass
3.1295	20	20	100	Pass
3.1569	19	19	100	Pass

3.1843	18	18	100	Pass
3.2117	18	18	100	Pass
3.2391	17	17	100	Pass
3.2664	16	16	100	Pass
3.2938	15	15	100	Pass
3.3212	12	12	100	Pass
3.3486	12	12	100	Pass
3.3759	11	11	100	Pass
3.4033	10	10	100	Pass
3.4307	9	9	100	Pass
3.4581	9	9	100	Pass
3.4854	9	9	100	Pass
3.5128	8	8	100	Pass
3.5402	8	8	100	Pass
3.5676	7	7	100	Pass
3.5949	6	6	100	Pass
3.6223	4	4	100	Pass
3.6497	4	4	100	Pass
3.6771	4	4	100	Pass
3.7044	4	4	100	Pass
3.7318	4	4	100	Pass
3.7592	4	4	100	Pass
3.7866	3	3	100	Pass
3.8139	2	2	100	Pass
3.8413	1	1	100	Pass
3.8687	1	1	100	Pass
3.8961	1	1	100	Pass
3.9234	1	1	100	Pass
3.9508	1	1	100	Pass
3.9782	1	1	100	Pass
4.0056	1	1	100	Pass
4.0329	1	1	100	Pass
4.0603	0	0	100	Pass
4.0877	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #5

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
	Treatment?	Needs	Through	(ac-ft.)	Infiltration
Volumn	Water Quality	Treatment	Facility		
Infiltrated	Treated	(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #6

Total Pervious Area:0

Total Impervious Area:0.13

Mitigated Landuse Totals for POC #6

Total Pervious Area:0

Total Impervious Area:0.13

Flow Frequency Return Periods for Predeveloped. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.095152
5 year	0.112069
10 year	0.121397
25 year	0.131657
50 year	0.138434
100 year	0.144615

Flow Frequency Return Periods for Mitigated. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.095152
5 year	0.112069
10 year	0.121397
25 year	0.131657
50 year	0.138434
100 year	0.144615

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #6

Year	Predeveloped	Mitigated
1956	0.098	0.098
1957	0.124	0.124
1958	0.098	0.098
1959	0.094	0.094
1960	0.097	0.097
1961	0.084	0.084
1962	0.128	0.128
1963	0.118	0.118
1964	0.105	0.105
1965	0.103	0.103
1966	0.099	0.099
1967	0.066	0.066
1968	0.097	0.097
1969	0.091	0.091
1970	0.090	0.090
1971	0.131	0.131
1972	0.110	0.110
1973	0.106	0.106
1974	0.099	0.099
1975	0.089	0.089
1976	0.108	0.108
1977	0.080	0.080
1978	0.139	0.139
1979	0.087	0.087
1980	0.081	0.081
1981	0.103	0.103
1982	0.119	0.119
1983	0.094	0.094
1984	0.086	0.086
1985	0.069	0.069
1986	0.104	0.104
1987	0.073	0.073
1988	0.110	0.110
1989	0.094	0.094
1990	0.119	0.119
1991	0.083	0.083
1992	0.065	0.065
1993	0.073	0.073
1994	0.088	0.088
1995	0.091	0.091
1996	0.110	0.110
1997	0.104	0.104
1998	0.068	0.068
1999	0.082	0.082
2000	0.078	0.078
2001	0.076	0.076
2002	0.121	0.121
2003	0.124	0.124
2004	0.117	0.117
2005	0.093	0.093
2006	0.095	0.095
2007	0.111	0.111
2008	0.061	0.061
2009	0.058	0.058

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	0.1388	0.1388
2	0.1312	0.1312
3	0.1279	0.1279
4	0.1245	0.1245
5	0.1243	0.1243
6	0.1208	0.1208
7	0.1190	0.1190
8	0.1186	0.1186
9	0.1182	0.1182
10	0.1169	0.1169
11	0.1109	0.1109
12	0.1100	0.1100
13	0.1098	0.1098
14	0.1096	0.1096
15	0.1083	0.1083
16	0.1060	0.1060
17	0.1047	0.1047
18	0.1039	0.1039
19	0.1035	0.1035
20	0.1034	0.1034
21	0.1029	0.1029
22	0.0994	0.0994
23	0.0988	0.0988
24	0.0977	0.0977
25	0.0975	0.0975
26	0.0970	0.0970
27	0.0970	0.0970
28	0.0949	0.0949
29	0.0938	0.0938
30	0.0938	0.0938
31	0.0936	0.0936
32	0.0935	0.0935
33	0.0911	0.0911
34	0.0910	0.0910
35	0.0903	0.0903
36	0.0891	0.0891
37	0.0883	0.0883
38	0.0865	0.0865
39	0.0858	0.0858
40	0.0838	0.0838
41	0.0835	0.0835
42	0.0819	0.0819
43	0.0808	0.0808
44	0.0800	0.0800
45	0.0776	0.0776
46	0.0762	0.0762
47	0.0730	0.0730
48	0.0726	0.0726
49	0.0687	0.0687
50	0.0678	0.0678
51	0.0656	0.0656
52	0.0650	0.0650
53	0.0610	0.0610
54	0.0581	0.0581

Stream Protection Duration

POC #6

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0476	1214	1214	100	Pass
0.0485	1129	1129	100	Pass
0.0494	1060	1060	100	Pass
0.0503	986	986	100	Pass
0.0512	925	925	100	Pass
0.0522	862	862	100	Pass
0.0531	793	793	100	Pass
0.0540	734	734	100	Pass
0.0549	681	681	100	Pass
0.0558	631	631	100	Pass
0.0568	578	578	100	Pass
0.0577	538	538	100	Pass
0.0586	499	499	100	Pass
0.0595	467	467	100	Pass
0.0604	424	424	100	Pass
0.0613	394	394	100	Pass
0.0623	367	367	100	Pass
0.0632	346	346	100	Pass
0.0641	326	326	100	Pass
0.0650	305	305	100	Pass
0.0659	288	288	100	Pass
0.0668	272	272	100	Pass
0.0678	255	255	100	Pass
0.0687	236	236	100	Pass
0.0696	226	226	100	Pass
0.0705	217	217	100	Pass
0.0714	210	210	100	Pass
0.0724	196	196	100	Pass
0.0733	189	189	100	Pass
0.0742	178	178	100	Pass
0.0751	169	169	100	Pass
0.0760	161	161	100	Pass
0.0769	154	154	100	Pass
0.0779	141	141	100	Pass
0.0788	131	131	100	Pass
0.0797	123	123	100	Pass
0.0806	115	115	100	Pass
0.0815	110	110	100	Pass
0.0825	105	105	100	Pass
0.0834	102	102	100	Pass
0.0843	96	96	100	Pass
0.0852	94	94	100	Pass
0.0861	86	86	100	Pass
0.0870	80	80	100	Pass
0.0880	76	76	100	Pass
0.0889	71	71	100	Pass
0.0898	68	68	100	Pass
0.0907	63	63	100	Pass

0.0916	60	60	100	Pass
0.0925	56	56	100	Pass
0.0935	55	55	100	Pass
0.0944	50	50	100	Pass
0.0953	48	48	100	Pass
0.0962	47	47	100	Pass
0.0971	45	45	100	Pass
0.0981	39	39	100	Pass
0.0990	35	35	100	Pass
0.0999	34	34	100	Pass
0.1008	34	34	100	Pass
0.1017	33	33	100	Pass
0.1026	32	32	100	Pass
0.1036	30	30	100	Pass
0.1045	27	27	100	Pass
0.1054	26	26	100	Pass
0.1063	24	24	100	Pass
0.1072	24	24	100	Pass
0.1081	24	24	100	Pass
0.1091	23	23	100	Pass
0.1100	18	18	100	Pass
0.1109	17	17	100	Pass
0.1118	15	15	100	Pass
0.1127	14	14	100	Pass
0.1137	13	13	100	Pass
0.1146	12	12	100	Pass
0.1155	12	12	100	Pass
0.1164	12	12	100	Pass
0.1173	11	11	100	Pass
0.1182	9	9	100	Pass
0.1192	7	7	100	Pass
0.1201	7	7	100	Pass
0.1210	6	6	100	Pass
0.1219	6	6	100	Pass
0.1228	6	6	100	Pass
0.1237	5	5	100	Pass
0.1247	3	3	100	Pass
0.1256	3	3	100	Pass
0.1265	3	3	100	Pass
0.1274	3	3	100	Pass
0.1283	2	2	100	Pass
0.1293	2	2	100	Pass
0.1302	2	2	100	Pass
0.1311	2	2	100	Pass
0.1320	1	1	100	Pass
0.1329	1	1	100	Pass
0.1338	1	1	100	Pass
0.1348	1	1	100	Pass
0.1357	1	1	100	Pass
0.1366	1	1	100	Pass
0.1375	1	1	100	Pass
0.1384	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #6
On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
Volumn	Treatment?	Needs	Through	(ac-ft.)	Infiltration
Infiltrated	Water Quality	Treatment	Facility		Credit
	Treated	(ac-ft)	(ac-ft)		

Stream Protection Duration

Predeveloped Landuse Totals for POC #7

Total Pervious Area:5.86

Total Impervious Area:3.2

Mitigated Landuse Totals for POC #7

Total Pervious Area:5.86

Total Impervious Area:3.2

Flow Frequency Return Periods for Predeveloped. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	4.068255

5 year	5.020091
10 year	5.54949
25 year	6.132331
50 year	6.516421
100 year	6.865471

Flow Frequency Return Periods for Mitigated. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	4.068255
5 year	5.020091
10 year	5.54949
25 year	6.132331
50 year	6.516421
100 year	6.865471

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #7

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	4.375	4.375
1957	5.100	5.100
1958	3.596	3.596
1959	4.979	4.979
1960	5.138	5.138
1961	4.129	4.129
1962	6.101	6.101
1963	5.874	5.874
1964	4.554	4.554
1965	4.606	4.606
1966	4.365	4.365
1967	3.131	3.131
1968	3.872	3.872
1969	3.978	3.978
1970	3.432	3.432
1971	5.309	5.309
1972	5.915	5.915
1973	4.421	4.421
1974	4.772	4.772
1975	4.536	4.536
1976	5.086	5.086
1977	3.747	3.747
1978	5.800	5.800
1979	4.692	4.692
1980	4.340	4.340
1981	4.315	4.315
1982	5.128	5.128
1983	3.957	3.957
1984	4.443	4.443
1985	2.617	2.617
1986	4.642	4.642
1987	3.313	3.313
1988	3.349	3.349
1989	3.297	3.297
1990	4.645	4.645
1991	3.412	3.412
1992	3.028	3.028
1993	2.472	2.472

1994	4.506	4.506
1995	2.506	2.506
1996	2.705	2.705
1997	4.276	4.276
1998	2.814	2.814
1999	3.657	3.657
2000	2.798	2.798
2001	1.992	1.992
2002	3.583	3.583
2003	6.322	6.322
2004	4.831	4.831
2005	3.879	3.879
2006	4.370	4.370
2007	5.237	5.237
2008	2.690	2.690
2009	2.485	2.485

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	6.3216	6.3216
2	6.1015	6.1015
3	5.9151	5.9151
4	5.8745	5.8745
5	5.8004	5.8004
6	5.3087	5.3087
7	5.2372	5.2372
8	5.1383	5.1383
9	5.1280	5.1280
10	5.1000	5.1000
11	5.0856	5.0856
12	4.9787	4.9787
13	4.8308	4.8308
14	4.7716	4.7716
15	4.6925	4.6925
16	4.6451	4.6451
17	4.6418	4.6418
18	4.6058	4.6058
19	4.5545	4.5545
20	4.5357	4.5357
21	4.5058	4.5058
22	4.4434	4.4434
23	4.4206	4.4206
24	4.3747	4.3747
25	4.3695	4.3695
26	4.3649	4.3649
27	4.3404	4.3404
28	4.3146	4.3146
29	4.2756	4.2756
30	4.1287	4.1287
31	3.9776	3.9776
32	3.9571	3.9571
33	3.8788	3.8788
34	3.8718	3.8718
35	3.7474	3.7474
36	3.6571	3.6571

37	3.5957	3.5957
38	3.5834	3.5834
39	3.4321	3.4321
40	3.4121	3.4121
41	3.3491	3.3491
42	3.3132	3.3132
43	3.2975	3.2975
44	3.1312	3.1312
45	3.0275	3.0275
46	2.8145	2.8145
47	2.7975	2.7975
48	2.7051	2.7051
49	2.6896	2.6896
50	2.6172	2.6172
51	2.5062	2.5062
52	2.4849	2.4849
53	2.4723	2.4723
54	1.9923	1.9923

Stream Protection Duration

POC #7

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.0341	1649	1649	100	Pass
2.0794	1521	1521	100	Pass
2.1247	1412	1412	100	Pass
2.1700	1301	1301	100	Pass
2.2152	1233	1233	100	Pass
2.2605	1135	1135	100	Pass
2.3058	1056	1056	100	Pass
2.3511	1005	1005	100	Pass
2.3963	947	947	100	Pass
2.4416	868	868	100	Pass
2.4869	808	808	100	Pass
2.5322	742	742	100	Pass
2.5774	693	693	100	Pass
2.6227	651	651	100	Pass
2.6680	612	612	100	Pass
2.7133	566	566	100	Pass
2.7585	534	534	100	Pass
2.8038	499	499	100	Pass
2.8491	466	466	100	Pass
2.8944	434	434	100	Pass
2.9396	400	400	100	Pass
2.9849	376	376	100	Pass
3.0302	350	350	100	Pass
3.0755	322	322	100	Pass
3.1207	304	304	100	Pass
3.1660	287	287	100	Pass
3.2113	271	271	100	Pass
3.2566	258	258	100	Pass
3.3018	238	238	100	Pass
3.3471	219	219	100	Pass

3.3924	205	205	100	Pass
3.4377	192	192	100	Pass
3.4829	179	179	100	Pass
3.5282	167	167	100	Pass
3.5735	154	154	100	Pass
3.6188	145	145	100	Pass
3.6641	136	136	100	Pass
3.7093	132	132	100	Pass
3.7546	126	126	100	Pass
3.7999	123	123	100	Pass
3.8452	118	118	100	Pass
3.8904	110	110	100	Pass
3.9357	107	107	100	Pass
3.9810	104	104	100	Pass
4.0263	94	94	100	Pass
4.0715	86	86	100	Pass
4.1168	82	82	100	Pass
4.1621	78	78	100	Pass
4.2074	74	74	100	Pass
4.2526	71	71	100	Pass
4.2979	62	62	100	Pass
4.3432	58	58	100	Pass
4.3885	51	51	100	Pass
4.4337	46	46	100	Pass
4.4790	44	44	100	Pass
4.5243	41	41	100	Pass
4.5696	37	37	100	Pass
4.6148	35	35	100	Pass
4.6601	31	31	100	Pass
4.7054	29	29	100	Pass
4.7507	27	27	100	Pass
4.7959	24	24	100	Pass
4.8412	22	22	100	Pass
4.8865	21	21	100	Pass
4.9318	21	21	100	Pass
4.9770	21	21	100	Pass
5.0223	19	19	100	Pass
5.0676	18	18	100	Pass
5.1129	14	14	100	Pass
5.1582	12	12	100	Pass
5.2034	11	11	100	Pass
5.2487	10	10	100	Pass
5.2940	10	10	100	Pass
5.3393	9	9	100	Pass
5.3845	9	9	100	Pass
5.4298	9	9	100	Pass
5.4751	8	8	100	Pass
5.5204	8	8	100	Pass
5.5656	8	8	100	Pass
5.6109	7	7	100	Pass
5.6562	7	7	100	Pass
5.7015	6	6	100	Pass
5.7467	6	6	100	Pass
5.7920	6	6	100	Pass
5.8373	5	5	100	Pass
5.8826	4	4	100	Pass
5.9278	3	3	100	Pass

5.9731	3	3	100	Pass
6.0184	3	3	100	Pass
6.0637	3	3	100	Pass
6.1089	2	2	100	Pass
6.1542	2	2	100	Pass
6.1995	2	2	100	Pass
6.2448	2	2	100	Pass
6.2900	2	2	100	Pass
6.3353	0	0	100	Pass
6.3806	0	0	0	Pass
6.4259	0	0	0	Pass
6.4711	0	0	0	Pass
6.5164	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #7

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative	
Percent	Water Quality	Percent	Comment			
		Treatment?	Needs	Through	Volume	
Volumn	Water Quality	Water Quality	Treatment	Facility	(ac-ft.)	Infiltration
Infiltrated	Treated		(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #8

Total Pervious Area:0.2

Total Impervious Area:2.11

Mitigated Landuse Totals for POC #8

Total Pervious Area:0.2

Total Impervious Area:2.11

Flow Frequency Return Periods for Predeveloped. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.595122
5 year	1.88646
10 year	2.047595
25 year	2.225198
50 year	2.3427
100 year	2.449999

Flow Frequency Return Periods for Mitigated. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.595122
5 year	1.88646
10 year	2.047595
25 year	2.225198
50 year	2.3427
100 year	2.449999

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #8

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.651	1.651
1957	2.087	2.087
1958	1.623	1.623
1959	1.614	1.614
1960	1.668	1.668
1961	1.373	1.373
1962	2.176	2.176
1963	2.019	2.019
1964	1.767	1.767
1965	1.728	1.728
1966	1.679	1.679
1967	1.117	1.117
1968	1.625	1.625
1969	1.537	1.537
1970	1.507	1.507
1971	2.201	2.201
1972	1.894	1.894
1973	1.783	1.783
1974	1.684	1.684
1975	1.526	1.526
1976	1.823	1.823

1977	1.358	1.358
1978	2.334	2.334
1979	1.492	1.492
1980	1.360	1.360
1981	1.738	1.738
1982	2.007	2.007
1983	1.578	1.578
1984	1.468	1.468
1985	1.134	1.134
1986	1.754	1.754
1987	1.236	1.236
1988	1.802	1.802
1989	1.553	1.553
1990	1.983	1.983
1991	1.355	1.355
1992	1.057	1.057
1993	1.178	1.178
1994	1.513	1.513
1995	1.479	1.479
1996	1.783	1.783
1997	1.684	1.684
1998	1.107	1.107
1999	1.376	1.376
2000	1.260	1.260
2001	1.241	1.241
2002	1.963	1.963
2003	2.131	2.131
2004	1.964	1.964
2005	1.571	1.571
2006	1.610	1.610
2007	1.886	1.886
2008	1.022	1.022
2009	0.971	0.971

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	2.3338	2.3338
2	2.2011	2.2011
3	2.1760	2.1760
4	2.1310	2.1310
5	2.0869	2.0869
6	2.0193	2.0193
7	2.0069	2.0069
8	1.9833	1.9833
9	1.9642	1.9642
10	1.9630	1.9630
11	1.8941	1.8941
12	1.8862	1.8862
13	1.8225	1.8225
14	1.8018	1.8018
15	1.7830	1.7830
16	1.7828	1.7828
17	1.7670	1.7670
18	1.7540	1.7540
19	1.7382	1.7382

20	1.7284	1.7284
21	1.6844	1.6844
22	1.6841	1.6841
23	1.6791	1.6791
24	1.6678	1.6678
25	1.6512	1.6512
26	1.6249	1.6249
27	1.6232	1.6232
28	1.6139	1.6139
29	1.6101	1.6101
30	1.5780	1.5780
31	1.5707	1.5707
32	1.5534	1.5534
33	1.5370	1.5370
34	1.5263	1.5263
35	1.5131	1.5131
36	1.5066	1.5066
37	1.4920	1.4920
38	1.4793	1.4793
39	1.4679	1.4679
40	1.3764	1.3764
41	1.3727	1.3727
42	1.3604	1.3604
43	1.3585	1.3585
44	1.3551	1.3551
45	1.2603	1.2603
46	1.2407	1.2407
47	1.2360	1.2360
48	1.1783	1.1783
49	1.1335	1.1335
50	1.1170	1.1170
51	1.1066	1.1066
52	1.0573	1.0573
53	1.0223	1.0223
54	0.9715	0.9715

Stream Protection Duration

POC #8

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.7976	1250	1250	100	Pass
0.8132	1169	1169	100	Pass
0.8288	1084	1084	100	Pass
0.8444	1014	1014	100	Pass
0.8600	934	934	100	Pass
0.8756	873	873	100	Pass
0.8912	805	805	100	Pass
0.9068	755	755	100	Pass
0.9224	685	685	100	Pass
0.9380	635	635	100	Pass
0.9536	591	591	100	Pass
0.9692	550	550	100	Pass
0.9849	511	511	100	Pass

1.0005	480	480	100	Pass
1.0161	446	446	100	Pass
1.0317	410	410	100	Pass
1.0473	381	381	100	Pass
1.0629	358	358	100	Pass
1.0785	337	337	100	Pass
1.0941	311	311	100	Pass
1.1097	293	293	100	Pass
1.1253	273	273	100	Pass
1.1409	255	255	100	Pass
1.1565	244	244	100	Pass
1.1721	232	232	100	Pass
1.1877	225	225	100	Pass
1.2034	201	201	100	Pass
1.2190	195	195	100	Pass
1.2346	186	186	100	Pass
1.2502	177	177	100	Pass
1.2658	165	165	100	Pass
1.2814	154	154	100	Pass
1.2970	148	148	100	Pass
1.3126	144	144	100	Pass
1.3282	137	137	100	Pass
1.3438	125	125	100	Pass
1.3594	117	117	100	Pass
1.3750	107	107	100	Pass
1.3906	104	104	100	Pass
1.4063	99	99	100	Pass
1.4219	94	94	100	Pass
1.4375	87	87	100	Pass
1.4531	84	84	100	Pass
1.4687	79	79	100	Pass
1.4843	75	75	100	Pass
1.4999	73	73	100	Pass
1.5155	66	66	100	Pass
1.5311	64	64	100	Pass
1.5467	61	61	100	Pass
1.5623	57	57	100	Pass
1.5779	55	55	100	Pass
1.5935	50	50	100	Pass
1.6091	50	50	100	Pass
1.6248	43	43	100	Pass
1.6404	41	41	100	Pass
1.6560	40	40	100	Pass
1.6716	38	38	100	Pass
1.6872	34	34	100	Pass
1.7028	33	33	100	Pass
1.7184	32	32	100	Pass
1.7340	31	31	100	Pass
1.7496	29	29	100	Pass
1.7652	26	26	100	Pass
1.7808	25	25	100	Pass
1.7964	22	22	100	Pass
1.8120	21	21	100	Pass
1.8277	18	18	100	Pass
1.8433	18	18	100	Pass
1.8589	18	18	100	Pass
1.8745	17	17	100	Pass

1.8901	16	16	100	Pass
1.9057	14	14	100	Pass
1.9213	12	12	100	Pass
1.9369	12	12	100	Pass
1.9525	12	12	100	Pass
1.9681	10	10	100	Pass
1.9837	10	10	100	Pass
1.9993	9	9	100	Pass
2.0149	8	8	100	Pass
2.0306	7	7	100	Pass
2.0462	6	6	100	Pass
2.0618	6	6	100	Pass
2.0774	5	5	100	Pass
2.0930	4	4	100	Pass
2.1086	4	4	100	Pass
2.1242	4	4	100	Pass
2.1398	3	3	100	Pass
2.1554	3	3	100	Pass
2.1710	3	3	100	Pass
2.1866	2	2	100	Pass
2.2022	1	1	100	Pass
2.2178	1	1	100	Pass
2.2334	1	1	100	Pass
2.2491	1	1	100	Pass
2.2647	1	1	100	Pass
2.2803	1	1	100	Pass
2.2959	1	1	100	Pass
2.3115	1	1	100	Pass
2.3271	1	1	100	Pass
2.3427	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #8

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative	
Percent	Water Quality	Percent	Comment	Volumn	Volumn	
		Treatment?	Needs	Through		
Volumn		Water Quality	Treatment	Facility	(ac-ft.)	Infiltration
Infiltrated		Treated	(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #9
Total Pervious Area:0.88
Total Impervious Area:4.38

Mitigated Landuse Totals for POC #9
Total Pervious Area:0.88
Total Impervious Area:4.38

Flow Frequency Return Periods for Predeveloped. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	3.432482
5 year	4.075295
10 year	4.431848
25 year	4.825597
50 year	5.08651
100 year	5.325031

Flow Frequency Return Periods for Mitigated. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	3.432482
5 year	4.075295
10 year	4.431848
25 year	4.825597
50 year	5.08651
100 year	5.325031

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #9

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	3.579	3.579
1957	4.494	4.494
1958	3.462	3.462

1959	3.562	3.562
1960	3.680	3.680
1961	2.877	2.877
1962	4.751	4.751
1963	4.427	4.427
1964	3.825	3.825
1965	3.725	3.725
1966	3.638	3.638
1967	2.439	2.439
1968	3.491	3.491
1969	3.328	3.328
1970	3.223	3.223
1971	4.734	4.734
1972	4.186	4.186
1973	3.845	3.845
1974	3.681	3.681
1975	3.354	3.354
1976	3.935	3.935
1977	2.961	2.961
1978	5.034	5.034
1979	3.300	3.300
1980	2.939	2.939
1981	3.749	3.749
1982	4.340	4.340
1983	3.406	3.406
1984	3.233	3.233
1985	2.397	2.397
1986	3.797	3.797
1987	2.686	2.686
1988	3.792	3.792
1989	3.303	3.303
1990	4.254	4.254
1991	2.813	2.813
1992	2.234	2.234
1993	2.447	2.447
1994	3.326	3.326
1995	3.071	3.071
1996	3.701	3.701
1997	3.505	3.505
1998	2.392	2.392
1999	2.967	2.967
2000	2.672	2.672
2001	2.585	2.585
2002	4.080	4.080
2003	4.681	4.681
2004	4.232	4.232
2005	3.386	3.386
2006	3.503	3.503
2007	4.114	4.114
2008	2.197	2.197
2009	2.081	2.081

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #9

Rank	Predeveloped	Mitigated
1	5.0337	5.0337

2	4.7514	4.7514
3	4.7339	4.7339
4	4.6810	4.6810
5	4.4940	4.4940
6	4.4269	4.4269
7	4.3404	4.3404
8	4.2539	4.2539
9	4.2322	4.2322
10	4.1864	4.1864
11	4.1142	4.1142
12	4.0797	4.0797
13	3.9352	3.9352
14	3.8448	3.8448
15	3.8249	3.8249
16	3.7970	3.7970
17	3.7917	3.7917
18	3.7487	3.7487
19	3.7248	3.7248
20	3.7009	3.7009
21	3.6813	3.6813
22	3.6803	3.6803
23	3.6376	3.6376
24	3.5788	3.5788
25	3.5620	3.5620
26	3.5053	3.5053
27	3.5035	3.5035
28	3.4907	3.4907
29	3.4623	3.4623
30	3.4064	3.4064
31	3.3857	3.3857
32	3.3541	3.3541
33	3.3282	3.3282
34	3.3259	3.3259
35	3.3034	3.3034
36	3.3003	3.3003
37	3.2326	3.2326
38	3.2234	3.2234
39	3.0709	3.0709
40	2.9668	2.9668
41	2.9611	2.9611
42	2.9386	2.9386
43	2.8772	2.8772
44	2.8131	2.8131
45	2.6861	2.6861
46	2.6722	2.6722
47	2.5847	2.5847
48	2.4473	2.4473
49	2.4390	2.4390
50	2.3969	2.3969
51	2.3922	2.3922
52	2.2340	2.2340
53	2.1966	2.1966
54	2.0815	2.0815

Stream Protection Duration
POC #9

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.7162	1294	1294	100	Pass
1.7503	1205	1205	100	Pass
1.7843	1109	1109	100	Pass
1.8184	1009	1009	100	Pass
1.8524	949	949	100	Pass
1.8865	881	881	100	Pass
1.9205	815	815	100	Pass
1.9545	767	767	100	Pass
1.9886	710	710	100	Pass
2.0226	651	651	100	Pass
2.0567	603	603	100	Pass
2.0907	564	564	100	Pass
2.1248	534	534	100	Pass
2.1588	497	497	100	Pass
2.1928	460	460	100	Pass
2.2269	418	418	100	Pass
2.2609	394	394	100	Pass
2.2950	370	370	100	Pass
2.3290	350	350	100	Pass
2.3631	329	329	100	Pass
2.3971	297	297	100	Pass
2.4311	277	277	100	Pass
2.4652	258	258	100	Pass
2.4992	247	247	100	Pass
2.5333	233	233	100	Pass
2.5673	223	223	100	Pass
2.6014	204	204	100	Pass
2.6354	197	197	100	Pass
2.6694	182	182	100	Pass
2.7035	169	169	100	Pass
2.7375	162	162	100	Pass
2.7716	159	159	100	Pass
2.8056	151	151	100	Pass
2.8397	143	143	100	Pass
2.8737	135	135	100	Pass
2.9078	128	128	100	Pass
2.9418	115	115	100	Pass
2.9758	108	108	100	Pass
3.0099	103	103	100	Pass
3.0439	97	97	100	Pass
3.0780	89	89	100	Pass
3.1120	88	88	100	Pass
3.1461	84	84	100	Pass
3.1801	82	82	100	Pass
3.2141	77	77	100	Pass
3.2482	74	74	100	Pass
3.2822	70	70	100	Pass
3.3163	66	66	100	Pass
3.3503	62	62	100	Pass
3.3844	56	56	100	Pass
3.4184	52	52	100	Pass
3.4524	51	51	100	Pass

3.4865	48	48	100	Pass
3.5205	42	42	100	Pass
3.5546	41	41	100	Pass
3.5886	38	38	100	Pass
3.6227	37	37	100	Pass
3.6567	36	36	100	Pass
3.6907	33	33	100	Pass
3.7248	32	32	100	Pass
3.7588	28	28	100	Pass
3.7929	26	26	100	Pass
3.8269	24	24	100	Pass
3.8610	23	23	100	Pass
3.8950	20	20	100	Pass
3.9290	19	19	100	Pass
3.9631	18	18	100	Pass
3.9971	18	18	100	Pass
4.0312	17	17	100	Pass
4.0652	17	17	100	Pass
4.0993	15	15	100	Pass
4.1333	12	12	100	Pass
4.1673	12	12	100	Pass
4.2014	11	11	100	Pass
4.2354	10	10	100	Pass
4.2695	9	9	100	Pass
4.3035	9	9	100	Pass
4.3376	9	9	100	Pass
4.3716	8	8	100	Pass
4.4056	8	8	100	Pass
4.4397	7	7	100	Pass
4.4737	6	6	100	Pass
4.5078	4	4	100	Pass
4.5418	4	4	100	Pass
4.5759	4	4	100	Pass
4.6099	4	4	100	Pass
4.6439	4	4	100	Pass
4.6780	4	4	100	Pass
4.7120	3	3	100	Pass
4.7461	2	2	100	Pass
4.7801	1	1	100	Pass
4.8142	1	1	100	Pass
4.8482	1	1	100	Pass
4.8823	1	1	100	Pass
4.9163	1	1	100	Pass
4.9503	1	1	100	Pass
4.9844	1	1	100	Pass
5.0184	1	1	100	Pass
5.0525	0	0	100	Pass
5.0865	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #9
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
Volumn	Treatment?	Needs	Through	(ac-ft.)	Infiltration
Infiltrated	Water Quality	Treatment	Facility		
	Treated	(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #10

Total Pervious Area:0.78

Total Impervious Area:3.13

Mitigated Landuse Totals for POC #10

Total Pervious Area:0.78

Total Impervious Area:3.13

Flow Frequency Return Periods for Predeveloped. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.492388
5 year	2.964989
10 year	3.227509
25 year	3.517697

50 year	3.710138
100 year	3.886164

Flow Frequency Return Periods for Mitigated. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.492388
5 year	2.964989
10 year	3.227509
25 year	3.517697
50 year	3.710138
100 year	3.886164

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #10

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	2.607	2.607
1957	3.264	3.264
1958	2.504	2.504
1959	2.614	2.614
1960	2.701	2.701
1961	2.065	2.065
1962	3.472	3.472
1963	3.240	3.240
1964	2.784	2.784
1965	2.706	2.706
1966	2.649	2.649
1967	1.782	1.782
1968	2.533	2.533
1969	2.423	2.423
1970	2.335	2.335
1971	3.436	3.436
1972	3.074	3.074
1973	2.794	2.794
1974	2.691	2.691
1975	2.457	2.457
1976	2.862	2.862
1977	2.162	2.162
1978	3.659	3.659
1979	2.425	2.425
1980	2.143	2.143
1981	2.725	2.725
1982	3.158	3.158
1983	2.477	2.477
1984	2.370	2.370
1985	1.727	1.727
1986	2.764	2.764
1987	1.959	1.959
1988	2.726	2.726
1989	2.386	2.386
1990	3.084	3.084
1991	2.010	2.010
1992	1.609	1.609
1993	1.749	1.749
1994	2.437	2.437
1995	2.195	2.195
1996	2.645	2.645

1997	2.508	2.508
1998	1.740	1.740
1999	2.156	2.156
2000	1.934	1.934
2001	1.850	1.850
2002	2.917	2.917
2003	3.429	3.429
2004	3.075	3.075
2005	2.460	2.460
2006	2.556	2.556
2007	3.005	3.005
2008	1.594	1.594
2009	1.509	1.509

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #10

Rank	Predeveloped	Mitigated
1	3.6587	3.6587
2	3.4716	3.4716
3	3.4365	3.4365
4	3.4288	3.4288
5	3.2641	3.2641
6	3.2400	3.2400
7	3.1584	3.1584
8	3.0844	3.0844
9	3.0748	3.0748
10	3.0744	3.0744
11	3.0047	3.0047
12	2.9170	2.9170
13	2.8616	2.8616
14	2.7943	2.7943
15	2.7843	2.7843
16	2.7641	2.7641
17	2.7264	2.7264
18	2.7245	2.7245
19	2.7063	2.7063
20	2.7009	2.7009
21	2.6910	2.6910
22	2.6489	2.6489
23	2.6447	2.6447
24	2.6143	2.6143
25	2.6066	2.6066
26	2.5560	2.5560
27	2.5328	2.5328
28	2.5078	2.5078
29	2.5044	2.5044
30	2.4768	2.4768
31	2.4602	2.4602
32	2.4573	2.4573
33	2.4369	2.4369
34	2.4246	2.4246
35	2.4232	2.4232
36	2.3863	2.3863
37	2.3703	2.3703
38	2.3347	2.3347
39	2.1945	2.1945

40	2.1619	2.1619
41	2.1558	2.1558
42	2.1426	2.1426
43	2.0652	2.0652
44	2.0103	2.0103
45	1.9586	1.9586
46	1.9341	1.9341
47	1.8501	1.8501
48	1.7820	1.7820
49	1.7493	1.7493
50	1.7404	1.7404
51	1.7271	1.7271
52	1.6092	1.6092
53	1.5939	1.5939
54	1.5085	1.5085

Stream Protection Duration

POC #10

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

1.2462	1307	1307	100	Pass
1.2711	1215	1215	100	Pass
1.2960	1135	1135	100	Pass
1.3209	1029	1029	100	Pass
1.3457	952	952	100	Pass
1.3706	886	886	100	Pass
1.3955	830	830	100	Pass
1.4204	774	774	100	Pass
1.4453	714	714	100	Pass
1.4702	659	659	100	Pass
1.4951	615	615	100	Pass
1.5200	571	571	100	Pass
1.5449	538	538	100	Pass
1.5697	501	501	100	Pass
1.5946	472	472	100	Pass
1.6195	423	423	100	Pass
1.6444	391	391	100	Pass
1.6693	376	376	100	Pass
1.6942	352	352	100	Pass
1.7191	333	333	100	Pass
1.7440	307	307	100	Pass
1.7688	286	286	100	Pass
1.7937	263	263	100	Pass
1.8186	244	244	100	Pass
1.8435	235	235	100	Pass
1.8684	221	221	100	Pass
1.8933	210	210	100	Pass
1.9182	194	194	100	Pass
1.9431	182	182	100	Pass
1.9680	172	172	100	Pass
1.9928	165	165	100	Pass
2.0177	159	159	100	Pass
2.0426	152	152	100	Pass

2.0675	143	143	100	Pass
2.0924	132	132	100	Pass
2.1173	128	128	100	Pass
2.1422	117	117	100	Pass
2.1671	108	108	100	Pass
2.1920	105	105	100	Pass
2.2168	100	100	100	Pass
2.2417	92	92	100	Pass
2.2666	87	87	100	Pass
2.2915	84	84	100	Pass
2.3164	83	83	100	Pass
2.3413	77	77	100	Pass
2.3662	73	73	100	Pass
2.3911	69	69	100	Pass
2.4159	68	68	100	Pass
2.4408	62	62	100	Pass
2.4657	55	55	100	Pass
2.4906	52	52	100	Pass
2.5155	48	48	100	Pass
2.5404	45	45	100	Pass
2.5653	42	42	100	Pass
2.5902	41	41	100	Pass
2.6151	39	39	100	Pass
2.6399	37	37	100	Pass
2.6648	35	35	100	Pass
2.6897	33	33	100	Pass
2.7146	29	29	100	Pass
2.7395	27	27	100	Pass
2.7644	27	27	100	Pass
2.7893	24	24	100	Pass
2.8142	21	21	100	Pass
2.8390	21	21	100	Pass
2.8639	19	19	100	Pass
2.8888	18	18	100	Pass
2.9137	17	17	100	Pass
2.9386	16	16	100	Pass
2.9635	16	16	100	Pass
2.9884	15	15	100	Pass
3.0133	12	12	100	Pass
3.0382	12	12	100	Pass
3.0630	12	12	100	Pass
3.0879	9	9	100	Pass
3.1128	9	9	100	Pass
3.1377	9	9	100	Pass
3.1626	8	8	100	Pass
3.1875	8	8	100	Pass
3.2124	8	8	100	Pass
3.2373	8	8	100	Pass
3.2621	6	6	100	Pass
3.2870	5	5	100	Pass
3.3119	4	4	100	Pass
3.3368	4	4	100	Pass
3.3617	4	4	100	Pass
3.3866	4	4	100	Pass
3.4115	4	4	100	Pass
3.4364	3	3	100	Pass
3.4613	2	2	100	Pass

3.4861	1	1	100	Pass
3.5110	1	1	100	Pass
3.5359	1	1	100	Pass
3.5608	1	1	100	Pass
3.5857	1	1	100	Pass
3.6106	1	1	100	Pass
3.6355	1	1	100	Pass
3.6604	0	0	100	Pass
3.6852	0	0	0	Pass
3.7101	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #10

On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative	
Percent	Water Quality	Percent	Comment	Volumn	Volumn	
		Treatment?	Needs	Through		
Volumn		Water Quality	Treatment	Facility	(ac-ft.)	Infiltration
Infiltrated		Treated	(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #11

Total Pervious Area:0.09

Total Impervious Area:1.03

Mitigated Landuse Totals for POC #11

Total Pervious Area:0.09

Total Impervious Area:1.03

Flow Frequency Return Periods for Predeveloped. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.776684
5 year	0.918299
10 year	0.996611
25 year	1.082914
50 year	1.140007
100 year	1.192138

Flow Frequency Return Periods for Mitigated. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.776684
5 year	0.918299
10 year	0.996611
25 year	1.082914
50 year	1.140007
100 year	1.192138

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #11

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.804	0.804
1957	1.016	1.016
1958	0.791	0.791
1959	0.784	0.784
1960	0.811	0.811
1961	0.670	0.670
1962	1.058	1.058
1963	0.982	0.982
1964	0.860	0.860
1965	0.841	0.841
1966	0.817	0.817
1967	0.543	0.543
1968	0.791	0.791
1969	0.748	0.748
1970	0.734	0.734
1971	1.072	1.072
1972	0.920	0.920
1973	0.868	0.868
1974	0.819	0.819
1975	0.742	0.742
1976	0.887	0.887
1977	0.661	0.661
1978	1.136	1.136

1979	0.725	0.725
1980	0.662	0.662
1981	0.846	0.846
1982	0.977	0.977
1983	0.768	0.768
1984	0.714	0.714
1985	0.553	0.553
1986	0.854	0.854
1987	0.601	0.601
1988	0.879	0.879
1989	0.757	0.757
1990	0.966	0.966
1991	0.661	0.661
1992	0.515	0.515
1993	0.575	0.575
1994	0.736	0.736
1995	0.722	0.722
1996	0.870	0.870
1997	0.822	0.822
1998	0.539	0.539
1999	0.670	0.670
2000	0.615	0.615
2001	0.605	0.605
2002	0.958	0.958
2003	1.036	1.036
2004	0.956	0.956
2005	0.765	0.765
2006	0.783	0.783
2007	0.917	0.917
2008	0.498	0.498
2009	0.473	0.473

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	1.1362	1.1362
2	1.0717	1.0717
3	1.0584	1.0584
4	1.0360	1.0360
5	1.0161	1.0161
6	0.9819	0.9819
7	0.9768	0.9768
8	0.9659	0.9659
9	0.9582	0.9582
10	0.9563	0.9563
11	0.9204	0.9204
12	0.9175	0.9175
13	0.8872	0.8872
14	0.8787	0.8787
15	0.8703	0.8703
16	0.8680	0.8680
17	0.8600	0.8600
18	0.8536	0.8536
19	0.8462	0.8462
20	0.8415	0.8415
21	0.8221	0.8221

22	0.8190	0.8190
23	0.8171	0.8171
24	0.8105	0.8105
25	0.8036	0.8036
26	0.7913	0.7913
27	0.7908	0.7908
28	0.7844	0.7844
29	0.7833	0.7833
30	0.7681	0.7681
31	0.7647	0.7647
32	0.7570	0.7570
33	0.7480	0.7480
34	0.7420	0.7420
35	0.7356	0.7356
36	0.7339	0.7339
37	0.7250	0.7250
38	0.7221	0.7221
39	0.7135	0.7135
40	0.6701	0.6701
41	0.6696	0.6696
42	0.6622	0.6622
43	0.6615	0.6615
44	0.6608	0.6608
45	0.6152	0.6152
46	0.6055	0.6055
47	0.6014	0.6014
48	0.5752	0.5752
49	0.5526	0.5526
50	0.5433	0.5433
51	0.5386	0.5386
52	0.5155	0.5155
53	0.4978	0.4978
54	0.4732	0.4732

Stream Protection Duration

POC #11

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3883	1243	1243	100	Pass
0.3959	1175	1175	100	Pass
0.4035	1085	1085	100	Pass
0.4111	1012	1012	100	Pass
0.4187	938	938	100	Pass
0.4263	873	873	100	Pass
0.4339	812	812	100	Pass
0.4415	753	753	100	Pass
0.4491	683	683	100	Pass
0.4567	637	637	100	Pass
0.4643	590	590	100	Pass
0.4719	552	552	100	Pass
0.4795	512	512	100	Pass
0.4870	477	477	100	Pass
0.4946	446	446	100	Pass

0.5022	408	408	100	Pass
0.5098	382	382	100	Pass
0.5174	358	358	100	Pass
0.5250	336	336	100	Pass
0.5326	311	311	100	Pass
0.5402	292	292	100	Pass
0.5478	273	273	100	Pass
0.5554	256	256	100	Pass
0.5630	245	245	100	Pass
0.5706	233	233	100	Pass
0.5782	222	222	100	Pass
0.5857	202	202	100	Pass
0.5933	195	195	100	Pass
0.6009	186	186	100	Pass
0.6085	177	177	100	Pass
0.6161	166	166	100	Pass
0.6237	155	155	100	Pass
0.6313	148	148	100	Pass
0.6389	144	144	100	Pass
0.6465	138	138	100	Pass
0.6541	125	125	100	Pass
0.6617	118	118	100	Pass
0.6693	108	108	100	Pass
0.6769	104	104	100	Pass
0.6845	99	99	100	Pass
0.6920	94	94	100	Pass
0.6996	87	87	100	Pass
0.7072	83	83	100	Pass
0.7148	79	79	100	Pass
0.7224	76	76	100	Pass
0.7300	73	73	100	Pass
0.7376	66	66	100	Pass
0.7452	64	64	100	Pass
0.7528	61	61	100	Pass
0.7604	57	57	100	Pass
0.7680	55	55	100	Pass
0.7756	51	51	100	Pass
0.7832	50	50	100	Pass
0.7907	45	45	100	Pass
0.7983	41	41	100	Pass
0.8059	40	40	100	Pass
0.8135	38	38	100	Pass
0.8211	35	35	100	Pass
0.8287	33	33	100	Pass
0.8363	32	32	100	Pass
0.8439	31	31	100	Pass
0.8515	29	29	100	Pass
0.8591	26	26	100	Pass
0.8667	25	25	100	Pass
0.8743	23	23	100	Pass
0.8819	21	21	100	Pass
0.8895	18	18	100	Pass
0.8970	18	18	100	Pass
0.9046	18	18	100	Pass
0.9122	17	17	100	Pass
0.9198	16	16	100	Pass
0.9274	14	14	100	Pass

0.9350	12	12	100	Pass
0.9426	12	12	100	Pass
0.9502	12	12	100	Pass
0.9578	11	11	100	Pass
0.9654	10	10	100	Pass
0.9730	9	9	100	Pass
0.9806	8	8	100	Pass
0.9882	6	6	100	Pass
0.9957	6	6	100	Pass
1.0033	6	6	100	Pass
1.0109	5	5	100	Pass
1.0185	4	4	100	Pass
1.0261	4	4	100	Pass
1.0337	4	4	100	Pass
1.0413	3	3	100	Pass
1.0489	3	3	100	Pass
1.0565	3	3	100	Pass
1.0641	2	2	100	Pass
1.0717	2	2	100	Pass
1.0793	1	1	100	Pass
1.0869	1	1	100	Pass
1.0945	1	1	100	Pass
1.1020	1	1	100	Pass
1.1096	1	1	100	Pass
1.1172	1	1	100	Pass
1.1248	1	1	100	Pass
1.1324	1	1	100	Pass
1.1400	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #11
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
		Treatment?	Needs	Through	
Volumn		Water Quality	Treatment	Facility	Infiltration
Infiltrated	Treated		(ac-ft)	(ac-ft)	Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #12

Total Pervious Area:0.07

Total Impervious Area:0.41

Mitigated Landuse Totals for POC #12

Total Pervious Area:0.07

Total Impervious Area:0.41

Flow Frequency Return Periods for Predeveloped. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.318073
5 year	0.377199
10 year	0.409967
25 year	0.446133
50 year	0.470086
100 year	0.491976

Flow Frequency Return Periods for Mitigated. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.318073
5 year	0.377199
10 year	0.409967
25 year	0.446133
50 year	0.470086
100 year	0.491976

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #12

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.331	0.331
1957	0.416	0.416
1958	0.322	0.322
1959	0.328	0.328
1960	0.339	0.339

1961	0.269	0.269
1962	0.439	0.439
1963	0.408	0.408
1964	0.354	0.354
1965	0.345	0.345
1966	0.336	0.336
1967	0.225	0.225
1968	0.324	0.324
1969	0.308	0.308
1970	0.299	0.299
1971	0.439	0.439
1972	0.385	0.385
1973	0.356	0.356
1974	0.340	0.340
1975	0.309	0.309
1976	0.364	0.364
1977	0.273	0.273
1978	0.466	0.466
1979	0.304	0.304
1980	0.272	0.272
1981	0.347	0.347
1982	0.402	0.402
1983	0.315	0.315
1984	0.298	0.298
1985	0.223	0.223
1986	0.351	0.351
1987	0.248	0.248
1988	0.354	0.354
1989	0.307	0.307
1990	0.395	0.395
1991	0.263	0.263
1992	0.208	0.208
1993	0.229	0.229
1994	0.306	0.306
1995	0.287	0.287
1996	0.346	0.346
1997	0.328	0.328
1998	0.221	0.221
1999	0.275	0.275
2000	0.248	0.248
2001	0.242	0.242
2002	0.382	0.382
2003	0.431	0.431
2004	0.392	0.392
2005	0.314	0.314
2006	0.324	0.324
2007	0.380	0.380
2008	0.204	0.204
2009	0.193	0.193

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #12

Rank	Predeveloped	Mitigated
1	0.4662	0.4662
2	0.4387	0.4387
3	0.4385	0.4385

4	0.4313	0.4313
5	0.4164	0.4164
6	0.4081	0.4081
7	0.4017	0.4017
8	0.3946	0.3946
9	0.3920	0.3920
10	0.3851	0.3851
11	0.3818	0.3818
12	0.3798	0.3798
13	0.3643	0.3643
14	0.3561	0.3561
15	0.3539	0.3539
16	0.3536	0.3536
17	0.3513	0.3513
18	0.3472	0.3472
19	0.3464	0.3464
20	0.3450	0.3450
21	0.3397	0.3397
22	0.3387	0.3387
23	0.3365	0.3365
24	0.3310	0.3310
25	0.3279	0.3279
26	0.3278	0.3278
27	0.3237	0.3237
28	0.3236	0.3236
29	0.3216	0.3216
30	0.3154	0.3154
31	0.3136	0.3136
32	0.3090	0.3090
33	0.3079	0.3079
34	0.3071	0.3071
35	0.3064	0.3064
36	0.3035	0.3035
37	0.2992	0.2992
38	0.2977	0.2977
39	0.2875	0.2875
40	0.2748	0.2748
41	0.2734	0.2734
42	0.2720	0.2720
43	0.2686	0.2686
44	0.2633	0.2633
45	0.2482	0.2482
46	0.2481	0.2481
47	0.2417	0.2417
48	0.2290	0.2290
49	0.2251	0.2251
50	0.2232	0.2232
51	0.2214	0.2214
52	0.2081	0.2081
53	0.2036	0.2036
54	0.1931	0.1931

Stream Protection Duration
POC #12
The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1590	1283	1283	100	Pass
0.1622	1204	1204	100	Pass
0.1653	1106	1106	100	Pass
0.1685	1017	1017	100	Pass
0.1716	957	957	100	Pass
0.1747	889	889	100	Pass
0.1779	830	830	100	Pass
0.1810	763	763	100	Pass
0.1842	705	705	100	Pass
0.1873	648	648	100	Pass
0.1905	605	605	100	Pass
0.1936	562	562	100	Pass
0.1967	536	536	100	Pass
0.1999	503	503	100	Pass
0.2030	455	455	100	Pass
0.2062	413	413	100	Pass
0.2093	392	392	100	Pass
0.2124	373	373	100	Pass
0.2156	349	349	100	Pass
0.2187	328	328	100	Pass
0.2219	304	304	100	Pass
0.2250	277	277	100	Pass
0.2282	257	257	100	Pass
0.2313	246	246	100	Pass
0.2344	236	236	100	Pass
0.2376	224	224	100	Pass
0.2407	208	208	100	Pass
0.2439	201	201	100	Pass
0.2470	180	180	100	Pass
0.2502	173	173	100	Pass
0.2533	164	164	100	Pass
0.2564	156	156	100	Pass
0.2596	151	151	100	Pass
0.2627	146	146	100	Pass
0.2659	136	136	100	Pass
0.2690	128	128	100	Pass
0.2721	118	118	100	Pass
0.2753	110	110	100	Pass
0.2784	105	105	100	Pass
0.2816	95	95	100	Pass
0.2847	92	92	100	Pass
0.2879	89	89	100	Pass
0.2910	84	84	100	Pass
0.2941	80	80	100	Pass
0.2973	77	77	100	Pass
0.3004	74	74	100	Pass
0.3036	70	70	100	Pass
0.3067	68	68	100	Pass
0.3098	62	62	100	Pass
0.3130	59	59	100	Pass
0.3161	52	52	100	Pass
0.3193	51	51	100	Pass
0.3224	47	47	100	Pass
0.3256	43	43	100	Pass

0.3287	41	41	100	Pass
0.3318	39	39	100	Pass
0.3350	37	37	100	Pass
0.3381	36	36	100	Pass
0.3413	33	33	100	Pass
0.3444	33	33	100	Pass
0.3476	30	30	100	Pass
0.3507	28	28	100	Pass
0.3538	26	26	100	Pass
0.3570	24	24	100	Pass
0.3601	21	21	100	Pass
0.3633	19	19	100	Pass
0.3664	18	18	100	Pass
0.3695	18	18	100	Pass
0.3727	18	18	100	Pass
0.3758	17	17	100	Pass
0.3790	17	17	100	Pass
0.3821	12	12	100	Pass
0.3853	12	12	100	Pass
0.3884	11	11	100	Pass
0.3915	11	11	100	Pass
0.3947	10	10	100	Pass
0.3978	9	9	100	Pass
0.4010	9	9	100	Pass
0.4041	8	8	100	Pass
0.4072	8	8	100	Pass
0.4104	7	7	100	Pass
0.4135	7	7	100	Pass
0.4167	5	5	100	Pass
0.4198	4	4	100	Pass
0.4230	4	4	100	Pass
0.4261	4	4	100	Pass
0.4292	4	4	100	Pass
0.4324	3	3	100	Pass
0.4355	3	3	100	Pass
0.4387	3	3	100	Pass
0.4418	1	1	100	Pass
0.4450	1	1	100	Pass
0.4481	1	1	100	Pass
0.4512	1	1	100	Pass
0.4544	1	1	100	Pass
0.4575	1	1	100	Pass
0.4607	1	1	100	Pass
0.4638	1	1	100	Pass
0.4669	1	1	100	Pass
0.4701	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #12
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique Percent	Water Quality	Used for Percent Treatment? Water Quality	Total Volumn Comment Needs Treatment (ac-ft)	Volumn Through Facility (ac-ft)	Infiltration Volumn (ac-ft.)	Cumulative Volumn Infiltration Credit
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Stream Protection Duration

Predeveloped Landuse Totals for POC #13

Total Pervious Area:2.31

Total Impervious Area:2.57

Mitigated Landuse Totals for POC #13

Total Pervious Area:2.31

Total Impervious Area:2.57

Flow Frequency Return Periods for Predeveloped. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.532568
5 year	3.062371
10 year	3.352737
25 year	3.669344
50 year	3.876388
100 year	4.063521

Flow Frequency Return Periods for Mitigated. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.532568
5 year	3.062371
10 year	3.352737
25 year	3.669344
50 year	3.876388
100 year	4.063521

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #13

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	2.683	2.683
1957	3.261	3.261
1958	2.390	2.390
1959	2.907	2.907
1960	3.002	3.002
1961	2.312	2.312
1962	3.692	3.692
1963	3.505	3.505
1964	2.849	2.849
1965	2.796	2.796
1966	2.721	2.721
1967	1.895	1.895
1968	2.503	2.503
1969	2.484	2.484
1970	2.262	2.262
1971	3.414	3.414
1972	3.438	3.438
1973	2.810	2.810
1974	2.876	2.876
1975	2.685	2.685
1976	2.949	2.949
1977	2.282	2.282
1978	3.683	3.683
1979	2.721	2.721
1980	2.432	2.432
1981	2.741	2.741
1982	3.220	3.220
1983	2.504	2.504
1984	2.612	2.612
1985	1.646	1.646
1986	2.830	2.830
1987	2.040	2.040
1988	2.424	2.424
1989	2.242	2.242
1990	3.025	3.025
1991	2.042	2.042
1992	1.772	1.772
1993	1.481	1.481
1994	2.665	2.665
1995	1.803	1.803
1996	2.172	2.172
1997	2.542	2.542
1998	1.770	1.770
1999	2.185	2.185

2000	1.859	1.859
2001	1.552	1.552
2002	2.413	2.413
2003	3.740	3.740
2004	3.081	3.081
2005	2.470	2.470
2006	2.678	2.678
2007	3.181	3.181
2008	1.582	1.582
2009	1.496	1.496

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #13

Rank	Predeveloped	Mitigated
1	3.7401	3.7401
2	3.6922	3.6922
3	3.6834	3.6834
4	3.5052	3.5052
5	3.4385	3.4385
6	3.4137	3.4137
7	3.2615	3.2615
8	3.2196	3.2196
9	3.1812	3.1812
10	3.0811	3.0811
11	3.0245	3.0245
12	3.0016	3.0016
13	2.9488	2.9488
14	2.9070	2.9070
15	2.8758	2.8758
16	2.8494	2.8494
17	2.8302	2.8302
18	2.8101	2.8101
19	2.7958	2.7958
20	2.7414	2.7414
21	2.7213	2.7213
22	2.7208	2.7208
23	2.6849	2.6849
24	2.6831	2.6831
25	2.6779	2.6779
26	2.6652	2.6652
27	2.6124	2.6124
28	2.5424	2.5424
29	2.5036	2.5036
30	2.5026	2.5026
31	2.4844	2.4844
32	2.4697	2.4697
33	2.4319	2.4319
34	2.4238	2.4238
35	2.4126	2.4126
36	2.3899	2.3899
37	2.3120	2.3120
38	2.2821	2.2821
39	2.2617	2.2617
40	2.2422	2.2422
41	2.1852	2.1852
42	2.1720	2.1720

43	2.0424	2.0424
44	2.0405	2.0405
45	1.8950	1.8950
46	1.8585	1.8585
47	1.8025	1.8025
48	1.7716	1.7716
49	1.7704	1.7704
50	1.6457	1.6457
51	1.5825	1.5825
52	1.5523	1.5523
53	1.4957	1.4957
54	1.4808	1.4808

Stream Protection Duration

POC #13

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

1.2663	1470	1470	100	Pass
1.2926	1358	1358	100	Pass
1.3190	1259	1259	100	Pass
1.3454	1164	1164	100	Pass
1.3717	1083	1083	100	Pass
1.3981	997	997	100	Pass
1.4245	939	939	100	Pass
1.4508	874	874	100	Pass
1.4772	804	804	100	Pass
1.5036	764	764	100	Pass
1.5299	717	717	100	Pass
1.5563	668	668	100	Pass
1.5827	623	623	100	Pass
1.6090	572	572	100	Pass
1.6354	542	542	100	Pass
1.6618	507	507	100	Pass
1.6881	471	471	100	Pass
1.7145	431	431	100	Pass
1.7408	401	401	100	Pass
1.7672	365	365	100	Pass
1.7936	343	343	100	Pass
1.8199	321	321	100	Pass
1.8463	308	308	100	Pass
1.8727	286	286	100	Pass
1.8990	269	269	100	Pass
1.9254	253	253	100	Pass
1.9518	233	233	100	Pass
1.9781	216	216	100	Pass
2.0045	206	206	100	Pass
2.0309	195	195	100	Pass
2.0572	186	186	100	Pass
2.0836	181	181	100	Pass
2.1100	171	171	100	Pass
2.1363	162	162	100	Pass
2.1627	154	154	100	Pass
2.1890	141	141	100	Pass

2.2154	132	132	100	Pass
2.2418	129	129	100	Pass
2.2681	118	118	100	Pass
2.2945	115	115	100	Pass
2.3209	108	108	100	Pass
2.3472	100	100	100	Pass
2.3736	91	91	100	Pass
2.4000	86	86	100	Pass
2.4263	83	83	100	Pass
2.4527	80	80	100	Pass
2.4791	75	75	100	Pass
2.5054	65	65	100	Pass
2.5318	62	62	100	Pass
2.5582	57	57	100	Pass
2.5845	56	56	100	Pass
2.6109	55	55	100	Pass
2.6372	53	53	100	Pass
2.6636	48	48	100	Pass
2.6900	43	43	100	Pass
2.7163	39	39	100	Pass
2.7427	36	36	100	Pass
2.7691	35	35	100	Pass
2.7954	32	32	100	Pass
2.8218	30	30	100	Pass
2.8482	27	27	100	Pass
2.8745	25	25	100	Pass
2.9009	22	22	100	Pass
2.9273	20	20	100	Pass
2.9536	19	19	100	Pass
2.9800	19	19	100	Pass
3.0064	18	18	100	Pass
3.0327	16	16	100	Pass
3.0591	16	16	100	Pass
3.0854	15	15	100	Pass
3.1118	15	15	100	Pass
3.1382	15	15	100	Pass
3.1645	13	13	100	Pass
3.1909	12	12	100	Pass
3.2173	12	12	100	Pass
3.2436	10	10	100	Pass
3.2700	7	7	100	Pass
3.2964	7	7	100	Pass
3.3227	7	7	100	Pass
3.3491	7	7	100	Pass
3.3755	7	7	100	Pass
3.4018	7	7	100	Pass
3.4282	6	6	100	Pass
3.4546	5	5	100	Pass
3.4809	5	5	100	Pass
3.5073	4	4	100	Pass
3.5336	4	4	100	Pass
3.5600	4	4	100	Pass
3.5864	4	4	100	Pass
3.6127	4	4	100	Pass
3.6391	4	4	100	Pass
3.6655	4	4	100	Pass
3.6918	2	2	100	Pass

3.7182	1	1	100	Pass
3.7446	0	0	100	Pass
3.7709	0	0	0	Pass
3.7973	0	0	0	Pass
3.8237	0	0	0	Pass
3.8500	0	0	0	Pass
3.8764	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #13

On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Through	Volumn
Volumn	Water Quality	Treatment?	Needs	Facility	(ac-ft.)
Infiltrated	Treated	Treatment	(ac-ft)	(ac-ft)	Infiltration
					Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #14

Total Pervious Area:0.49
Total Impervious Area:1.64

Mitigated Landuse Totals for POC #14
Total Pervious Area:0.49
Total Impervious Area:1.64

Flow Frequency Return Periods for Predeveloped. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.327478
5 year	1.58203
10 year	1.723615
25 year	1.880261
50 year	1.984216
100 year	2.079353

Flow Frequency Return Periods for Mitigated. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.327478
5 year	1.58203
10 year	1.723615
25 year	1.880261
50 year	1.984216
100 year	2.079353

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #14

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.392	1.392
1957	1.739	1.739
1958	1.328	1.328
1959	1.407	1.407
1960	1.453	1.453
1961	1.087	1.087
1962	1.860	1.860
1963	1.739	1.739
1964	1.486	1.486
1965	1.442	1.442
1966	1.415	1.415
1967	0.955	0.955
1968	1.348	1.348
1969	1.294	1.294
1970	1.240	1.240
1971	1.829	1.829
1972	1.655	1.655
1973	1.489	1.489
1974	1.442	1.442
1975	1.320	1.320
1976	1.526	1.526
1977	1.157	1.157
1978	1.950	1.950
1979	1.306	1.306
1980	1.152	1.152
1981	1.452	1.452

1982	1.685	1.685
1983	1.321	1.321
1984	1.274	1.274
1985	0.913	0.913
1986	1.476	1.476
1987	1.047	1.047
1988	1.438	1.438
1989	1.264	1.264
1990	1.640	1.640
1991	1.053	1.053
1992	0.859	0.859
1993	0.917	0.917
1994	1.309	1.309
1995	1.150	1.150
1996	1.386	1.386
1997	1.316	1.316
1998	0.929	0.929
1999	1.149	1.149
2000	1.027	1.027
2001	0.971	0.971
2002	1.529	1.529
2003	1.842	1.842
2004	1.638	1.638
2005	1.311	1.311
2006	1.367	1.367
2007	1.609	1.609
2008	0.848	0.848
2009	0.802	0.802

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #14

Rank	Predeveloped	Mitigated
1	1.9501	1.9501
2	1.8600	1.8600
3	1.8416	1.8416
4	1.8294	1.8294
5	1.7388	1.7388
6	1.7386	1.7386
7	1.6854	1.6854
8	1.6554	1.6554
9	1.6401	1.6401
10	1.6382	1.6382
11	1.6091	1.6091
12	1.5292	1.5292
13	1.5260	1.5260
14	1.4892	1.4892
15	1.4863	1.4863
16	1.4756	1.4756
17	1.4534	1.4534
18	1.4521	1.4521
19	1.4424	1.4424
20	1.4419	1.4419
21	1.4375	1.4375
22	1.4145	1.4145
23	1.4068	1.4068
24	1.3922	1.3922

25	1.3858	1.3858
26	1.3675	1.3675
27	1.3477	1.3477
28	1.3285	1.3285
29	1.3206	1.3206
30	1.3200	1.3200
31	1.3155	1.3155
32	1.3110	1.3110
33	1.3092	1.3092
34	1.3059	1.3059
35	1.2938	1.2938
36	1.2744	1.2744
37	1.2641	1.2641
38	1.2401	1.2401
39	1.1574	1.1574
40	1.1519	1.1519
41	1.1499	1.1499
42	1.1487	1.1487
43	1.0869	1.0869
44	1.0534	1.0534
45	1.0473	1.0473
46	1.0265	1.0265
47	0.9710	0.9710
48	0.9547	0.9547
49	0.9285	0.9285
50	0.9168	0.9168
51	0.9126	0.9126
52	0.8595	0.8595
53	0.8481	0.8481
54	0.8017	0.8017

Stream Protection Duration

POC #14

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.6637	1323	1323	100	Pass
0.6771	1224	1224	100	Pass
0.6904	1134	1134	100	Pass
0.7038	1039	1039	100	Pass
0.7171	957	957	100	Pass
0.7304	893	893	100	Pass
0.7438	844	844	100	Pass
0.7571	776	776	100	Pass
0.7704	723	723	100	Pass
0.7838	679	679	100	Pass
0.7971	631	631	100	Pass
0.8105	588	588	100	Pass
0.8238	540	540	100	Pass
0.8371	508	508	100	Pass
0.8505	477	477	100	Pass
0.8638	442	442	100	Pass
0.8771	397	397	100	Pass
0.8905	374	374	100	Pass

0.9038	359	359	100	Pass
0.9172	332	332	100	Pass
0.9305	310	310	100	Pass
0.9438	292	292	100	Pass
0.9572	269	269	100	Pass
0.9705	250	250	100	Pass
0.9839	233	233	100	Pass
0.9972	222	222	100	Pass
1.0105	212	212	100	Pass
1.0239	195	195	100	Pass
1.0372	184	184	100	Pass
1.0505	173	173	100	Pass
1.0639	166	166	100	Pass
1.0772	162	162	100	Pass
1.0906	149	149	100	Pass
1.1039	142	142	100	Pass
1.1172	136	136	100	Pass
1.1306	127	127	100	Pass
1.1439	117	117	100	Pass
1.1573	108	108	100	Pass
1.1706	105	105	100	Pass
1.1839	102	102	100	Pass
1.1973	96	96	100	Pass
1.2106	87	87	100	Pass
1.2239	85	85	100	Pass
1.2373	83	83	100	Pass
1.2506	78	78	100	Pass
1.2640	74	74	100	Pass
1.2773	70	70	100	Pass
1.2906	69	69	100	Pass
1.3040	65	65	100	Pass
1.3173	56	56	100	Pass
1.3306	49	49	100	Pass
1.3440	48	48	100	Pass
1.3573	45	45	100	Pass
1.3707	42	42	100	Pass
1.3840	42	42	100	Pass
1.3973	39	39	100	Pass
1.4107	38	38	100	Pass
1.4240	34	34	100	Pass
1.4374	32	32	100	Pass
1.4507	29	29	100	Pass
1.4640	27	27	100	Pass
1.4774	26	26	100	Pass
1.4907	22	22	100	Pass
1.5040	21	21	100	Pass
1.5174	21	21	100	Pass
1.5307	19	19	100	Pass
1.5441	18	18	100	Pass
1.5574	16	16	100	Pass
1.5707	16	16	100	Pass
1.5841	15	15	100	Pass
1.5974	15	15	100	Pass
1.6107	12	12	100	Pass
1.6241	12	12	100	Pass
1.6374	12	12	100	Pass
1.6508	10	10	100	Pass

1.6641	9	9	100	Pass
1.6774	9	9	100	Pass
1.6908	8	8	100	Pass
1.7041	8	8	100	Pass
1.7175	8	8	100	Pass
1.7308	7	7	100	Pass
1.7441	5	5	100	Pass
1.7575	5	5	100	Pass
1.7708	5	5	100	Pass
1.7841	4	4	100	Pass
1.7975	4	4	100	Pass
1.8108	4	4	100	Pass
1.8242	4	4	100	Pass
1.8375	3	3	100	Pass
1.8508	2	2	100	Pass
1.8642	1	1	100	Pass
1.8775	1	1	100	Pass
1.8908	1	1	100	Pass
1.9042	1	1	100	Pass
1.9175	1	1	100	Pass
1.9309	1	1	100	Pass
1.9442	1	1	100	Pass
1.9575	0	0	100	Pass
1.9709	0	0	0	Pass
1.9842	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #14
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
Volumn		Treatment?	Needs	Through	
Infiltrated	Treated	Water Quality	Treatment	Facility	(ac-ft.)
			(ac-ft)	(ac-ft)	Infiltration
					Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #15

Total Pervious Area:9.2

Total Impervious Area:7.45

Mitigated Landuse Totals for POC #15

Total Pervious Area:9.2

Total Impervious Area:7.45

Flow Frequency Return Periods for Predeveloped. POC #15

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	8.096532
5 year	9.863821
10 year	10.837685
25 year	11.903347
50 year	12.602213
100 year	13.235144

Flow Frequency Return Periods for Mitigated. POC #15

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	8.096532
5 year	9.863821
10 year	10.837685
25 year	11.903347
50 year	12.602213
100 year	13.235144

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #15

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	8.592	8.592
1957	10.326	10.326
1958	7.428	7.428
1959	9.567	9.567
1960	9.877	9.877
1961	7.751	7.751
1962	11.965	11.965
1963	11.428	11.428

1964	9.105	9.105
1965	9.048	9.048
1966	8.708	8.708
1967	6.141	6.141
1968	7.889	7.889
1969	7.944	7.944
1970	7.073	7.073
1971	10.784	10.784
1972	11.339	11.339
1973	8.919	8.919
1974	9.336	9.336
1975	8.784	8.784
1976	9.734	9.734
1977	7.376	7.376
1978	11.696	11.696
1979	8.982	8.982
1980	8.151	8.151
1981	8.703	8.703
1982	10.272	10.272
1983	7.962	7.962
1984	8.572	8.572
1985	5.146	5.146
1986	9.045	9.045
1987	6.563	6.563
1988	7.304	7.304
1989	6.924	6.924
1990	9.505	9.505
1991	6.650	6.650
1992	5.825	5.825
1993	4.809	4.809
1994	8.722	8.722
1995	5.384	5.384
1996	6.297	6.297
1997	8.301	8.301
1998	5.644	5.644
1999	7.066	7.066
2000	5.793	5.793
2001	4.550	4.550
2002	7.108	7.108
2003	12.229	12.229
2004	9.766	9.766
2005	7.834	7.834
2006	8.631	8.631
2007	10.293	10.293
2008	5.191	5.191
2009	4.858	4.858

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #15

Rank	Predeveloped	Mitigated
1	12.2287	12.2287
2	11.9652	11.9652
3	11.6963	11.6963
4	11.4281	11.4281
5	11.3385	11.3385
6	10.7837	10.7837

7	10.3264	10.3264
8	10.2926	10.2926
9	10.2722	10.2722
10	9.8767	9.8767
11	9.7659	9.7659
12	9.7345	9.7345
13	9.5673	9.5673
14	9.5053	9.5053
15	9.3358	9.3358
16	9.1046	9.1046
17	9.0483	9.0483
18	9.0451	9.0451
19	8.9819	8.9819
20	8.9193	8.9193
21	8.7839	8.7839
22	8.7223	8.7223
23	8.7080	8.7080
24	8.7030	8.7030
25	8.6315	8.6315
26	8.5920	8.5920
27	8.5721	8.5721
28	8.3014	8.3014
29	8.1509	8.1509
30	7.9621	7.9621
31	7.9437	7.9437
32	7.8887	7.8887
33	7.8336	7.8336
34	7.7509	7.7509
35	7.4282	7.4282
36	7.3755	7.3755
37	7.3041	7.3041
38	7.1082	7.1082
39	7.0731	7.0731
40	7.0661	7.0661
41	6.9241	6.9241
42	6.6497	6.6497
43	6.5632	6.5632
44	6.2967	6.2967
45	6.1408	6.1408
46	5.8250	5.8250
47	5.7932	5.7932
48	5.6440	5.6440
49	5.3836	5.3836
50	5.1908	5.1908
51	5.1457	5.1457
52	4.8582	4.8582
53	4.8087	4.8087
54	4.5498	4.5498

Stream Protection Duration

POC #15

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

4.0483	1518	1518	100	Pass
4.1347	1418	1418	100	Pass
4.2211	1329	1329	100	Pass
4.3075	1235	1235	100	Pass
4.3939	1137	1137	100	Pass
4.4803	1054	1054	100	Pass
4.5667	989	989	100	Pass
4.6531	929	929	100	Pass
4.7395	871	871	100	Pass
4.8259	801	801	100	Pass
4.9123	753	753	100	Pass
4.9987	691	691	100	Pass
5.0851	649	649	100	Pass
5.1715	611	611	100	Pass
5.2579	568	568	100	Pass
5.3443	525	525	100	Pass
5.4307	492	492	100	Pass
5.5171	463	463	100	Pass
5.6035	435	435	100	Pass
5.6899	403	403	100	Pass
5.7763	377	377	100	Pass
5.8627	342	342	100	Pass
5.9491	317	317	100	Pass
6.0355	301	301	100	Pass
6.1220	286	286	100	Pass
6.2084	267	267	100	Pass
6.2948	256	256	100	Pass
6.3812	234	234	100	Pass
6.4676	221	221	100	Pass
6.5540	206	206	100	Pass
6.6404	193	193	100	Pass
6.7268	185	185	100	Pass
6.8132	176	176	100	Pass
6.8996	162	162	100	Pass
6.9860	157	157	100	Pass
7.0724	145	145	100	Pass
7.1588	138	138	100	Pass
7.2452	133	133	100	Pass
7.3316	124	124	100	Pass
7.4180	117	117	100	Pass
7.5044	113	113	100	Pass
7.5908	106	106	100	Pass
7.6772	98	98	100	Pass
7.7636	91	91	100	Pass
7.8500	88	88	100	Pass
7.9364	83	83	100	Pass
8.0228	77	77	100	Pass
8.1092	71	71	100	Pass
8.1956	66	66	100	Pass
8.2820	62	62	100	Pass
8.3684	58	58	100	Pass
8.4548	56	56	100	Pass
8.5412	53	53	100	Pass
8.6277	49	49	100	Pass
8.7141	44	44	100	Pass
8.8005	41	41	100	Pass
8.8869	39	39	100	Pass

8.9733	37	37	100	Pass
9.0597	33	33	100	Pass
9.1461	27	27	100	Pass
9.2325	25	25	100	Pass
9.3189	25	25	100	Pass
9.4053	24	24	100	Pass
9.4917	23	23	100	Pass
9.5781	20	20	100	Pass
9.6645	18	18	100	Pass
9.7509	17	17	100	Pass
9.8373	16	16	100	Pass
9.9237	15	15	100	Pass
10.0101	15	15	100	Pass
10.0965	15	15	100	Pass
10.1829	14	14	100	Pass
10.2693	14	14	100	Pass
10.3557	10	10	100	Pass
10.4421	9	9	100	Pass
10.5285	9	9	100	Pass
10.6149	9	9	100	Pass
10.7013	8	8	100	Pass
10.7877	8	8	100	Pass
10.8741	6	6	100	Pass
10.9605	6	6	100	Pass
11.0469	6	6	100	Pass
11.1334	6	6	100	Pass
11.2198	6	6	100	Pass
11.3062	6	6	100	Pass
11.3926	5	5	100	Pass
11.4790	4	4	100	Pass
11.5654	4	4	100	Pass
11.6518	4	4	100	Pass
11.7382	3	3	100	Pass
11.8246	3	3	100	Pass
11.9110	3	3	100	Pass
11.9974	2	2	100	Pass
12.0838	2	2	100	Pass
12.1702	1	1	100	Pass
12.2566	0	0	100	Pass
12.3430	0	0	0	Pass
12.4294	0	0	0	Pass
12.5158	0	0	0	Pass
12.6022	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #15

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
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Percent Volumn Infiltrated	Water Quality	Percent Treatment? Water Quality Treated	Comment Needs Treatment (ac-ft)	Through Facility (ac-ft)	Volumn (ac-ft.)	Volumn Infiltration Credit
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Stream Protection Duration

Predeveloped Landuse Totals for POC #16

Total Pervious Area:0.77

Total Impervious Area:1.92

Mitigated Landuse Totals for POC #16

Total Pervious Area:0.77

Total Impervious Area:1.92

Flow Frequency Return Periods for Predeveloped. POC #16

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.608979
5 year	1.923103
10 year	2.098195
25 year	2.292191
50 year	2.421083
100 year	2.539139

Flow Frequency Return Periods for Mitigated. POC #16

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.608979

5 year	1.923103
10 year	2.098195
25 year	2.292191
50 year	2.421083
100 year	2.539139

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #16

Year	Predeveloped	Mitigated
1956	1.694	1.694
1957	2.104	2.104
1958	1.595	1.595
1959	1.736	1.736
1960	1.794	1.794
1961	1.327	1.327
1962	2.277	2.277
1963	2.135	2.135
1964	1.806	1.806
1965	1.746	1.746
1966	1.720	1.720
1967	1.169	1.169
1968	1.628	1.628
1969	1.573	1.573
1970	1.492	1.492
1971	2.211	2.211
1972	2.046	2.046
1973	1.804	1.804
1974	1.767	1.767
1975	1.624	1.624
1976	1.851	1.851
1977	1.415	1.415
1978	2.363	2.363
1979	1.615	1.615
1980	1.419	1.419
1981	1.759	1.759
1982	2.047	2.047
1983	1.601	1.601
1984	1.570	1.570
1985	1.087	1.087
1986	1.793	1.793
1987	1.277	1.277
1988	1.705	1.705
1989	1.513	1.513
1990	1.978	1.978
1991	1.264	1.264
1992	1.060	1.060
1993	1.074	1.074
1994	1.611	1.611
1995	1.346	1.346
1996	1.622	1.622
1997	1.598	1.598
1998	1.127	1.127
1999	1.391	1.391
2000	1.234	1.234
2001	1.141	1.141
2002	1.792	1.792

2003	2.265	2.265
2004	1.983	1.983
2005	1.588	1.588
2006	1.669	1.669
2007	1.968	1.968
2008	1.024	1.024
2009	0.966	0.966

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #16

Rank	Predeveloped	Mitigated
1	2.3629	2.3629
2	2.2765	2.2765
3	2.2648	2.2648
4	2.2114	2.2114
5	2.1350	2.1350
6	2.1038	2.1038
7	2.0468	2.0468
8	2.0455	2.0455
9	1.9833	1.9833
10	1.9780	1.9780
11	1.9678	1.9678
12	1.8507	1.8507
13	1.8063	1.8063
14	1.8041	1.8041
15	1.7937	1.7937
16	1.7935	1.7935
17	1.7924	1.7924
18	1.7671	1.7671
19	1.7593	1.7593
20	1.7459	1.7459
21	1.7364	1.7364
22	1.7203	1.7203
23	1.7048	1.7048
24	1.6937	1.6937
25	1.6691	1.6691
26	1.6275	1.6275
27	1.6239	1.6239
28	1.6224	1.6224
29	1.6147	1.6147
30	1.6108	1.6108
31	1.6014	1.6014
32	1.5982	1.5982
33	1.5945	1.5945
34	1.5877	1.5877
35	1.5728	1.5728
36	1.5703	1.5703
37	1.5132	1.5132
38	1.4923	1.4923
39	1.4194	1.4194
40	1.4147	1.4147
41	1.3912	1.3912
42	1.3463	1.3463
43	1.3268	1.3268
44	1.2769	1.2769
45	1.2638	1.2638

46	1.2336	1.2336
47	1.1685	1.1685
48	1.1407	1.1407
49	1.1272	1.1272
50	1.0870	1.0870
51	1.0739	1.0739
52	1.0603	1.0603
53	1.0244	1.0244
54	0.9660	0.9660

Stream Protection Duration

POC #16

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.8045	1352	1352	100	Pass
0.8208	1243	1243	100	Pass
0.8371	1145	1145	100	Pass
0.8535	1057	1057	100	Pass
0.8698	986	986	100	Pass
0.8861	911	911	100	Pass
0.9025	848	848	100	Pass
0.9188	797	797	100	Pass
0.9351	746	746	100	Pass
0.9515	701	701	100	Pass
0.9678	653	653	100	Pass
0.9841	601	601	100	Pass
1.0004	554	554	100	Pass
1.0168	515	515	100	Pass
1.0331	480	480	100	Pass
1.0494	446	446	100	Pass
1.0658	410	410	100	Pass
1.0821	381	381	100	Pass
1.0984	358	358	100	Pass
1.1147	338	338	100	Pass
1.1311	323	323	100	Pass
1.1474	298	298	100	Pass
1.1637	278	278	100	Pass
1.1801	254	254	100	Pass
1.1964	241	241	100	Pass
1.2127	224	224	100	Pass
1.2290	209	209	100	Pass
1.2454	198	198	100	Pass
1.2617	188	188	100	Pass
1.2780	176	176	100	Pass
1.2944	168	168	100	Pass
1.3107	155	155	100	Pass
1.3270	147	147	100	Pass
1.3434	143	143	100	Pass
1.3597	137	137	100	Pass
1.3760	130	130	100	Pass
1.3923	118	118	100	Pass
1.4087	114	114	100	Pass
1.4250	106	106	100	Pass

1.4413	102	102	100	Pass
1.4577	98	98	100	Pass
1.4740	92	92	100	Pass
1.4903	87	87	100	Pass
1.5066	83	83	100	Pass
1.5230	79	79	100	Pass
1.5393	76	76	100	Pass
1.5556	72	72	100	Pass
1.5720	68	68	100	Pass
1.5883	63	63	100	Pass
1.6046	54	54	100	Pass
1.6210	49	49	100	Pass
1.6373	46	46	100	Pass
1.6536	45	45	100	Pass
1.6699	42	42	100	Pass
1.6863	40	40	100	Pass
1.7026	39	39	100	Pass
1.7189	37	37	100	Pass
1.7353	34	34	100	Pass
1.7516	30	30	100	Pass
1.7679	29	29	100	Pass
1.7842	28	28	100	Pass
1.8006	23	23	100	Pass
1.8169	21	21	100	Pass
1.8332	21	21	100	Pass
1.8496	21	21	100	Pass
1.8659	19	19	100	Pass
1.8822	18	18	100	Pass
1.8985	17	17	100	Pass
1.9149	16	16	100	Pass
1.9312	15	15	100	Pass
1.9475	14	14	100	Pass
1.9639	13	13	100	Pass
1.9802	11	11	100	Pass
1.9965	10	10	100	Pass
2.0129	10	10	100	Pass
2.0292	10	10	100	Pass
2.0455	10	10	100	Pass
2.0618	8	8	100	Pass
2.0782	8	8	100	Pass
2.0945	7	7	100	Pass
2.1108	6	6	100	Pass
2.1272	6	6	100	Pass
2.1435	5	5	100	Pass
2.1598	5	5	100	Pass
2.1761	5	5	100	Pass
2.1925	5	5	100	Pass
2.2088	4	4	100	Pass
2.2251	3	3	100	Pass
2.2415	3	3	100	Pass
2.2578	3	3	100	Pass
2.2741	2	2	100	Pass
2.2904	1	1	100	Pass
2.3068	1	1	100	Pass
2.3231	1	1	100	Pass
2.3394	1	1	100	Pass
2.3558	1	1	100	Pass

2.3721	0	0	100	Pass
2.3884	0	0	0	Pass
2.4048	0	0	0	Pass
2.4211	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #16

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volume	Volume	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volume	Volume
Volume	Treatment?	Needs	Through	Volume	Volume
Infiltrated	Water Quality	Treatment	Facility	(ac-ft.)	Infiltration
	Treated	(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #17

Total Pervious Area:0.46

Total Impervious Area:0.74

Mitigated Landuse Totals for POC #17
Total Pervious Area:0.46
Total Impervious Area:0.74

Flow Frequency Return Periods for Predeveloped. POC #17

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.669298
5 year	0.802433
10 year	0.874948
25 year	0.953697
50 year	1.005027
100 year	1.051315

Flow Frequency Return Periods for Mitigated. POC #17

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.669298
5 year	0.802433
10 year	0.874948
25 year	0.953697
50 year	1.005027
100 year	1.051315

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #17

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.706	0.706
1957	0.868	0.868
1958	0.647	0.647
1959	0.744	0.744
1960	0.768	0.768
1961	0.580	0.580
1962	0.960	0.960
1963	0.905	0.905
1964	0.751	0.751
1965	0.728	0.728
1966	0.716	0.716
1967	0.493	0.493
1968	0.669	0.669
1969	0.655	0.655
1970	0.609	0.609
1971	0.910	0.910
1972	0.878	0.878
1973	0.746	0.746
1974	0.746	0.746
1975	0.691	0.691
1976	0.767	0.767
1977	0.595	0.595
1978	0.977	0.977
1979	0.694	0.694
1980	0.610	0.610
1981	0.727	0.727
1982	0.850	0.850
1983	0.663	0.663
1984	0.670	0.670

1985	0.443	0.443
1986	0.746	0.746
1987	0.534	0.534
1988	0.675	0.675
1989	0.611	0.611
1990	0.810	0.810
1991	0.528	0.528
1992	0.454	0.454
1993	0.414	0.414
1994	0.686	0.686
1995	0.519	0.519
1996	0.625	0.625
1997	0.666	0.666
1998	0.468	0.468
1999	0.576	0.576
2000	0.502	0.502
2001	0.443	0.443
2002	0.693	0.693
2003	0.963	0.963
2004	0.819	0.819
2005	0.656	0.656
2006	0.700	0.700
2007	0.828	0.828
2008	0.421	0.421
2009	0.395	0.395

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #17

Rank	Predeveloped	Mitigated
1	0.9771	0.9771
2	0.9633	0.9633
3	0.9597	0.9597
4	0.9102	0.9102
5	0.9055	0.9055
6	0.8777	0.8777
7	0.8677	0.8677
8	0.8501	0.8501
9	0.8282	0.8282
10	0.8188	0.8188
11	0.8104	0.8104
12	0.7680	0.7680
13	0.7667	0.7667
14	0.7512	0.7512
15	0.7462	0.7462
16	0.7460	0.7460
17	0.7458	0.7458
18	0.7436	0.7436
19	0.7277	0.7277
20	0.7274	0.7274
21	0.7164	0.7164
22	0.7059	0.7059
23	0.6999	0.6999
24	0.6937	0.6937
25	0.6925	0.6925
26	0.6911	0.6911
27	0.6858	0.6858

28	0.6752	0.6752
29	0.6704	0.6704
30	0.6686	0.6686
31	0.6656	0.6656
32	0.6631	0.6631
33	0.6559	0.6559
34	0.6546	0.6546
35	0.6472	0.6472
36	0.6253	0.6253
37	0.6109	0.6109
38	0.6100	0.6100
39	0.6089	0.6089
40	0.5948	0.5948
41	0.5798	0.5798
42	0.5758	0.5758
43	0.5344	0.5344
44	0.5283	0.5283
45	0.5189	0.5189
46	0.5019	0.5019
47	0.4926	0.4926
48	0.4678	0.4678
49	0.4536	0.4536
50	0.4431	0.4431
51	0.4429	0.4429
52	0.4209	0.4209
53	0.4144	0.4144
54	0.3951	0.3951

Stream Protection Duration

POC #17

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3346	1404	1404	100	Pass
0.3414	1289	1289	100	Pass
0.3482	1185	1185	100	Pass
0.3550	1097	1097	100	Pass
0.3617	1015	1015	100	Pass
0.3685	949	949	100	Pass
0.3753	884	884	100	Pass
0.3820	829	829	100	Pass
0.3888	786	786	100	Pass
0.3956	736	736	100	Pass
0.4024	685	685	100	Pass
0.4091	647	647	100	Pass
0.4159	602	602	100	Pass
0.4227	547	547	100	Pass
0.4294	500	500	100	Pass
0.4362	471	471	100	Pass
0.4430	446	446	100	Pass
0.4498	401	401	100	Pass
0.4565	381	381	100	Pass
0.4633	356	356	100	Pass
0.4701	336	336	100	Pass

0.4769	315	315	100	Pass
0.4836	296	296	100	Pass
0.4904	272	272	100	Pass
0.4972	257	257	100	Pass
0.5039	239	239	100	Pass
0.5107	220	220	100	Pass
0.5175	214	214	100	Pass
0.5243	196	196	100	Pass
0.5310	185	185	100	Pass
0.5378	180	180	100	Pass
0.5446	169	169	100	Pass
0.5513	164	164	100	Pass
0.5581	152	152	100	Pass
0.5649	143	143	100	Pass
0.5717	140	140	100	Pass
0.5784	131	131	100	Pass
0.5852	123	123	100	Pass
0.5920	120	120	100	Pass
0.5987	110	110	100	Pass
0.6055	103	103	100	Pass
0.6123	95	95	100	Pass
0.6191	93	93	100	Pass
0.6258	89	89	100	Pass
0.6326	85	85	100	Pass
0.6394	78	78	100	Pass
0.6461	73	73	100	Pass
0.6529	71	71	100	Pass
0.6597	65	65	100	Pass
0.6665	60	60	100	Pass
0.6732	56	56	100	Pass
0.6800	53	53	100	Pass
0.6868	49	49	100	Pass
0.6935	43	43	100	Pass
0.7003	40	40	100	Pass
0.7071	39	39	100	Pass
0.7139	38	38	100	Pass
0.7206	35	35	100	Pass
0.7274	33	33	100	Pass
0.7342	30	30	100	Pass
0.7409	29	29	100	Pass
0.7477	24	24	100	Pass
0.7545	22	22	100	Pass
0.7613	22	22	100	Pass
0.7680	19	19	100	Pass
0.7748	19	19	100	Pass
0.7816	18	18	100	Pass
0.7883	18	18	100	Pass
0.7951	18	18	100	Pass
0.8019	17	17	100	Pass
0.8087	16	16	100	Pass
0.8154	15	15	100	Pass
0.8222	12	12	100	Pass
0.8290	12	12	100	Pass
0.8357	10	10	100	Pass
0.8425	10	10	100	Pass
0.8493	10	10	100	Pass
0.8561	9	9	100	Pass

0.8628	9	9	100	Pass
0.8696	7	7	100	Pass
0.8764	7	7	100	Pass
0.8831	6	6	100	Pass
0.8899	6	6	100	Pass
0.8967	6	6	100	Pass
0.9035	6	6	100	Pass
0.9102	5	5	100	Pass
0.9170	4	4	100	Pass
0.9238	4	4	100	Pass
0.9305	4	4	100	Pass
0.9373	4	4	100	Pass
0.9441	3	3	100	Pass
0.9509	3	3	100	Pass
0.9576	3	3	100	Pass
0.9644	1	1	100	Pass
0.9712	1	1	100	Pass
0.9779	1	1	100	Pass
0.9847	0	0	100	Pass
0.9915	0	0	0	Pass
0.9983	0	0	0	Pass
1.0050	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #17
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volume	Volume	Infiltration	Cumulative
Percent	Water Quality	Percent	Through	Volume	Volume
Volume	Treatment?	Needs	Facility	(ac-ft.)	Infiltration
Infiltrated	Water Quality	Treatment	(ac-ft)	(ac-ft)	Credit
	Treated	(ac-ft)	(ac-ft)		

Stream Protection Duration

Predeveloped Landuse Totals for POC #18

Total Pervious Area:0.2

Total Impervious Area:0.44

Mitigated Landuse Totals for POC #18

Total Pervious Area:0.2

Total Impervious Area:0.44

Flow Frequency Return Periods for Predeveloped. POC #18

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.3768
5 year	0.449562
10 year	0.489054
25 year	0.531841
50 year	0.559679
100 year	0.58475

Flow Frequency Return Periods for Mitigated. POC #18

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.3768
5 year	0.449562
10 year	0.489054
25 year	0.531841
50 year	0.559679
100 year	0.58475

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #18

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.396	0.396
1957	0.490	0.490
1958	0.370	0.370
1959	0.409	0.409
1960	0.422	0.422
1961	0.314	0.314
1962	0.534	0.534
1963	0.501	0.501
1964	0.422	0.422
1965	0.407	0.407
1966	0.402	0.402

1967	0.274	0.274
1968	0.379	0.379
1969	0.367	0.367
1970	0.347	0.347
1971	0.515	0.515
1972	0.482	0.482
1973	0.421	0.421
1974	0.414	0.414
1975	0.382	0.382
1976	0.432	0.432
1977	0.331	0.331
1978	0.551	0.551
1979	0.380	0.380
1980	0.334	0.334
1981	0.410	0.410
1982	0.478	0.478
1983	0.374	0.374
1984	0.369	0.369
1985	0.252	0.252
1986	0.419	0.419
1987	0.299	0.299
1988	0.393	0.393
1989	0.351	0.351
1990	0.460	0.460
1991	0.294	0.294
1992	0.249	0.249
1993	0.246	0.246
1994	0.379	0.379
1995	0.309	0.309
1996	0.372	0.372
1997	0.373	0.373
1998	0.263	0.263
1999	0.324	0.324
2000	0.287	0.287
2001	0.262	0.262
2002	0.411	0.411
2003	0.532	0.532
2004	0.462	0.462
2005	0.370	0.370
2006	0.391	0.391
2007	0.461	0.461
2008	0.239	0.239
2009	0.225	0.225

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #18

Rank	Predeveloped	Mitigated
1	0.5511	0.5511
2	0.5336	0.5336
3	0.5321	0.5321
4	0.5151	0.5151
5	0.5012	0.5012
6	0.4903	0.4903
7	0.4817	0.4817
8	0.4779	0.4779
9	0.4623	0.4623

10	0.4610	0.4610
11	0.4602	0.4602
12	0.4318	0.4318
13	0.4221	0.4221
14	0.4219	0.4219
15	0.4207	0.4207
16	0.4189	0.4189
17	0.4143	0.4143
18	0.4110	0.4110
19	0.4103	0.4103
20	0.4087	0.4087
21	0.4070	0.4070
22	0.4019	0.4019
23	0.3958	0.3958
24	0.3933	0.3933
25	0.3907	0.3907
26	0.3815	0.3815
27	0.3803	0.3803
28	0.3789	0.3789
29	0.3785	0.3785
30	0.3736	0.3736
31	0.3734	0.3734
32	0.3718	0.3718
33	0.3702	0.3702
34	0.3701	0.3701
35	0.3693	0.3693
36	0.3674	0.3674
37	0.3508	0.3508
38	0.3469	0.3469
39	0.3338	0.3338
40	0.3313	0.3313
41	0.3244	0.3244
42	0.3139	0.3139
43	0.3085	0.3085
44	0.2987	0.2987
45	0.2942	0.2942
46	0.2865	0.2865
47	0.2739	0.2739
48	0.2631	0.2631
49	0.2619	0.2619
50	0.2525	0.2525
51	0.2495	0.2495
52	0.2462	0.2462
53	0.2385	0.2385
54	0.2247	0.2247

Stream Protection Duration

POC #18

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.1884	1353	1353	100	Pass
0.1922	1233	1233	100	Pass
0.1959	1161	1161	100	Pass

0.1997	1074	1074	100	Pass
0.2034	991	991	100	Pass
0.2072	911	911	100	Pass
0.2109	863	863	100	Pass
0.2147	814	814	100	Pass
0.2184	758	758	100	Pass
0.2222	711	711	100	Pass
0.2259	680	680	100	Pass
0.2297	622	622	100	Pass
0.2334	571	571	100	Pass
0.2372	523	523	100	Pass
0.2409	502	502	100	Pass
0.2447	460	460	100	Pass
0.2484	423	423	100	Pass
0.2522	390	390	100	Pass
0.2559	369	369	100	Pass
0.2597	347	347	100	Pass
0.2634	325	325	100	Pass
0.2672	307	307	100	Pass
0.2709	291	291	100	Pass
0.2747	269	269	100	Pass
0.2784	250	250	100	Pass
0.2822	232	232	100	Pass
0.2859	218	218	100	Pass
0.2897	207	207	100	Pass
0.2934	193	193	100	Pass
0.2972	182	182	100	Pass
0.3009	176	176	100	Pass
0.3047	160	160	100	Pass
0.3084	155	155	100	Pass
0.3122	148	148	100	Pass
0.3159	142	142	100	Pass
0.3197	137	137	100	Pass
0.3234	128	128	100	Pass
0.3272	119	119	100	Pass
0.3309	117	117	100	Pass
0.3347	104	104	100	Pass
0.3384	101	101	100	Pass
0.3422	96	96	100	Pass
0.3459	95	95	100	Pass
0.3497	87	87	100	Pass
0.3534	83	83	100	Pass
0.3572	77	77	100	Pass
0.3609	75	75	100	Pass
0.3647	72	72	100	Pass
0.3684	67	67	100	Pass
0.3722	61	61	100	Pass
0.3759	57	57	100	Pass
0.3797	49	49	100	Pass
0.3834	46	46	100	Pass
0.3872	45	45	100	Pass
0.3909	43	43	100	Pass
0.3947	39	39	100	Pass
0.3984	37	37	100	Pass
0.4022	36	36	100	Pass
0.4059	35	35	100	Pass
0.4097	32	32	100	Pass

0.4134	28	28	100	Pass
0.4172	25	25	100	Pass
0.4209	24	24	100	Pass
0.4247	21	21	100	Pass
0.4284	21	21	100	Pass
0.4322	20	20	100	Pass
0.4359	20	20	100	Pass
0.4397	18	18	100	Pass
0.4434	17	17	100	Pass
0.4472	17	17	100	Pass
0.4509	16	16	100	Pass
0.4547	14	14	100	Pass
0.4584	14	14	100	Pass
0.4622	11	11	100	Pass
0.4659	10	10	100	Pass
0.4697	10	10	100	Pass
0.4734	10	10	100	Pass
0.4772	10	10	100	Pass
0.4809	9	9	100	Pass
0.4847	8	8	100	Pass
0.4884	7	7	100	Pass
0.4922	6	6	100	Pass
0.4959	6	6	100	Pass
0.4997	6	6	100	Pass
0.5034	5	5	100	Pass
0.5072	5	5	100	Pass
0.5109	5	5	100	Pass
0.5147	5	5	100	Pass
0.5184	3	3	100	Pass
0.5222	3	3	100	Pass
0.5259	3	3	100	Pass
0.5297	3	3	100	Pass
0.5334	2	2	100	Pass
0.5372	1	1	100	Pass
0.5409	1	1	100	Pass
0.5447	1	1	100	Pass
0.5484	1	1	100	Pass
0.5522	0	0	100	Pass
0.5559	0	0	0	Pass
0.5597	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #18
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative	
Percent	Water Quality	Percent	Comment	Volumn	Volumn	
Volumn		Treatment?	Needs	Through	Volumn	
		Water Quality	Treatment	Facility	(ac-ft.)	Infiltration

Infiltrated

Treated

(ac-ft)

(ac-ft)

Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #19

Total Pervious Area:1.53

Total Impervious Area:4.51

Mitigated Landuse Totals for POC #19

Total Pervious Area:1.53

Total Impervious Area:4.51

Flow Frequency Return Periods for Predeveloped. POC #19

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	3.700493
5 year	4.415888
10 year	4.814183
25 year	5.25513
50 year	5.547911
100 year	5.815957

Flow Frequency Return Periods for Mitigated. POC #19

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	3.700493
5 year	4.415888
10 year	4.814183
25 year	5.25513

50 year 5.547911
100 year 5.815957

Stream Protection Duration
Annual Peaks for Predeveloped and Mitigated. POC #19

Year	Predeveloped	Mitigated
1956	3.888	3.888
1957	4.845	4.845
1958	3.690	3.690
1959	3.952	3.952
1960	4.082	4.082
1961	3.000	3.000
1962	5.207	5.207
1963	4.874	4.874
1964	4.149	4.149
1965	4.019	4.019
1966	3.950	3.950
1967	2.673	2.673
1968	3.752	3.752
1969	3.612	3.612
1970	3.448	3.448
1971	5.096	5.096
1972	4.652	4.652
1973	4.152	4.152
1974	4.040	4.040
1975	3.703	3.703
1976	4.256	4.256
1977	3.238	3.238
1978	5.437	5.437
1979	3.671	3.671
1980	3.234	3.234
1981	4.048	4.048
1982	4.703	4.703
1983	3.683	3.683
1984	3.577	3.577
1985	2.527	2.527
1986	4.119	4.119
1987	2.927	2.927
1988	3.973	3.973
1989	3.507	3.507
1990	4.564	4.564
1991	2.915	2.915
1992	2.414	2.414
1993	2.522	2.522
1994	3.673	3.673
1995	3.162	3.162
1996	3.811	3.811
1997	3.669	3.669
1998	2.591	2.591
1999	3.202	3.202
2000	2.853	2.853
2001	2.674	2.674
2002	4.207	4.207
2003	5.165	5.165
2004	4.566	4.566
2005	3.654	3.654

2006	3.824	3.824
2007	4.503	4.503
2008	2.362	2.362
2009	2.230	2.230

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #19

Rank	Predeveloped	Mitigated
1	5.4370	5.4370
2	5.2070	5.2070
3	5.1655	5.1655
4	5.0956	5.0956
5	4.8740	4.8740
6	4.8446	4.8446
7	4.7033	4.7033
8	4.6522	4.6522
9	4.5657	4.5657
10	4.5640	4.5640
11	4.5032	4.5032
12	4.2561	4.2561
13	4.2073	4.2073
14	4.1517	4.1517
15	4.1489	4.1489
16	4.1192	4.1192
17	4.0824	4.0824
18	4.0484	4.0484
19	4.0395	4.0395
20	4.0190	4.0190
21	3.9735	3.9735
22	3.9519	3.9519
23	3.9497	3.9497
24	3.8879	3.8879
25	3.8239	3.8239
26	3.8109	3.8109
27	3.7523	3.7523
28	3.7030	3.7030
29	3.6897	3.6897
30	3.6831	3.6831
31	3.6728	3.6728
32	3.6711	3.6711
33	3.6693	3.6693
34	3.6543	3.6543
35	3.6119	3.6119
36	3.5774	3.5774
37	3.5072	3.5072
38	3.4479	3.4479
39	3.2384	3.2384
40	3.2336	3.2336
41	3.2020	3.2020
42	3.1623	3.1623
43	3.0000	3.0000
44	2.9273	2.9273
45	2.9150	2.9150
46	2.8526	2.8526
47	2.6738	2.6738
48	2.6727	2.6727

49	2.5908	2.5908
50	2.5269	2.5269
51	2.5218	2.5218
52	2.4138	2.4138
53	2.3616	2.3616
54	2.2302	2.2302

Stream Protection Duration

POC #19

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.8502	1335	1335	100	Pass
1.8876	1230	1230	100	Pass
1.9249	1131	1131	100	Pass
1.9623	1045	1045	100	Pass
1.9996	965	965	100	Pass
2.0370	902	902	100	Pass
2.0743	845	845	100	Pass
2.1117	784	784	100	Pass
2.1490	729	729	100	Pass
2.1864	686	686	100	Pass
2.2237	645	645	100	Pass
2.2611	588	588	100	Pass
2.2984	546	546	100	Pass
2.3358	515	515	100	Pass
2.3731	474	474	100	Pass
2.4105	445	445	100	Pass
2.4478	404	404	100	Pass
2.4852	378	378	100	Pass
2.5225	355	355	100	Pass
2.5599	335	335	100	Pass
2.5972	311	311	100	Pass
2.6346	296	296	100	Pass
2.6719	273	273	100	Pass
2.7093	251	251	100	Pass
2.7467	235	235	100	Pass
2.7840	220	220	100	Pass
2.8214	211	211	100	Pass
2.8587	198	198	100	Pass
2.8961	185	185	100	Pass
2.9334	174	174	100	Pass
2.9708	167	167	100	Pass
3.0081	158	158	100	Pass
3.0455	149	149	100	Pass
3.0828	141	141	100	Pass
3.1202	136	136	100	Pass
3.1575	129	129	100	Pass
3.1949	117	117	100	Pass
3.2322	111	111	100	Pass
3.2696	105	105	100	Pass
3.3069	102	102	100	Pass
3.3443	98	98	100	Pass
3.3816	89	89	100	Pass

3.4190	85	85	100	Pass
3.4563	82	82	100	Pass
3.4937	79	79	100	Pass
3.5310	73	73	100	Pass
3.5684	72	72	100	Pass
3.6057	68	68	100	Pass
3.6431	65	65	100	Pass
3.6804	55	55	100	Pass
3.7178	49	49	100	Pass
3.7551	46	46	100	Pass
3.7925	45	45	100	Pass
3.8298	41	41	100	Pass
3.8672	41	41	100	Pass
3.9045	39	39	100	Pass
3.9419	38	38	100	Pass
3.9792	32	32	100	Pass
4.0166	31	31	100	Pass
4.0539	28	28	100	Pass
4.0913	27	27	100	Pass
4.1286	26	26	100	Pass
4.1660	22	22	100	Pass
4.2033	22	22	100	Pass
4.2407	20	20	100	Pass
4.2780	19	19	100	Pass
4.3154	18	18	100	Pass
4.3527	17	17	100	Pass
4.3901	15	15	100	Pass
4.4274	15	15	100	Pass
4.4648	14	14	100	Pass
4.5021	13	13	100	Pass
4.5395	12	12	100	Pass
4.5768	10	10	100	Pass
4.6142	10	10	100	Pass
4.6515	10	10	100	Pass
4.6889	9	9	100	Pass
4.7262	8	8	100	Pass
4.7636	8	8	100	Pass
4.8009	8	8	100	Pass
4.8383	7	7	100	Pass
4.8756	5	5	100	Pass
4.9130	5	5	100	Pass
4.9503	5	5	100	Pass
4.9877	4	4	100	Pass
5.0250	4	4	100	Pass
5.0624	4	4	100	Pass
5.0997	3	3	100	Pass
5.1371	3	3	100	Pass
5.1744	2	2	100	Pass
5.2118	1	1	100	Pass
5.2491	1	1	100	Pass
5.2865	1	1	100	Pass
5.3238	1	1	100	Pass
5.3612	1	1	100	Pass
5.3985	1	1	100	Pass
5.4359	1	1	100	Pass
5.4732	0	0	100	Pass
5.5106	0	0	0	Pass

5.5479 0 0 0 Pass

Water Quality BMP Flow and Volume for POC #19

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
Volumn	Treatment?	Needs	Through	(ac-ft.)	Infiltration
Infiltrated	Water Quality	Treatment	Facility		
	Treated	(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #20

Total Pervious Area:0.02

Total Impervious Area:0.04

Mitigated Landuse Totals for POC #20

Total Pervious Area:0.02

Total Impervious Area:0.04

Flow Frequency Return Periods for Predeveloped. POC #20

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.034774
5 year	0.041541
10 year	0.045217
25 year	0.049203
50 year	0.051797
100 year	0.054134

Flow Frequency Return Periods for Mitigated. POC #20

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.034774
5 year	0.041541
10 year	0.045217
25 year	0.049203
50 year	0.051797
100 year	0.054134

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #20

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.037	0.037
1957	0.045	0.045
1958	0.034	0.034
1959	0.038	0.038
1960	0.039	0.039
1961	0.029	0.029
1962	0.049	0.049
1963	0.046	0.046
1964	0.039	0.039
1965	0.038	0.038
1966	0.037	0.037
1967	0.025	0.025
1968	0.035	0.035
1969	0.034	0.034
1970	0.032	0.032
1971	0.047	0.047
1972	0.045	0.045
1973	0.039	0.039
1974	0.038	0.038
1975	0.035	0.035
1976	0.040	0.040
1977	0.031	0.031
1978	0.051	0.051
1979	0.035	0.035
1980	0.031	0.031
1981	0.038	0.038
1982	0.044	0.044
1983	0.034	0.034
1984	0.034	0.034
1985	0.023	0.023
1986	0.039	0.039
1987	0.028	0.028
1988	0.036	0.036

1989	0.032	0.032
1990	0.042	0.042
1991	0.027	0.027
1992	0.023	0.023
1993	0.022	0.022
1994	0.035	0.035
1995	0.028	0.028
1996	0.034	0.034
1997	0.035	0.035
1998	0.024	0.024
1999	0.030	0.030
2000	0.026	0.026
2001	0.024	0.024
2002	0.037	0.037
2003	0.049	0.049
2004	0.043	0.043
2005	0.034	0.034
2006	0.036	0.036
2007	0.043	0.043
2008	0.022	0.022
2009	0.021	0.021

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #20

Rank	Predeveloped	Mitigated
1	0.0508	0.0508
2	0.0494	0.0494
3	0.0494	0.0494
4	0.0475	0.0475
5	0.0465	0.0465
6	0.0452	0.0452
7	0.0448	0.0448
8	0.0441	0.0441
9	0.0427	0.0427
10	0.0426	0.0426
11	0.0424	0.0424
12	0.0399	0.0399
13	0.0392	0.0392
14	0.0390	0.0390
15	0.0388	0.0388
16	0.0387	0.0387
17	0.0384	0.0384
18	0.0380	0.0380
19	0.0378	0.0378
20	0.0375	0.0375
21	0.0374	0.0374
22	0.0371	0.0371
23	0.0366	0.0366
24	0.0361	0.0361
25	0.0360	0.0360
26	0.0354	0.0354
27	0.0354	0.0354
28	0.0351	0.0351
29	0.0349	0.0349
30	0.0345	0.0345
31	0.0345	0.0345

32	0.0343	0.0343
33	0.0341	0.0341
34	0.0340	0.0340
35	0.0339	0.0339
36	0.0338	0.0338
37	0.0322	0.0322
38	0.0319	0.0319
39	0.0310	0.0310
40	0.0307	0.0307
41	0.0299	0.0299
42	0.0293	0.0293
43	0.0280	0.0280
44	0.0276	0.0276
45	0.0271	0.0271
46	0.0263	0.0263
47	0.0254	0.0254
48	0.0243	0.0243
49	0.0238	0.0238
50	0.0232	0.0232
51	0.0232	0.0232
52	0.0224	0.0224
53	0.0220	0.0220
54	0.0207	0.0207

Stream Protection Duration

POC #20

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0174	1365	1365	100	Pass
0.0177	1245	1245	100	Pass
0.0181	1155	1155	100	Pass
0.0184	1070	1070	100	Pass
0.0188	984	984	100	Pass
0.0191	919	919	100	Pass
0.0195	859	859	100	Pass
0.0198	806	806	100	Pass
0.0202	757	757	100	Pass
0.0205	717	717	100	Pass
0.0209	674	674	100	Pass
0.0212	619	619	100	Pass
0.0216	569	569	100	Pass
0.0219	530	530	100	Pass
0.0223	489	489	100	Pass
0.0226	459	459	100	Pass
0.0229	424	424	100	Pass
0.0233	391	391	100	Pass
0.0236	370	370	100	Pass
0.0240	345	345	100	Pass
0.0243	328	328	100	Pass
0.0247	307	307	100	Pass
0.0250	286	286	100	Pass
0.0254	268	268	100	Pass
0.0257	253	253	100	Pass

0.0261	231	231	100	Pass
0.0264	218	218	100	Pass
0.0268	208	208	100	Pass
0.0271	194	194	100	Pass
0.0275	184	184	100	Pass
0.0278	172	172	100	Pass
0.0282	160	160	100	Pass
0.0285	153	153	100	Pass
0.0289	150	150	100	Pass
0.0292	141	141	100	Pass
0.0296	135	135	100	Pass
0.0299	128	128	100	Pass
0.0302	123	123	100	Pass
0.0306	113	113	100	Pass
0.0309	104	104	100	Pass
0.0313	101	101	100	Pass
0.0316	97	97	100	Pass
0.0320	92	92	100	Pass
0.0323	87	87	100	Pass
0.0327	82	82	100	Pass
0.0330	77	77	100	Pass
0.0334	74	74	100	Pass
0.0337	71	71	100	Pass
0.0341	66	66	100	Pass
0.0344	62	62	100	Pass
0.0348	55	55	100	Pass
0.0351	49	49	100	Pass
0.0355	45	45	100	Pass
0.0358	45	45	100	Pass
0.0362	42	42	100	Pass
0.0365	39	39	100	Pass
0.0369	37	37	100	Pass
0.0372	36	36	100	Pass
0.0375	33	33	100	Pass
0.0379	31	31	100	Pass
0.0382	27	27	100	Pass
0.0386	25	25	100	Pass
0.0389	23	23	100	Pass
0.0393	21	21	100	Pass
0.0396	21	21	100	Pass
0.0400	20	20	100	Pass
0.0403	19	19	100	Pass
0.0407	17	17	100	Pass
0.0410	17	17	100	Pass
0.0414	17	17	100	Pass
0.0417	17	17	100	Pass
0.0421	15	15	100	Pass
0.0424	13	13	100	Pass
0.0428	10	10	100	Pass
0.0431	10	10	100	Pass
0.0435	10	10	100	Pass
0.0438	10	10	100	Pass
0.0442	9	9	100	Pass
0.0445	9	9	100	Pass
0.0448	8	8	100	Pass
0.0452	7	7	100	Pass
0.0455	6	6	100	Pass

0.0459	6	6	100	Pass
0.0462	6	6	100	Pass
0.0466	5	5	100	Pass
0.0469	5	5	100	Pass
0.0473	5	5	100	Pass
0.0476	4	4	100	Pass
0.0480	4	4	100	Pass
0.0483	3	3	100	Pass
0.0487	3	3	100	Pass
0.0490	3	3	100	Pass
0.0494	3	3	100	Pass
0.0497	1	1	100	Pass
0.0501	1	1	100	Pass
0.0504	1	1	100	Pass
0.0508	1	1	100	Pass
0.0511	0	0	100	Pass
0.0514	0	0	0	Pass
0.0518	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #20
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment	Volumn	Volumn
	Treatment?	Needs	Through	(ac-ft.)	Infiltration
Volumn	Water Quality	Treatment	Facility		
Infiltrated	Treated	(ac-ft)	(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #21

Total Pervious Area:0.1

Total Impervious Area:0.11

Mitigated Landuse Totals for POC #21

Total Pervious Area:0.1

Total Impervious Area:0.11

Flow Frequency Return Periods for Predeveloped. POC #21

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.108734
5 year	0.131515
10 year	0.144003
25 year	0.157621
50 year	0.166527
100 year	0.174577

Flow Frequency Return Periods for Mitigated. POC #21

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.108734
5 year	0.131515
10 year	0.144003
25 year	0.157621
50 year	0.166527
100 year	0.174577

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #21

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.115	0.115
1957	0.140	0.140
1958	0.103	0.103
1959	0.125	0.125
1960	0.129	0.129
1961	0.099	0.099
1962	0.159	0.159
1963	0.151	0.151
1964	0.122	0.122
1965	0.120	0.120
1966	0.117	0.117
1967	0.081	0.081
1968	0.107	0.107
1969	0.107	0.107
1970	0.097	0.097

1971	0.147	0.147
1972	0.148	0.148
1973	0.121	0.121
1974	0.124	0.124
1975	0.115	0.115
1976	0.127	0.127
1977	0.098	0.098
1978	0.158	0.158
1979	0.117	0.117
1980	0.105	0.105
1981	0.118	0.118
1982	0.138	0.138
1983	0.107	0.107
1984	0.112	0.112
1985	0.071	0.071
1986	0.122	0.122
1987	0.088	0.088
1988	0.104	0.104
1989	0.096	0.096
1990	0.130	0.130
1991	0.088	0.088
1992	0.076	0.076
1993	0.064	0.064
1994	0.115	0.115
1995	0.077	0.077
1996	0.093	0.093
1997	0.109	0.109
1998	0.076	0.076
1999	0.094	0.094
2000	0.080	0.080
2001	0.066	0.066
2002	0.103	0.103
2003	0.161	0.161
2004	0.132	0.132
2005	0.106	0.106
2006	0.115	0.115
2007	0.137	0.137
2008	0.068	0.068
2009	0.064	0.064

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #21

Rank	Predeveloped	Mitigated
1	0.1607	0.1607
2	0.1586	0.1586
3	0.1581	0.1581
4	0.1506	0.1506
5	0.1478	0.1478
6	0.1465	0.1465
7	0.1400	0.1400
8	0.1382	0.1382
9	0.1366	0.1366
10	0.1323	0.1323
11	0.1298	0.1298
12	0.1290	0.1290
13	0.1267	0.1267

14	0.1249	0.1249
15	0.1235	0.1235
16	0.1223	0.1223
17	0.1215	0.1215
18	0.1206	0.1206
19	0.1201	0.1201
20	0.1177	0.1177
21	0.1169	0.1169
22	0.1168	0.1168
23	0.1154	0.1154
24	0.1152	0.1152
25	0.1150	0.1150
26	0.1145	0.1145
27	0.1123	0.1123
28	0.1092	0.1092
29	0.1075	0.1075
30	0.1074	0.1074
31	0.1067	0.1067
32	0.1060	0.1060
33	0.1046	0.1046
34	0.1039	0.1039
35	0.1033	0.1033
36	0.1025	0.1025
37	0.0994	0.0994
38	0.0980	0.0980
39	0.0970	0.0970
40	0.0962	0.0962
41	0.0938	0.0938
42	0.0930	0.0930
43	0.0877	0.0877
44	0.0876	0.0876
45	0.0814	0.0814
46	0.0797	0.0797
47	0.0772	0.0772
48	0.0761	0.0761
49	0.0760	0.0760
50	0.0706	0.0706
51	0.0680	0.0680
52	0.0665	0.0665
53	0.0643	0.0643
54	0.0635	0.0635

Stream Protection Duration

POC #21

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0544	1470	1470	100	Pass
0.0555	1357	1357	100	Pass
0.0566	1265	1265	100	Pass
0.0578	1166	1166	100	Pass
0.0589	1084	1084	100	Pass
0.0600	1001	1001	100	Pass
0.0612	942	942	100	Pass

0.0623	874	874	100	Pass
0.0634	808	808	100	Pass
0.0646	764	764	100	Pass
0.0657	719	719	100	Pass
0.0668	668	668	100	Pass
0.0680	621	621	100	Pass
0.0691	572	572	100	Pass
0.0702	542	542	100	Pass
0.0714	507	507	100	Pass
0.0725	472	472	100	Pass
0.0736	433	433	100	Pass
0.0748	400	400	100	Pass
0.0759	365	365	100	Pass
0.0770	344	344	100	Pass
0.0782	321	321	100	Pass
0.0793	308	308	100	Pass
0.0804	287	287	100	Pass
0.0816	269	269	100	Pass
0.0827	253	253	100	Pass
0.0838	233	233	100	Pass
0.0850	216	216	100	Pass
0.0861	207	207	100	Pass
0.0872	195	195	100	Pass
0.0884	186	186	100	Pass
0.0895	181	181	100	Pass
0.0906	171	171	100	Pass
0.0918	162	162	100	Pass
0.0929	155	155	100	Pass
0.0940	142	142	100	Pass
0.0952	132	132	100	Pass
0.0963	128	128	100	Pass
0.0974	120	120	100	Pass
0.0986	115	115	100	Pass
0.0997	108	108	100	Pass
0.1008	100	100	100	Pass
0.1020	91	91	100	Pass
0.1031	86	86	100	Pass
0.1042	83	83	100	Pass
0.1053	80	80	100	Pass
0.1065	75	75	100	Pass
0.1076	65	65	100	Pass
0.1087	62	62	100	Pass
0.1099	58	58	100	Pass
0.1110	56	56	100	Pass
0.1121	55	55	100	Pass
0.1133	53	53	100	Pass
0.1144	49	49	100	Pass
0.1155	42	42	100	Pass
0.1167	40	40	100	Pass
0.1178	36	36	100	Pass
0.1189	35	35	100	Pass
0.1201	33	33	100	Pass
0.1212	30	30	100	Pass
0.1223	27	27	100	Pass
0.1235	25	25	100	Pass
0.1246	22	22	100	Pass
0.1257	20	20	100	Pass

0.1269	19	19	100	Pass
0.1280	19	19	100	Pass
0.1291	18	18	100	Pass
0.1303	16	16	100	Pass
0.1314	16	16	100	Pass
0.1325	15	15	100	Pass
0.1337	15	15	100	Pass
0.1348	14	14	100	Pass
0.1359	13	13	100	Pass
0.1371	12	12	100	Pass
0.1382	12	12	100	Pass
0.1393	10	10	100	Pass
0.1405	7	7	100	Pass
0.1416	7	7	100	Pass
0.1427	7	7	100	Pass
0.1439	7	7	100	Pass
0.1450	7	7	100	Pass
0.1461	7	7	100	Pass
0.1473	6	6	100	Pass
0.1484	5	5	100	Pass
0.1495	5	5	100	Pass
0.1507	5	5	100	Pass
0.1518	4	4	100	Pass
0.1529	4	4	100	Pass
0.1541	4	4	100	Pass
0.1552	4	4	100	Pass
0.1563	4	4	100	Pass
0.1575	4	4	100	Pass
0.1586	2	2	100	Pass
0.1597	1	1	100	Pass
0.1609	0	0	100	Pass
0.1620	0	0	0	Pass
0.1631	0	0	0	Pass
0.1643	0	0	0	Pass
0.1654	0	0	0	Pass
0.1665	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #21

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Through	Volumn	Volumn
	Treatment?	Needs	Facility	(ac-ft.)	Infiltration
Volumn	Water Quality	Treatment	(ac-ft)		Credit
Infiltrated	Treated				

Stream Protection Duration

Predeveloped Landuse Totals for POC #22

Total Pervious Area:2.35

Total Impervious Area:2.06

Mitigated Landuse Totals for POC #22

Total Pervious Area:2.35

Total Impervious Area:2.06

Flow Frequency Return Periods for Predeveloped. POC #22

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.179736
5 year	2.650078
10 year	2.908875
25 year	3.19179
50 year	3.377182
100 year	3.544991

Flow Frequency Return Periods for Mitigated. POC #22

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.179736
5 year	2.650078
10 year	2.908875
25 year	3.19179
50 year	3.377182
100 year	3.544991

Stream Protection Duration**Annual Peaks for Predeveloped and Mitigated. POC #22**

Year	Predeveloped	Mitigated
1956	2.313	2.313
1957	2.788	2.788
1958	2.015	2.015
1959	2.557	2.557
1960	2.640	2.640
1961	2.062	2.062
1962	3.211	3.211
1963	3.062	3.062
1964	2.452	2.452
1965	2.429	2.429
1966	2.344	2.344
1967	1.648	1.648
1968	2.132	2.132
1969	2.139	2.139
1970	1.916	1.916
1971	2.913	2.913
1972	3.029	3.029
1973	2.406	2.406
1974	2.504	2.504
1975	2.351	2.351
1976	2.600	2.600
1977	1.981	1.981
1978	3.155	3.155
1979	2.399	2.399
1980	2.169	2.169
1981	2.348	2.348
1982	2.768	2.768
1983	2.147	2.147
1984	2.293	2.293
1985	1.394	1.394
1986	2.436	2.436
1987	1.765	1.765
1988	1.998	1.998
1989	1.882	1.882
1990	2.571	2.571
1991	1.782	1.782
1992	1.557	1.557
1993	1.288	1.288
1994	2.335	2.335
1995	1.469	1.469
1996	1.741	1.741
1997	2.223	2.223
1998	1.521	1.521
1999	1.891	1.891
2000	1.570	1.570
2001	1.254	1.254
2002	1.939	1.939
2003	3.274	3.274
2004	2.636	2.636
2005	2.114	2.114
2006	2.319	2.319
2007	2.763	2.763
2008	1.389	1.389
2009	1.303	1.303

Stream Protection Duration**Ranked Annual Peaks for Predeveloped and Mitigated. POC #22**

Rank	Predeveloped	Mitigated
1	3.2740	3.2740
2	3.2108	3.2108
3	3.1552	3.1552
4	3.0619	3.0619
5	3.0291	3.0291
6	2.9130	2.9130
7	2.7878	2.7878
8	2.7676	2.7676
9	2.7631	2.7631
10	2.6400	2.6400
11	2.6358	2.6358
12	2.5998	2.5998
13	2.5712	2.5712
14	2.5571	2.5571
15	2.5041	2.5041
16	2.4521	2.4521
17	2.4359	2.4359
18	2.4289	2.4289
19	2.4064	2.4064
20	2.3988	2.3988
21	2.3513	2.3513
22	2.3479	2.3479
23	2.3444	2.3444
24	2.3346	2.3346
25	2.3194	2.3194
26	2.3127	2.3127
27	2.2929	2.2929
28	2.2233	2.2233
29	2.1685	2.1685
30	2.1470	2.1470
31	2.1391	2.1391
32	2.1322	2.1322
33	2.1139	2.1139
34	2.0620	2.0620
35	2.0152	2.0152
36	1.9981	1.9981
37	1.9805	1.9805
38	1.9390	1.9390
39	1.9158	1.9158
40	1.8907	1.8907
41	1.8817	1.8817
42	1.7822	1.7822
43	1.7646	1.7646
44	1.7411	1.7411
45	1.6478	1.6478
46	1.5705	1.5705
47	1.5573	1.5573
48	1.5210	1.5210
49	1.4689	1.4689
50	1.3938	1.3938
51	1.3886	1.3886
52	1.3029	1.3029

53	1.2883	1.2883
54	1.2542	1.2542

Stream Protection Duration

POC #22

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.0899	1512	1512	100	Pass
1.1130	1409	1409	100	Pass
1.1361	1324	1324	100	Pass
1.1592	1216	1216	100	Pass
1.1823	1132	1132	100	Pass
1.2054	1048	1048	100	Pass
1.2285	970	970	100	Pass
1.2516	917	917	100	Pass
1.2747	849	849	100	Pass
1.2978	792	792	100	Pass
1.3209	740	740	100	Pass
1.3440	690	690	100	Pass
1.3671	643	643	100	Pass
1.3902	606	606	100	Pass
1.4133	558	558	100	Pass
1.4364	525	525	100	Pass
1.4595	491	491	100	Pass
1.4826	450	450	100	Pass
1.5057	422	422	100	Pass
1.5288	393	393	100	Pass
1.5520	367	367	100	Pass
1.5751	337	337	100	Pass
1.5982	317	317	100	Pass
1.6213	297	297	100	Pass
1.6444	279	279	100	Pass
1.6675	267	267	100	Pass
1.6906	248	248	100	Pass
1.7137	233	233	100	Pass
1.7368	216	216	100	Pass
1.7599	202	202	100	Pass
1.7830	190	190	100	Pass
1.8061	182	182	100	Pass
1.8292	172	172	100	Pass
1.8523	164	164	100	Pass
1.8754	157	157	100	Pass
1.8985	145	145	100	Pass
1.9216	139	139	100	Pass
1.9447	129	129	100	Pass
1.9678	124	124	100	Pass
1.9909	119	119	100	Pass
2.0140	108	108	100	Pass
2.0371	104	104	100	Pass
2.0602	96	96	100	Pass
2.0833	90	90	100	Pass
2.1065	87	87	100	Pass
2.1296	80	80	100	Pass

2.1527	76	76	100	Pass
2.1758	71	71	100	Pass
2.1989	64	64	100	Pass
2.2220	60	60	100	Pass
2.2451	58	58	100	Pass
2.2682	57	57	100	Pass
2.2913	53	53	100	Pass
2.3144	48	48	100	Pass
2.3375	44	44	100	Pass
2.3606	40	40	100	Pass
2.3837	38	38	100	Pass
2.4068	37	37	100	Pass
2.4299	34	34	100	Pass
2.4530	27	27	100	Pass
2.4761	26	26	100	Pass
2.4992	25	25	100	Pass
2.5223	22	22	100	Pass
2.5454	22	22	100	Pass
2.5685	21	21	100	Pass
2.5916	19	19	100	Pass
2.6147	17	17	100	Pass
2.6378	16	16	100	Pass
2.6610	15	15	100	Pass
2.6841	15	15	100	Pass
2.7072	15	15	100	Pass
2.7303	14	14	100	Pass
2.7534	14	14	100	Pass
2.7765	11	11	100	Pass
2.7996	9	9	100	Pass
2.8227	9	9	100	Pass
2.8458	9	9	100	Pass
2.8689	8	8	100	Pass
2.8920	7	7	100	Pass
2.9151	6	6	100	Pass
2.9382	6	6	100	Pass
2.9613	6	6	100	Pass
2.9844	6	6	100	Pass
3.0075	6	6	100	Pass
3.0306	5	5	100	Pass
3.0537	5	5	100	Pass
3.0768	4	4	100	Pass
3.0999	4	4	100	Pass
3.1230	4	4	100	Pass
3.1461	4	4	100	Pass
3.1692	3	3	100	Pass
3.1923	3	3	100	Pass
3.2155	2	2	100	Pass
3.2386	2	2	100	Pass
3.2617	1	1	100	Pass
3.2848	0	0	100	Pass
3.3079	0	0	0	Pass
3.3310	0	0	0	Pass
3.3541	0	0	0	Pass
3.3772	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #22

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative
Percent	Water Quality	Percent	Comment		
		Treatment?	Needs	Through	Volumn
Volumn		Water Quality	Treatment	Facility	(ac-ft.)
Infiltrated	Treated		(ac-ft)	(ac-ft)	Infiltration
			(ac-ft)		Credit

Stream Protection Duration

Predeveloped Landuse Totals for POC #23

Total Pervious Area:0.21

Total Impervious Area:0.51

Mitigated Landuse Totals for POC #23

Total Pervious Area:0.21

Total Impervious Area:0.51

Flow Frequency Return Periods for Predeveloped. POC #23

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.428934
5 year	0.512824
10 year	0.559594
25 year	0.61142
50 year	0.645858
100 year	0.677403

Flow Frequency Return Periods for Mitigated. POC #23

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.428934
5 year	0.512824
10 year	0.559594
25 year	0.61142
50 year	0.645858
100 year	0.677403

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #23

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.452	0.452
1957	0.561	0.561
1958	0.425	0.425
1959	0.464	0.464
1960	0.479	0.479
1961	0.355	0.355
1962	0.607	0.607
1963	0.570	0.570
1964	0.482	0.482
1965	0.465	0.465
1966	0.459	0.459
1967	0.312	0.312
1968	0.434	0.434
1969	0.419	0.419
1970	0.398	0.398
1971	0.589	0.589
1972	0.546	0.546
1973	0.481	0.481
1974	0.472	0.472
1975	0.434	0.434
1976	0.493	0.493
1977	0.377	0.377
1978	0.630	0.630
1979	0.431	0.431
1980	0.379	0.379
1981	0.469	0.469
1982	0.546	0.546
1983	0.427	0.427
1984	0.419	0.419
1985	0.289	0.289
1986	0.478	0.478
1987	0.341	0.341
1988	0.453	0.453
1989	0.403	0.403
1990	0.527	0.527
1991	0.337	0.337

1992	0.283	0.283
1993	0.285	0.285
1994	0.430	0.430
1995	0.358	0.358
1996	0.431	0.431
1997	0.426	0.426
1998	0.301	0.301
1999	0.371	0.371
2000	0.329	0.329
2001	0.303	0.303
2002	0.476	0.476
2003	0.605	0.605
2004	0.529	0.529
2005	0.423	0.423
2006	0.445	0.445
2007	0.525	0.525
2008	0.273	0.273
2009	0.257	0.257

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #23

Rank	Predeveloped	Mitigated
1	0.6299	0.6299
2	0.6075	0.6075
3	0.6046	0.6046
4	0.5893	0.5893
5	0.5699	0.5699
6	0.5607	0.5607
7	0.5463	0.5463
8	0.5457	0.5457
9	0.5286	0.5286
10	0.5270	0.5270
11	0.5250	0.5250
12	0.4934	0.4934
13	0.4816	0.4816
14	0.4809	0.4809
15	0.4790	0.4790
16	0.4782	0.4782
17	0.4762	0.4762
18	0.4716	0.4716
19	0.4690	0.4690
20	0.4654	0.4654
21	0.4637	0.4637
22	0.4587	0.4587
23	0.4534	0.4534
24	0.4517	0.4517
25	0.4452	0.4452
26	0.4337	0.4337
27	0.4335	0.4335
28	0.4313	0.4313
29	0.4309	0.4309
30	0.4300	0.4300
31	0.4269	0.4269
32	0.4262	0.4262
33	0.4246	0.4246
34	0.4232	0.4232

35	0.4194	0.4194
36	0.4193	0.4193
37	0.4029	0.4029
38	0.3975	0.3975
39	0.3790	0.3790
40	0.3774	0.3774
41	0.3708	0.3708
42	0.3576	0.3576
43	0.3547	0.3547
44	0.3406	0.3406
45	0.3368	0.3368
46	0.3286	0.3286
47	0.3118	0.3118
48	0.3031	0.3031
49	0.3005	0.3005
50	0.2894	0.2894
51	0.2853	0.2853
52	0.2831	0.2831
53	0.2730	0.2730
54	0.2574	0.2574

Stream Protection Duration

POC #23

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2145	1365	1365	100	Pass
0.2188	1261	1261	100	Pass
0.2232	1148	1148	100	Pass
0.2275	1065	1065	100	Pass
0.2319	996	996	100	Pass
0.2363	912	912	100	Pass
0.2406	854	854	100	Pass
0.2450	807	807	100	Pass
0.2493	748	748	100	Pass
0.2537	710	710	100	Pass
0.2580	650	650	100	Pass
0.2624	605	605	100	Pass
0.2668	562	562	100	Pass
0.2711	518	518	100	Pass
0.2755	490	490	100	Pass
0.2798	456	456	100	Pass
0.2842	414	414	100	Pass
0.2885	385	385	100	Pass
0.2929	358	358	100	Pass
0.2973	339	339	100	Pass
0.3016	325	325	100	Pass
0.3060	304	304	100	Pass
0.3103	280	280	100	Pass
0.3147	263	263	100	Pass
0.3190	242	242	100	Pass
0.3234	225	225	100	Pass
0.3278	215	215	100	Pass
0.3321	199	199	100	Pass

0.3365	190	190	100	Pass
0.3408	180	180	100	Pass
0.3452	167	167	100	Pass
0.3495	155	155	100	Pass
0.3539	152	152	100	Pass
0.3583	142	142	100	Pass
0.3626	137	137	100	Pass
0.3670	133	133	100	Pass
0.3713	119	119	100	Pass
0.3757	115	115	100	Pass
0.3801	106	106	100	Pass
0.3844	103	103	100	Pass
0.3888	98	98	100	Pass
0.3931	92	92	100	Pass
0.3975	87	87	100	Pass
0.4018	84	84	100	Pass
0.4062	79	79	100	Pass
0.4106	76	76	100	Pass
0.4149	72	72	100	Pass
0.4193	69	69	100	Pass
0.4236	64	64	100	Pass
0.4280	56	56	100	Pass
0.4323	48	48	100	Pass
0.4367	46	46	100	Pass
0.4411	45	45	100	Pass
0.4454	42	42	100	Pass
0.4498	40	40	100	Pass
0.4541	38	38	100	Pass
0.4585	37	37	100	Pass
0.4628	34	34	100	Pass
0.4672	31	31	100	Pass
0.4716	29	29	100	Pass
0.4759	28	28	100	Pass
0.4803	23	23	100	Pass
0.4846	21	21	100	Pass
0.4890	21	21	100	Pass
0.4933	21	21	100	Pass
0.4977	19	19	100	Pass
0.5021	18	18	100	Pass
0.5064	17	17	100	Pass
0.5108	16	16	100	Pass
0.5151	15	15	100	Pass
0.5195	14	14	100	Pass
0.5238	14	14	100	Pass
0.5282	11	11	100	Pass
0.5326	10	10	100	Pass
0.5369	10	10	100	Pass
0.5413	10	10	100	Pass
0.5456	10	10	100	Pass
0.5500	8	8	100	Pass
0.5544	8	8	100	Pass
0.5587	7	7	100	Pass
0.5631	6	6	100	Pass
0.5674	6	6	100	Pass
0.5718	5	5	100	Pass
0.5761	5	5	100	Pass
0.5805	5	5	100	Pass

0.5849	5	5	100	Pass
0.5892	4	4	100	Pass
0.5936	3	3	100	Pass
0.5979	3	3	100	Pass
0.6023	3	3	100	Pass
0.6066	2	2	100	Pass
0.6110	1	1	100	Pass
0.6154	1	1	100	Pass
0.6197	1	1	100	Pass
0.6241	1	1	100	Pass
0.6284	1	1	100	Pass
0.6328	0	0	100	Pass
0.6371	0	0	0	Pass
0.6415	0	0	0	Pass
0.6459	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #23
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for	Total Volumn	Volumn	Infiltration	Cumulative	
Percent	Water Quality	Percent	Comment			
		Treatment?	Needs	Through	Volumn	
Volumn		Water Quality	Treatment	Facility	(ac-ft.)	Infiltration
Infiltrated		Treated	(ac-ft)	(ac-ft)		Credit

Perlnd and Implnd Changes

No changes have been made.

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WWHM2012
PROJECT REPORT

General Model Information

Project Name: EMERSON WWHM
Site Name:
Site Address:
City:
Report Date: 8/17/2020
Gage: Montesano
Data Start: 1955/10/01
Data End: 2009/09/30
Timestep: 15 Minute
Precip Scale: 0.000 (adjusted)
Version Date: 2019/09/13
Version: 4.2.17

POC Thresholds

Low Flow Threshold for POC1: 50 Percent of the 2 Year
High Flow Threshold for POC1: 50 Year

Low Flow Threshold for POC2: 50 Percent of the 2 Year
High Flow Threshold for POC2: 50 Year

Low Flow Threshold for POC3: 50 Percent of the 2 Year
High Flow Threshold for POC3: 50 Year

Low Flow Threshold for POC4: 50 Percent of the 2 Year
High Flow Threshold for POC4: 50 Year

Low Flow Threshold for POC5: 50 Percent of the 2 Year
High Flow Threshold for POC5: 50 Year

Low Flow Threshold for POC6: 50 Percent of the 2 Year
High Flow Threshold for POC6: 50 Year

Low Flow Threshold for POC7: 50 Percent of the 2 Year
High Flow Threshold for POC7: 50 Year

Low Flow Threshold for POC8: 50 Percent of the 2 Year
High Flow Threshold for POC8: 50 Year

Low Flow Threshold for POC9: 50 Percent of the 2 Year
High Flow Threshold for POC9: 50 Year

Low Flow Threshold for POC10:	50 Percent of the 2 Year
High Flow Threshold for POC10:	50 Year

Low Flow Threshold for POC11:	50 Percent of the 2 Year
High Flow Threshold for POC11:	50 Year

Low Flow Threshold for POC12:	50 Percent of the 2 Year
High Flow Threshold for POC12:	50 Year

Low Flow Threshold for POC13:	50 Percent of the 2 Year
High Flow Threshold for POC13:	50 Year

Low Flow Threshold for POC14:	50 Percent of the 2 Year
High Flow Threshold for POC14:	50 Year

Low Flow Threshold for POC15:	50 Percent of the 2 Year
High Flow Threshold for POC15:	50 Year

Low Flow Threshold for POC16:	50 Percent of the 2 Year
High Flow Threshold for POC16:	50 Year

Low Flow Threshold for POC17:	50 Percent of the 2 Year
High Flow Threshold for POC17:	50 Year

Low Flow Threshold for POC18:	50 Percent of the 2 Year
High Flow Threshold for POC18:	50 Year

Low Flow Threshold for POC19:	50 Percent of the 2 Year
High Flow Threshold for POC19:	50 Year

Low Flow Threshold for POC20:	50 Percent of the 2 Year
High Flow Threshold for POC20:	50 Year

Low Flow Threshold for POC21:	50 Percent of the 2 Year
High Flow Threshold for POC21:	50 Year

Low Flow Threshold for POC22:	50 Percent of the 2 Year
High Flow Threshold for POC22:	50 Year

Low Flow Threshold for POC23:	50 Percent of the 2 Year
High Flow Threshold for POC23:	50 Year

Low Flow Threshold for POC24:	50 Percent of the 2 Year
High Flow Threshold for POC24:	50 Year

Low Flow Threshold for POC27:	50 Percent of the 2 Year
High Flow Threshold for POC27:	50 Year

Low Flow Threshold for POC28:	50 Percent of the 2 Year
High Flow Threshold for POC28:	50 Year

Low Flow Threshold for POC29:	50 Percent of the 2 Year
High Flow Threshold for POC29:	50 Year

Low Flow Threshold for POC30:	50 Percent of the 2 Year
High Flow Threshold for POC30:	50 Year

Low Flow Threshold for POC31:	50 Percent of the 2 Year
High Flow Threshold for POC31:	50 Year

Low Flow Threshold for POC32:	50 Percent of the 2 Year
High Flow Threshold for POC32:	50 Year

Low Flow Threshold for POC33:	50 Percent of the 2 Year
High Flow Threshold for POC33:	50 Year

Low Flow Threshold for POC34:	50 Percent of the 2 Year
High Flow Threshold for POC34:	50 Year

Low Flow Threshold for POC35:	50 Percent of the 2 Year
High Flow Threshold for POC35:	50 Year

Low Flow Threshold for POC36:	50 Percent of the 2 Year
High Flow Threshold for POC36:	50 Year

Low Flow Threshold for POC37:	50 Percent of the 2 Year
High Flow Threshold for POC37:	50 Year

Low Flow Threshold for POC38:	50 Percent of the 2 Year
High Flow Threshold for POC38:	50 Year

Low Flow Threshold for POC39:	50 Percent of the 2 Year
High Flow Threshold for POC39:	50 Year

Low Flow Threshold for POC40:	50 Percent of the 2 Year
High Flow Threshold for POC40:	50 Year

Low Flow Threshold for POC41:	50 Percent of the 2 Year
High Flow Threshold for POC41:	50 Year

Low Flow Threshold for POC42:	50 Percent of the 2 Year
High Flow Threshold for POC42:	50 Year

Low Flow Threshold for POC43:	50 Percent of the 2 Year
High Flow Threshold for POC43:	50 Year

Low Flow Threshold for POC44:	50 Percent of the 2 Year
High Flow Threshold for POC44:	50 Year

Low Flow Threshold for POC45:	50 Percent of the 2 Year
High Flow Threshold for POC45:	50 Year

Low Flow Threshold for POC46:	50 Percent of the 2 Year
High Flow Threshold for POC46:	50 Year

Low Flow Threshold for POC47:	50 Percent of the 2 Year
High Flow Threshold for POC47:	50 Year

Low Flow Threshold for POC48:	50 Percent of the 2 Year
High Flow Threshold for POC48:	50 Year

Low Flow Threshold for POC49:	50 Percent of the 2 Year
High Flow Threshold for POC49:	50 Year

Low Flow Threshold for POC50:	50 Percent of the 2 Year
High Flow Threshold for POC50:	50 Year

Low Flow Threshold for POC51:	50 Percent of the 2 Year
High Flow Threshold for POC51:	50 Year

Low Flow Threshold for POC52:	50 Percent of the 2 Year
High Flow Threshold for POC52:	50 Year

Low Flow Threshold for POC53:	50 Percent of the 2 Year
High Flow Threshold for POC53:	50 Year

Low Flow Threshold for POC54:	50 Percent of the 2 Year
High Flow Threshold for POC54:	50 Year

Low Flow Threshold for POC55:	50 Percent of the 2 Year
High Flow Threshold for POC55:	50 Year

Low Flow Threshold for POC56:	50 Percent of the 2 Year
High Flow Threshold for POC56:	50 Year

Low Flow Threshold for POC57: 50 Percent of the 2 Year
High Flow Threshold for POC57: 50 Year

Low Flow Threshold for POC58: 50 Percent of the 2 Year
High Flow Threshold for POC58: 50 Year

Low Flow Threshold for POC59: 50 Percent of the 2 Year
High Flow Threshold for POC59: 50 Year

Low Flow Threshold for POC60: 50 Percent of the 2 Year
High Flow Threshold for POC60: 50 Year

Low Flow Threshold for POC61: 50 Percent of the 2 Year
High Flow Threshold for POC61: 50 Year

Low Flow Threshold for POC62: 50 Percent of the 2 Year
High Flow Threshold for POC62: 50 Year

Low Flow Threshold for POC63: 50 Percent of the 2 Year
High Flow Threshold for POC63: 50 Year

Low Flow Threshold for POC64: 50 Percent of the 2 Year
High Flow Threshold for POC64: 50 Year

Low Flow Threshold for POC65: 50 Percent of the 2 Year
High Flow Threshold for POC65: 50 Year

Low Flow Threshold for POC66: 50 Percent of the 2 Year
High Flow Threshold for POC66: 50 Year

Low Flow Threshold for POC67: 50 Percent of the 2 Year
High Flow Threshold for POC67: 50 Year

Low Flow Threshold for POC68: 50 Percent of the 2 Year
High Flow Threshold for POC68: 50 Year

Low Flow Threshold for POC69: 50 Percent of the 2 Year
High Flow Threshold for POC69: 50 Year

Landuse Basin Data

Predeveloped Land Use

OS-62

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 3.04
Pervious Total	3.04
Impervious Land Use ROADS FLAT	acre 2.81
Impervious Total	2.81
Basin Total	5.85

Element Flows To: Surface	Interflow	Groundwater
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OS-35

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.99

Pervious Total 0.99

Impervious Land Use acre
ROADS FLAT 0.91

Impervious Total 0.91

Basin Total 1.9

Element Flows To:
Surface Interflow Groundwater

OS-60

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 4.49

Pervious Total 4.49

Impervious Land Use acre
ROADS FLAT 4.15

Impervious Total 4.15

Basin Total 8.64

Element Flows To:
Surface Interflow Groundwater

OS-33

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.36
Pervious Total	0.36
Impervious Land Use ROADS FLAT	acre 0.33
Impervious Total	0.33
Basin Total	0.69

Element Flows To: Surface	Interflow	Groundwater
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OS-165

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 4.43
Pervious Total	4.43
Impervious Land Use ROADS FLAT	acre 4.09
Impervious Total	4.09
Basin Total	8.52

Element Flows To: Surface	Interflow	Groundwater
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OS-153

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 3.11
Pervious Total	3.11
Impervious Land Use ROADS FLAT	acre 2.87
Impervious Total	2.87
Basin Total	5.98

Element Flows To: Surface	Interflow	Groundwater
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OS-127

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.15

Pervious Total 2.15

Impervious Land Use acre
ROADS FLAT 1.99

Impervious Total 1.99

Basin Total 4.14

Element Flows To:
Surface Interflow Groundwater

OS-90

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 1.84

Pervious Total 1.84

Impervious Land Use acre
ROADS FLAT 1.7

Impervious Total 1.7

Basin Total 3.54

Element Flows To:
Surface Interflow Groundwater

OS-82

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 4.03
Pervious Total	4.03
Impervious Land Use ROADS FLAT	acre 3.27
Impervious Total	3.27
Basin Total	7.3

Element Flows To: Surface	Interflow	Groundwater
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OS-58

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.4
Pervious Total	1.4
Impervious Land Use ROADS FLAT	acre 1.29
Impervious Total	1.29
Basin Total	2.69

Element Flows To: Surface	Interflow	Groundwater
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OS-31

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.67

Pervious Total 0.67

Impervious Land Use acre
ROADS FLAT 0.62

Impervious Total 0.62

Basin Total 1.29

Element Flows To:
Surface Interflow Groundwater

OS-22

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 4.52

Pervious Total 4.52

Impervious Land Use acre
ROADS FLAT 4.17

Impervious Total 4.17

Basin Total 8.69

Element Flows To:
Surface Interflow Groundwater

OS-21

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 5.27
Pervious Total	5.27
Impervious Land Use ROADS FLAT	acre 4.87
Impervious Total	4.87
Basin Total	10.14

Element Flows To: Surface	Interflow	Groundwater
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OS-20

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.11

Pervious Total 2.11

Impervious Land Use acre
ROADS FLAT 1.95

Impervious Total 1.95

Basin Total 4.06

Element Flows To:
Surface Interflow Groundwater

OS-19

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.62

Pervious Total 0.62

Impervious Land Use acre
ROADS FLAT 0.57

Impervious Total 0.57

Basin Total 1.19

Element Flows To:
Surface Interflow Groundwater

OS-18

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 1.47

Pervious Total 1.47

Impervious Land Use acre
ROADS FLAT 1.36

Impervious Total 1.36

Basin Total 2.83

Element Flows To:
Surface Interflow Groundwater

OS-17

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 1.67

Pervious Total 1.67

Impervious Land Use acre
ROADS FLAT 1.54

Impervious Total 1.54

Basin Total 3.21

Element Flows To:
Surface Interflow Groundwater

OS-16

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.58

Pervious Total 0.58

Impervious Land Use acre
ROADS FLAT 0.54

Impervious Total 0.54

Basin Total 1.12

Element Flows To:
Surface Interflow Groundwater

OS-15

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.49
Pervious Total	1.49
Impervious Land Use ROADS FLAT	acre 1.37
Impervious Total	1.37
Basin Total	2.86

Element Flows To: Surface	Interflow	Groundwater
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OS-14

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.2
Pervious Total	2.2
Impervious Land Use ROADS FLAT	acre 2.03
Impervious Total	2.03
Basin Total	4.23

Element Flows To: Surface	Interflow	Groundwater
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OS-13

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.27

Pervious Total 2.27

Impervious Land Use acre
ROADS FLAT 2.09

Impervious Total 2.09

Basin Total 4.36

Element Flows To:
Surface Interflow Groundwater

OS-12

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.78
Pervious Total	0.78
Impervious Land Use ROADS FLAT	acre 0.72
Impervious Total	0.72
Basin Total	1.5

Element Flows To: Surface	Interflow	Groundwater
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OS-11A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.8
Pervious Total	0.8
Impervious Land Use ROADS FLAT	acre 0.73
Impervious Total	0.73
Basin Total	1.53

Element Flows To: Surface	Interflow	Groundwater
------------------------------	-----------	-------------

OS-9

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.6
Pervious Total	1.6
Impervious Land Use ROADS FLAT	acre 1.47
Impervious Total	1.47
Basin Total	3.07

Element Flows To: Surface	Interflow	Groundwater
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OS-8

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.13

Pervious Total 2.13

Impervious Land Use acre
ROADS FLAT 1.96

Impervious Total 1.96

Basin Total 4.09

Element Flows To:
Surface Interflow Groundwater

OS-7

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.63
Pervious Total	0.63
Impervious Land Use ROADS FLAT	acre 0.58
Impervious Total	0.58
Basin Total	1.21

Element Flows To: Surface	Interflow	Groundwater
------------------------------	-----------	-------------

OS-5

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.01

Pervious Total 0.01

Impervious Land Use acre
ROADS FLAT 0.07

Impervious Total 0.07

Basin Total 0.08

Element Flows To:
Surface Interflow Groundwater

OS-2

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.02

Pervious Total 0.02

Impervious Land Use acre
ROADS FLAT 0.16

Impervious Total 0.16

Basin Total 0.18

Element Flows To:
Surface Interflow Groundwater

CBSD-32

Bypass: No

GroundWater: No

Pervious Land Use
C, Lawn, Flat acre
5.06

Pervious Total 5.06

Impervious Land Use
ROADS FLAT acre
4.68

Impervious Total 4.68

Basin Total 9.74

Element Flows To:
Surface Interflow Groundwater

SD-31

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 10.11
Pervious Total	10.11
Impervious Land Use ROADS FLAT	acre 9.34
Impervious Total	9.34
Basin Total	19.45

Element Flows To:		
Surface	Interflow	Groundwater

SD-30

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.04

Pervious Total 0.04

Impervious Land Use acre
ROADS FLAT 0.03

Impervious Total 0.03

Basin Total 0.07

Element Flows To:
Surface Interflow Groundwater

SD-21

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.1
Pervious Total	2.1
Impervious Land Use ROADS FLAT	acre 1.94
Impervious Total	1.94
Basin Total	4.04

Element Flows To:		
Surface	Interflow	Groundwater

SD-20

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 3.24

Pervious Total 3.24

Impervious Land Use acre
ROADS FLAT 2.99

Impervious Total 2.99

Basin Total 6.23

Element Flows To:
Surface Interflow Groundwater

SD-14

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.83
Pervious Total	2.83
Impervious Land Use ROADS FLAT	acre 2.61
Impervious Total	2.61
Basin Total	5.44

Element Flows To: Surface	Interflow	Groundwater
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SD-6A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.64
Pervious Total	0.64
Impervious Land Use ROADS FLAT	acre 0.59
Impervious Total	0.59
Basin Total	1.23

Element Flows To: Surface	Interflow	Groundwater
------------------------------	-----------	-------------

SD-5A

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 1.68

Pervious Total 1.68

Impervious Land Use acre
ROADS FLAT 1.55

Impervious Total 1.55

Basin Total 3.23

Element Flows To:
Surface Interflow Groundwater

SD-4A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 5.54
Pervious Total	5.54
Impervious Land Use ROADS FLAT	acre 5.11
Impervious Total	5.11
Basin Total	10.65

Element Flows To: Surface	Interflow	Groundwater
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SD-3A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 6.18
Pervious Total	6.18
Impervious Land Use ROADS FLAT	acre 5.7
Impervious Total	5.7
Basin Total	11.88

Element Flows To: Surface	Interflow	Groundwater
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SD-2A

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.63

Pervious Total 0.63

Impervious Land Use acre
ROADS FLAT 0.59

Impervious Total 0.59

Basin Total 1.22

Element Flows To:
Surface Interflow Groundwater

SD-1A

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.27

Pervious Total 0.27

Impervious Land Use acre
ROADS FLAT 0.25

Impervious Total 0.25

Basin Total 0.52

Element Flows To:
Surface Interflow Groundwater

OS-29

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.25
Pervious Total	1.25
Impervious Land Use ROADS FLAT	acre 1.15
Impervious Total	1.15
Basin Total	2.4

Element Flows To:		
Surface	Interflow	Groundwater

SD-48

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.3
Pervious Total	0.3
Impervious Land Use ROADS FLAT	acre 2.18
Impervious Total	2.18
Basin Total	2.48

Element Flows To: Surface	Interflow	Groundwater
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SD-34

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.59
Pervious Total	0.59
Impervious Land Use ROADS FLAT	acre 4.34
Impervious Total	4.34
Basin Total	4.93

Element Flows To: Surface	Interflow	Groundwater
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SD-33

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.11
Pervious Total	0.11
Impervious Land Use ROADS FLAT	acre 0.78
Impervious Total	0.78
Basin Total	0.89

Element Flows To: Surface	Interflow	Groundwater
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SD-32A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.1
Pervious Total	0.1
Impervious Land Use ROADS FLAT	acre 0.71
Impervious Total	0.71
Basin Total	0.81

Element Flows To: Surface	Interflow	Groundwater
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OS-31A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.2
Pervious Total	0.2
Impervious Land Use ROADS FLAT	acre 0.14
Impervious Total	0.14
Basin Total	0.34

Element Flows To:		
Surface	Interflow	Groundwater

SD-30A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.03
Pervious Total	0.03
Impervious Land Use ROADS FLAT	acre 0.2
Impervious Total	0.2
Basin Total	0.23

Element Flows To: Surface	Interflow	Groundwater
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SD-1

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.2
Pervious Total	0.2
Impervious Land Use ROADS FLAT	acre 1.45
Impervious Total	1.45
Basin Total	1.65

Element Flows To: Surface	Interflow	Groundwater
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SD-17

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.53
Pervious Total	0.53
Impervious Land Use ROADS FLAT	acre 0.48
Impervious Total	0.48
Basin Total	1.01

Element Flows To: Surface	Interflow	Groundwater
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SD-13

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.63
Pervious Total	0.63
Impervious Land Use ROADS FLAT	acre 0.58
Impervious Total	0.58
Basin Total	1.21

Element Flows To:		
Surface	Interflow	Groundwater

SD-8

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 1.79

Pervious Total 1.79

Impervious Land Use acre
ROADS FLAT 1.65

Impervious Total 1.65

Basin Total 3.44

Element Flows To:
Surface Interflow Groundwater

SD-51

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.64
Pervious Total	0.64
Impervious Land Use ROADS FLAT	acre 0.59
Impervious Total	0.59
Basin Total	1.23

Element Flows To: Surface	Interflow	Groundwater
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SD-50

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.79
Pervious Total	0.79
Impervious Land Use ROADS FLAT	acre 0.73
Impervious Total	0.73
Basin Total	1.52

Element Flows To: Surface	Interflow	Groundwater
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SD-200

Bypass: No

GroundWater: No

Pervious Land Use	acre
C, Forest, Steep	10.45
C, Lawn, Flat	0.11

Pervious Total 10.56

Impervious Land Use acre

Impervious Total 0

Basin Total 10.56

Element Flows To:		
Surface	Interflow	Groundwater

SD-8A

Bypass: No

GroundWater: No

Pervious Land Use acre

C, Forest, Steep 4.2

C, Lawn, Flat 0.04

Pervious Total 4.24

Impervious Land Use acre

Impervious Total 0

Basin Total 4.24

Element Flows To:

Surface

Interflow

Groundwater

SD-80

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.54

Pervious Total 0.54

Impervious Land Use acre
ROADS FLAT 0.5

Impervious Total 0.5

Basin Total 1.04

Element Flows To:
Surface Interflow Groundwater

SD-82

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 5.04
Pervious Total	5.04
Impervious Land Use ROADS FLAT	acre 4.65
Impervious Total	4.65
Basin Total	9.69

Element Flows To:		
Surface	Interflow	Groundwater

SD-18

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.72

Pervious Total 0.72

Impervious Land Use acre
ROADS FLAT 0.66

Impervious Total 0.66

Basin Total 1.38

Element Flows To:
Surface Interflow Groundwater

SD-12

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.25
Pervious Total	2.25
Impervious Land Use ROADS FLAT	acre 2.08
Impervious Total	2.08
Basin Total	4.33

Element Flows To:		
Surface	Interflow	Groundwater

SD-11

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.56
Pervious Total	0.56
Impervious Land Use ROADS FLAT	acre 0.52
Impervious Total	0.52
Basin Total	1.08

Element Flows To: Surface	Interflow	Groundwater
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SD-10

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.07
Pervious Total	2.07
Impervious Land Use ROADS FLAT	acre 1.91
Impervious Total	1.91
Basin Total	3.98

Element Flows To:		
Surface	Interflow	Groundwater

SD-7

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.56
Pervious Total	0.56
Impervious Land Use ROADS FLAT	acre 0.52
Impervious Total	0.52
Basin Total	1.08

Element Flows To: Surface	Interflow	Groundwater
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SD-6

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.39
Pervious Total	0.39
Impervious Land Use ROADS FLAT	acre 0.36
Impervious Total	0.36
Basin Total	0.75

Element Flows To: Surface	Interflow	Groundwater
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SD-5

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.26
Pervious Total	0.26
Impervious Land Use ROADS FLAT	acre 1.89
Impervious Total	1.89
Basin Total	2.15

Element Flows To: Surface	Interflow	Groundwater
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SD-4

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.46

Pervious Total 0.46

Impervious Land Use acre
ROADS FLAT 0.43

Impervious Total 0.43

Basin Total 0.89

Element Flows To:
Surface Interflow Groundwater

SD-3

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.13
Pervious Total	0.13
Impervious Land Use ROADS FLAT	acre 0.95
Impervious Total	0.95
Basin Total	1.08

Element Flows To: Surface	Interflow	Groundwater
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SD-2

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.28
Pervious Total	0.28
Impervious Land Use ROADS FLAT	acre 2.05
Impervious Total	2.05
Basin Total	2.33

Element Flows To: Surface	Interflow	Groundwater
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Mitigated Land Use

OS-62

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 3.04
Pervious Total	3.04
Impervious Land Use ROADS FLAT	acre 2.81
Impervious Total	2.81
Basin Total	5.85

Element Flows To:		
Surface	Interflow	Groundwater

OS-35

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.99

Pervious Total 0.99

Impervious Land Use acre
ROADS FLAT 0.91

Impervious Total 0.91

Basin Total 1.9

Element Flows To:
Surface Interflow Groundwater

OS-60

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 4.49

Pervious Total 4.49

Impervious Land Use acre
ROADS FLAT 4.15

Impervious Total 4.15

Basin Total 8.64

Element Flows To:
Surface Interflow Groundwater

OS-33

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.36

Pervious Total 0.36

Impervious Land Use acre
ROADS FLAT 0.33

Impervious Total 0.33

Basin Total 0.69

Element Flows To:
Surface Interflow Groundwater

OS-165

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 4.43
Pervious Total	4.43
Impervious Land Use ROADS FLAT	acre 4.09
Impervious Total	4.09
Basin Total	8.52

Element Flows To: Surface	Interflow	Groundwater
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OS-153

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 3.11
Pervious Total	3.11
Impervious Land Use ROADS FLAT	acre 2.87
Impervious Total	2.87
Basin Total	5.98

Element Flows To: Surface	Interflow	Groundwater
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Basin 7

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.15
Pervious Total	2.15
Impervious Land Use ROADS FLAT	acre 1.99
Impervious Total	1.99
Basin Total	4.14

Element Flows To:		
Surface	Interflow	Groundwater

OS-90

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 1.84

Pervious Total 1.84

Impervious Land Use acre
ROADS FLAT 1.7

Impervious Total 1.7

Basin Total 3.54

Element Flows To:
Surface Interflow Groundwater

OS-82

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 4.03

Pervious Total 4.03

Impervious Land Use acre
ROADS FLAT 3.27

Impervious Total 3.27

Basin Total 7.3

Element Flows To:
Surface Interflow Groundwater

OS-58

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.4
Pervious Total	1.4
Impervious Land Use ROADS FLAT	acre 1.29
Impervious Total	1.29
Basin Total	2.69

Element Flows To:		
Surface	Interflow	Groundwater

OS-31

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.67

Pervious Total 0.67

Impervious Land Use acre
ROADS FLAT 0.62

Impervious Total 0.62

Basin Total 1.29

Element Flows To:
Surface Interflow Groundwater

OS-22

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 4.52
Pervious Total	4.52
Impervious Land Use ROADS FLAT	acre 4.17
Impervious Total	4.17
Basin Total	8.69

Element Flows To: Surface	Interflow	Groundwater
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CBSD-32

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 5.06
Pervious Total	5.06
Impervious Land Use ROADS FLAT	acre 4.68
Impervious Total	4.68
Basin Total	9.74

Element Flows To: Surface	Interflow	Groundwater
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SD-31

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 10.11
Pervious Total	10.11
Impervious Land Use ROADS FLAT	acre 9.34
Impervious Total	9.34
Basin Total	19.45

Element Flows To: Surface	Interflow	Groundwater
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SD-30

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.04
Pervious Total	0.04
Impervious Land Use ROADS FLAT	acre 0.03
Impervious Total	0.03
Basin Total	0.07

Element Flows To: Surface	Interflow	Groundwater
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SD-21

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.1
Pervious Total	2.1
Impervious Land Use ROADS FLAT	acre 1.94
Impervious Total	1.94
Basin Total	4.04

Element Flows To: Surface	Interflow	Groundwater
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SD-20

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 3.24

Pervious Total 3.24

Impervious Land Use acre
ROADS FLAT 2.99

Impervious Total 2.99

Basin Total 6.23

Element Flows To:
Surface Interflow Groundwater

SD-14

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.83
Pervious Total	2.83
Impervious Land Use ROADS FLAT	acre 2.61
Impervious Total	2.61
Basin Total	5.44

Element Flows To: Surface	Interflow	Groundwater
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SD-6A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.64
Pervious Total	0.64
Impervious Land Use ROADS FLAT	acre 0.59
Impervious Total	0.59
Basin Total	1.23

Element Flows To:		
Surface	Interflow	Groundwater

SD-5A

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 1.68

Pervious Total 1.68

Impervious Land Use acre
ROADS FLAT 1.55

Impervious Total 1.55

Basin Total 3.23

Element Flows To:
Surface Interflow Groundwater

SD-4A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 5.54
Pervious Total	5.54
Impervious Land Use ROADS FLAT	acre 5.11
Impervious Total	5.11
Basin Total	10.65

Element Flows To:		
Surface	Interflow	Groundwater

SD-3A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 6.18
Pervious Total	6.18
Impervious Land Use ROADS FLAT	acre 5.7
Impervious Total	5.7
Basin Total	11.88

Element Flows To:		
Surface	Interflow	Groundwater

SD-2A

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.63

Pervious Total 0.63

Impervious Land Use acre
ROADS FLAT 0.59

Impervious Total 0.59

Basin Total 1.22

Element Flows To:
Surface Interflow Groundwater

SD-1A

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.27

Pervious Total 0.27

Impervious Land Use acre
ROADS FLAT 0.25

Impervious Total 0.25

Basin Total 0.52

Element Flows To:
Surface Interflow Groundwater

OS-29

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.25
Pervious Total	1.25
Impervious Land Use ROADS FLAT	acre 1.15
Impervious Total	1.15
Basin Total	2.4

Element Flows To:		
Surface	Interflow	Groundwater

SD-48

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.3
Pervious Total	0.3
Impervious Land Use ROADS FLAT	acre 2.18
Impervious Total	2.18
Basin Total	2.48

Element Flows To: Surface	Interflow	Groundwater
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SD-34

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.59
Pervious Total	0.59
Impervious Land Use ROADS FLAT	acre 4.34
Impervious Total	4.34
Basin Total	4.93

Element Flows To:		
Surface	Interflow	Groundwater

SD-33

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.11

Pervious Total 0.11

Impervious Land Use acre
ROADS FLAT 0.78

Impervious Total 0.78

Basin Total 0.89

Element Flows To:
Surface Interflow Groundwater

SD-32A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.1
Pervious Total	0.1
Impervious Land Use ROADS FLAT	acre 0.71
Impervious Total	0.71
Basin Total	0.81

Element Flows To:		
Surface	Interflow	Groundwater

SD-31A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.2
Pervious Total	0.2
Impervious Land Use ROADS FLAT	acre 0.14
Impervious Total	0.14
Basin Total	0.34

Element Flows To:		
Surface	Interflow	Groundwater

SD-30A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.03
Pervious Total	0.03
Impervious Land Use ROADS FLAT	acre 0.2
Impervious Total	0.2
Basin Total	0.23

Element Flows To:		
Surface	Interflow	Groundwater

OS-21

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 5.27
Pervious Total	5.27
Impervious Land Use ROADS FLAT	acre 4.87
Impervious Total	4.87
Basin Total	10.14

Element Flows To: Surface	Interflow	Groundwater
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OS-20

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.11

Pervious Total 2.11

Impervious Land Use acre
ROADS FLAT 1.95

Impervious Total 1.95

Basin Total 4.06

Element Flows To:
Surface Interflow Groundwater

OS-19

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.62

Pervious Total 0.62

Impervious Land Use acre
ROADS FLAT 0.57

Impervious Total 0.57

Basin Total 1.19

Element Flows To:
Surface Interflow Groundwater

OS-18

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.47
Pervious Total	1.47
Impervious Land Use ROADS FLAT	acre 1.36
Impervious Total	1.36
Basin Total	2.83

Element Flows To: Surface	Interflow	Groundwater
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OS-17

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.67
Pervious Total	1.67
Impervious Land Use ROADS FLAT	acre 1.54
Impervious Total	1.54
Basin Total	3.21

Element Flows To:		
Surface	Interflow	Groundwater

OS-16

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.58

Pervious Total 0.58

Impervious Land Use acre
ROADS FLAT 0.54

Impervious Total 0.54

Basin Total 1.12

Element Flows To:
Surface Interflow Groundwater

OS-15

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 1.49

Pervious Total 1.49

Impervious Land Use acre
ROADS FLAT 1.37

Impervious Total 1.37

Basin Total 2.86

Element Flows To:
Surface Interflow Groundwater

OS-14

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.2
Pervious Total	2.2
Impervious Land Use ROADS FLAT	acre 2.03
Impervious Total	2.03
Basin Total	4.23

Element Flows To: Surface	Interflow	Groundwater
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OS-13

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.27
Pervious Total	2.27
Impervious Land Use ROADS FLAT	acre 2.09
Impervious Total	2.09
Basin Total	4.36

Element Flows To:		
Surface	Interflow	Groundwater

OS-12

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.78
Pervious Total	0.78
Impervious Land Use ROADS FLAT	acre 0.72
Impervious Total	0.72
Basin Total	1.5

Element Flows To:		
Surface	Interflow	Groundwater

OS-11A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.8
Pervious Total	0.8
Impervious Land Use ROADS FLAT	acre 0.73
Impervious Total	0.73
Basin Total	1.53

Element Flows To: Surface	Interflow	Groundwater
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OS-9

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.6
Pervious Total	1.6
Impervious Land Use ROADS FLAT	acre 1.47
Impervious Total	1.47
Basin Total	3.07

Element Flows To:		
Surface	Interflow	Groundwater

OS-8

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.13

Pervious Total 2.13

Impervious Land Use acre
ROADS FLAT 1.96

Impervious Total 1.96

Basin Total 4.09

Element Flows To:
Surface Interflow Groundwater

OS-7

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.63
Pervious Total	0.63
Impervious Land Use ROADS FLAT	acre 0.58
Impervious Total	0.58
Basin Total	1.21

Element Flows To: Surface	Interflow	Groundwater
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OS-5

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.01

Pervious Total 0.01

Impervious Land Use acre
ROADS FLAT 0.07

Impervious Total 0.07

Basin Total 0.08

Element Flows To:
Surface Interflow Groundwater

OS-2

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.02

Pervious Total 0.02

Impervious Land Use acre
ROADS FLAT 0.16

Impervious Total 0.16

Basin Total 0.18

Element Flows To:
Surface Interflow Groundwater

SD-1

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.2
Pervious Total	0.2
Impervious Land Use ROADS FLAT	acre 1.45
Impervious Total	1.45
Basin Total	1.65

Element Flows To:		
Surface	Interflow	Groundwater

SD-8

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.79
Pervious Total	1.79
Impervious Land Use ROADS FLAT	acre 1.65
Impervious Total	1.65
Basin Total	3.44

Element Flows To: Surface	Interflow	Groundwater
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SD-51

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.64
Pervious Total	0.64
Impervious Land Use ROADS FLAT	acre 0.59
Impervious Total	0.59
Basin Total	1.23

Element Flows To: Surface	Interflow	Groundwater
------------------------------	-----------	-------------

SD-50

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.79

Pervious Total 0.79

Impervious Land Use acre
ROADS FLAT 0.73

Impervious Total 0.73

Basin Total 1.52

Element Flows To:
Surface Interflow Groundwater

SD-200

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
C, Forest, Steep	10.45
C, Lawn, Flat	0.11
Pervious Total	10.56
Impervious Land Use	acre
Impervious Total	0
Basin Total	10.56

Element Flows To:		
Surface	Interflow	Groundwater

SD-8A

Bypass: No

GroundWater: No

Pervious Land Use acre

C, Forest, Steep 4.2

C, Lawn, Flat 0.04

Pervious Total 4.24

Impervious Land Use acre

Impervious Total 0

Basin Total 4.24

Element Flows To:

Surface

Interflow

Groundwater

SD-80

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.54
Pervious Total	0.54
Impervious Land Use ROADS FLAT	acre 0.5
Impervious Total	0.5
Basin Total	1.04

Element Flows To:		
Surface	Interflow	Groundwater

SD-82

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 5.04
Pervious Total	5.04
Impervious Land Use ROADS FLAT	acre 4.65
Impervious Total	4.65
Basin Total	9.69

Element Flows To: Surface	Interflow	Groundwater
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SD-18

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.72

Pervious Total 0.72

Impervious Land Use acre
ROADS FLAT 0.66

Impervious Total 0.66

Basin Total 1.38

Element Flows To:
Surface Interflow Groundwater

SD-12

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.25

Pervious Total 2.25

Impervious Land Use acre
ROADS FLAT 2.08

Impervious Total 2.08

Basin Total 4.33

Element Flows To:
Surface Interflow Groundwater

SD-11

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.56
Pervious Total	0.56
Impervious Land Use ROADS FLAT	acre 0.52
Impervious Total	0.52
Basin Total	1.08

Element Flows To:		
Surface	Interflow	Groundwater

SD-10

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.07

Pervious Total 2.07

Impervious Land Use acre
ROADS FLAT 1.91

Impervious Total 1.91

Basin Total 3.98

Element Flows To:
Surface Interflow Groundwater

SD-7

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.56
Pervious Total	0.56
Impervious Land Use ROADS FLAT	acre 0.52
Impervious Total	0.52
Basin Total	1.08

Element Flows To: Surface	Interflow	Groundwater
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SD-6

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.39
Pervious Total	0.39
Impervious Land Use ROADS FLAT	acre 0.36
Impervious Total	0.36
Basin Total	0.75

Element Flows To: Surface	Interflow	Groundwater
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SD-5

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.26
Pervious Total	0.26
Impervious Land Use ROADS FLAT	acre 1.89
Impervious Total	1.89
Basin Total	2.15

Element Flows To: Surface	Interflow	Groundwater
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SD-4

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.46
Pervious Total	0.46
Impervious Land Use ROADS FLAT	acre 0.43
Impervious Total	0.43
Basin Total	0.89

Element Flows To: Surface	Interflow	Groundwater
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SD-3

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.13
Pervious Total	0.13
Impervious Land Use ROADS FLAT	acre 0.95
Impervious Total	0.95
Basin Total	1.08

Element Flows To: Surface	Interflow	Groundwater
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SD-2

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.28
Pervious Total	0.28
Impervious Land Use ROADS FLAT	acre 2.05
Impervious Total	2.05
Basin Total	2.33

Element Flows To: Surface	Interflow	Groundwater
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SD-17

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.53
Pervious Total	0.53
Impervious Land Use ROADS FLAT	acre 0.48
Impervious Total	0.48
Basin Total	1.01

Element Flows To: Surface	Interflow	Groundwater
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SD-13

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.63

Pervious Total 0.63

Impervious Land Use acre
ROADS FLAT 0.58

Impervious Total 0.58

Basin Total 1.21

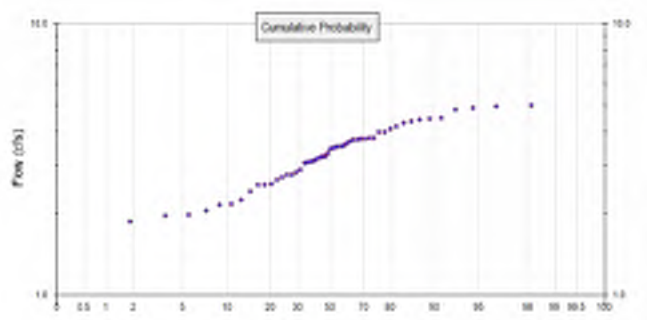
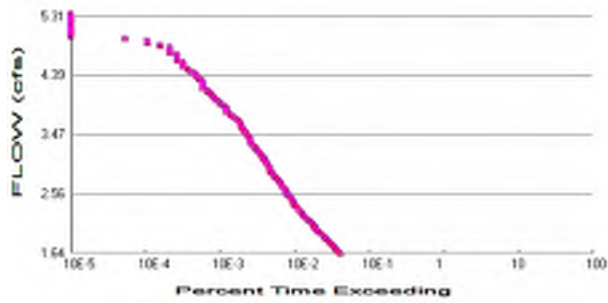
Element Flows To:
Surface Interflow Groundwater

Routing Elements
Predeveloped Routing

Mitigated Routing

Analysis Results

POC 1



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #1

Total Pervious Area: 3.04
 Total Impervious Area: 2.81

Mitigated Landuse Totals for POC #1

Total Pervious Area: 3.04
 Total Impervious Area: 2.81

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #1

Return Period	Flow(cfs)
2 year	3.285449
5 year	4.068877
10 year	4.505758
25 year	4.987572
50 year	5.305524
100 year	5.59475

Flow Frequency Return Periods for Mitigated. POC #1

Return Period	Flow(cfs)
2 year	3.285449
5 year	4.068877
10 year	4.505758
25 year	4.987572
50 year	5.305524
100 year	5.59475

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #1

Year	Predeveloped	Mitigated
1956	3.775	3.775
1957	4.428	4.428
1958	3.219	3.219
1959	3.522	3.522
1960	3.728	3.728
1961	2.541	2.541
1962	4.951	4.951
1963	4.469	4.469
1964	3.603	3.603
1965	3.755	3.755

1966	3.791	3.791
1967	2.142	2.142
1968	3.553	3.553
1969	3.483	3.483
1970	2.828	2.828
1971	4.983	4.983
1972	4.311	4.311
1973	3.692	3.692
1974	3.788	3.788
1975	3.180	3.180
1976	3.987	3.987
1977	2.721	2.721
1978	4.890	4.890
1979	3.129	3.129
1980	2.764	2.764
1981	3.536	3.536
1982	4.098	4.098
1983	3.249	3.249
1984	3.102	3.102
1985	1.964	1.964
1986	3.748	3.748
1987	2.553	2.553
1988	3.991	3.991
1989	3.244	3.244
1990	4.499	4.499
1991	2.661	2.661
1992	1.977	1.977
1993	2.156	2.156
1994	3.076	3.076
1995	2.403	2.403
1996	3.063	3.063
1997	3.508	3.508
1998	2.044	2.044
1999	2.783	2.783
2000	2.572	2.572
2001	2.246	2.246
2002	2.893	2.893
2003	4.841	4.841
2004	4.368	4.368
2005	3.348	3.348
2006	3.446	3.446
2007	4.187	4.187
2008	1.863	1.863
2009	1.705	1.705

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	4.9830	4.9830
2	4.9511	4.9511
3	4.8899	4.8899
4	4.8412	4.8412
5	4.4992	4.4992
6	4.4689	4.4689
7	4.4281	4.4281
8	4.3681	4.3681
9	4.3112	4.3112
10	4.1873	4.1873

11	4.0978	4.0978
12	3.9914	3.9914
13	3.9872	3.9872
14	3.7905	3.7905
15	3.7877	3.7877
16	3.7751	3.7751
17	3.7548	3.7548
18	3.7481	3.7481
19	3.7278	3.7278
20	3.6916	3.6916
21	3.6029	3.6029
22	3.5525	3.5525
23	3.5362	3.5362
24	3.5216	3.5216
25	3.5081	3.5081
26	3.4826	3.4826
27	3.4458	3.4458
28	3.3475	3.3475
29	3.2494	3.2494
30	3.2443	3.2443
31	3.2193	3.2193
32	3.1800	3.1800
33	3.1290	3.1290
34	3.1021	3.1021
35	3.0761	3.0761
36	3.0630	3.0630
37	2.8930	2.8930
38	2.8279	2.8279
39	2.7826	2.7826
40	2.7638	2.7638
41	2.7207	2.7207
42	2.6610	2.6610
43	2.5720	2.5720
44	2.5533	2.5533
45	2.5409	2.5409
46	2.4032	2.4032
47	2.2457	2.2457
48	2.1564	2.1564
49	2.1422	2.1422
50	2.0441	2.0441
51	1.9765	1.9765
52	1.9637	1.9637
53	1.8634	1.8634
54	1.7050	1.7050

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.6427	769	769	100	Pass
1.6797	722	722	100	Pass
1.7167	671	671	100	Pass
1.7537	628	628	100	Pass
1.7907	585	585	100	Pass
1.8277	550	550	100	Pass
1.8647	511	511	100	Pass
1.9017	474	474	100	Pass
1.9387	434	434	100	Pass
1.9757	395	395	100	Pass
2.0127	375	375	100	Pass
2.0497	356	356	100	Pass
2.0867	335	335	100	Pass
2.1237	318	318	100	Pass
2.1607	291	291	100	Pass
2.1977	269	269	100	Pass
2.2347	247	247	100	Pass
2.2717	235	235	100	Pass
2.3087	217	217	100	Pass
2.3457	209	209	100	Pass
2.3827	197	197	100	Pass
2.4197	186	186	100	Pass
2.4567	178	178	100	Pass
2.4937	171	171	100	Pass
2.5307	163	163	100	Pass
2.5677	151	151	100	Pass
2.6047	145	145	100	Pass
2.6417	140	140	100	Pass
2.6787	130	130	100	Pass
2.7157	126	126	100	Pass
2.7527	120	120	100	Pass
2.7897	112	112	100	Pass
2.8267	103	103	100	Pass
2.8637	98	98	100	Pass
2.9007	93	93	100	Pass
2.9377	89	89	100	Pass
2.9747	88	88	100	Pass
3.0116	83	83	100	Pass
3.0486	79	79	100	Pass
3.0856	76	76	100	Pass
3.1226	73	73	100	Pass
3.1596	68	68	100	Pass
3.1966	65	65	100	Pass
3.2336	61	61	100	Pass
3.2706	57	57	100	Pass
3.3076	53	53	100	Pass
3.3446	49	49	100	Pass
3.3816	48	48	100	Pass
3.4186	48	48	100	Pass
3.4556	46	46	100	Pass
3.4926	43	43	100	Pass
3.5296	41	41	100	Pass
3.5666	38	38	100	Pass

3.6036	37	37	100	Pass
3.6406	36	36	100	Pass
3.6776	35	35	100	Pass
3.7146	32	32	100	Pass
3.7516	29	29	100	Pass
3.7886	26	26	100	Pass
3.8256	23	23	100	Pass
3.8626	23	23	100	Pass
3.8996	23	23	100	Pass
3.9366	21	21	100	Pass
3.9736	19	19	100	Pass
4.0106	17	17	100	Pass
4.0476	16	16	100	Pass
4.0846	15	15	100	Pass
4.1216	14	14	100	Pass
4.1586	13	13	100	Pass
4.1956	11	11	100	Pass
4.2326	11	11	100	Pass
4.2696	11	11	100	Pass
4.3066	11	11	100	Pass
4.3436	10	10	100	Pass
4.3806	9	9	100	Pass
4.4176	9	9	100	Pass
4.4546	8	8	100	Pass
4.4916	7	7	100	Pass
4.5286	6	6	100	Pass
4.5656	6	6	100	Pass
4.6026	6	6	100	Pass
4.6396	5	5	100	Pass
4.6766	5	5	100	Pass
4.7136	5	5	100	Pass
4.7506	4	4	100	Pass
4.7876	4	4	100	Pass
4.8246	4	4	100	Pass
4.8615	3	3	100	Pass
4.8985	2	2	100	Pass
4.9355	2	2	100	Pass
4.9725	1	1	100	Pass
5.0095	0	0	100	Pass
5.0465	0	0	0	Pass
5.0835	0	0	0	Pass
5.1205	0	0	0	Pass
5.1575	0	0	0	Pass
5.1945	0	0	0	Pass
5.2315	0	0	0	Pass
5.2685	0	0	0	Pass
5.3055	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #1

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

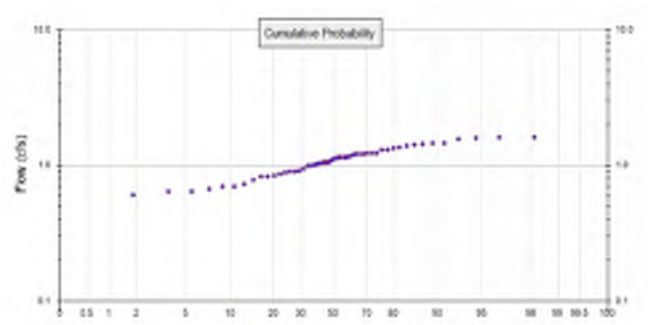
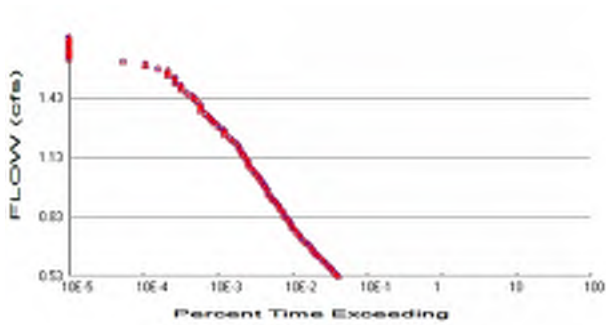
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 2



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #2

Total Pervious Area: 0.99
Total Impervious Area: 0.91

Mitigated Landuse Totals for POC #2

Total Pervious Area: 0.99
Total Impervious Area: 0.91

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #2

Return Period	Flow(cfs)
2 year	1.0662
5 year	1.320717
10 year	1.462671
25 year	1.61924
50 year	1.72257
100 year	1.816569

Flow Frequency Return Periods for Mitigated. POC #2

Return Period	Flow(cfs)
2 year	1.0662
5 year	1.320717
10 year	1.462671
25 year	1.61924
50 year	1.72257
100 year	1.816569

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #2

Year	Predeveloped	Mitigated
1956	1.226	1.226
1957	1.437	1.437
1958	1.045	1.045
1959	1.143	1.143
1960	1.210	1.210
1961	0.825	0.825
1962	1.607	1.607
1963	1.451	1.451
1964	1.169	1.169
1965	1.219	1.219
1966	1.231	1.231

1967	0.695	0.695
1968	1.153	1.153
1969	1.131	1.131
1970	0.917	0.917
1971	1.618	1.618
1972	1.400	1.400
1973	1.198	1.198
1974	1.230	1.230
1975	1.032	1.032
1976	1.294	1.294
1977	0.883	0.883
1978	1.587	1.587
1979	1.016	1.016
1980	0.897	0.897
1981	1.148	1.148
1982	1.330	1.330
1983	1.055	1.055
1984	1.007	1.007
1985	0.637	0.637
1986	1.217	1.217
1987	0.829	0.829
1988	1.296	1.296
1989	1.053	1.053
1990	1.461	1.461
1991	0.864	0.864
1992	0.641	0.641
1993	0.699	0.699
1994	0.998	0.998
1995	0.779	0.779
1996	0.993	0.993
1997	1.138	1.138
1998	0.663	0.663
1999	0.903	0.903
2000	0.835	0.835
2001	0.728	0.728
2002	0.937	0.937
2003	1.572	1.572
2004	1.418	1.418
2005	1.086	1.086
2006	1.118	1.118
2007	1.359	1.359
2008	0.604	0.604
2009	0.553	0.553

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	1.6176	1.6176
2	1.6074	1.6074
3	1.5870	1.5870
4	1.5717	1.5717
5	1.4606	1.4606
6	1.4507	1.4507
7	1.4372	1.4372
8	1.4179	1.4179
9	1.3997	1.3997
10	1.3593	1.3593
11	1.3298	1.3298

12	1.2955	1.2955
13	1.2942	1.2942
14	1.2305	1.2305
15	1.2296	1.2296
16	1.2256	1.2256
17	1.2187	1.2187
18	1.2165	1.2165
19	1.2102	1.2102
20	1.1981	1.1981
21	1.1692	1.1692
22	1.1531	1.1531
23	1.1476	1.1476
24	1.1432	1.1432
25	1.1384	1.1384
26	1.1306	1.1306
27	1.1184	1.1184
28	1.0865	1.0865
29	1.0545	1.0545
30	1.0529	1.0529
31	1.0446	1.0446
32	1.0321	1.0321
33	1.0156	1.0156
34	1.0069	1.0069
35	0.9983	0.9983
36	0.9932	0.9932
37	0.9374	0.9374
38	0.9174	0.9174
39	0.9030	0.9030
40	0.8970	0.8970
41	0.8829	0.8829
42	0.8636	0.8636
43	0.8346	0.8346
44	0.8286	0.8286
45	0.8248	0.8248
46	0.7791	0.7791
47	0.7283	0.7283
48	0.6994	0.6994
49	0.6950	0.6950
50	0.6631	0.6631
51	0.6412	0.6412
52	0.6368	0.6368
53	0.6044	0.6044
54	0.5530	0.5530

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.5331	768	768	100	Pass
0.5451	720	720	100	Pass
0.5571	670	670	100	Pass
0.5691	628	628	100	Pass
0.5812	584	584	100	Pass
0.5932	550	550	100	Pass
0.6052	510	510	100	Pass
0.6172	473	473	100	Pass
0.6292	430	430	100	Pass
0.6412	395	395	100	Pass
0.6532	375	375	100	Pass
0.6653	356	356	100	Pass
0.6773	335	335	100	Pass
0.6893	318	318	100	Pass
0.7013	291	291	100	Pass
0.7133	269	269	100	Pass
0.7253	247	247	100	Pass
0.7374	235	235	100	Pass
0.7494	217	217	100	Pass
0.7614	209	209	100	Pass
0.7734	197	197	100	Pass
0.7854	186	186	100	Pass
0.7974	178	178	100	Pass
0.8094	171	171	100	Pass
0.8215	163	163	100	Pass
0.8335	151	151	100	Pass
0.8455	145	145	100	Pass
0.8575	140	140	100	Pass
0.8695	130	130	100	Pass
0.8815	126	126	100	Pass
0.8935	120	120	100	Pass
0.9056	112	112	100	Pass
0.9176	103	103	100	Pass
0.9296	98	98	100	Pass
0.9416	93	93	100	Pass
0.9536	89	89	100	Pass
0.9656	88	88	100	Pass
0.9776	83	83	100	Pass
0.9897	79	79	100	Pass
1.0017	76	76	100	Pass
1.0137	73	73	100	Pass
1.0257	68	68	100	Pass
1.0377	65	65	100	Pass
1.0497	61	61	100	Pass
1.0618	57	57	100	Pass
1.0738	53	53	100	Pass
1.0858	49	49	100	Pass
1.0978	48	48	100	Pass
1.1098	48	48	100	Pass
1.1218	46	46	100	Pass
1.1338	43	43	100	Pass
1.1459	41	41	100	Pass
1.1579	38	38	100	Pass

1.1699	38	38	100	Pass
1.1819	36	36	100	Pass
1.1939	35	35	100	Pass
1.2059	32	32	100	Pass
1.2179	29	29	100	Pass
1.2300	27	27	100	Pass
1.2420	23	23	100	Pass
1.2540	23	23	100	Pass
1.2660	23	23	100	Pass
1.2780	21	21	100	Pass
1.2900	19	19	100	Pass
1.3021	17	17	100	Pass
1.3141	16	16	100	Pass
1.3261	15	15	100	Pass
1.3381	14	14	100	Pass
1.3501	13	13	100	Pass
1.3621	11	11	100	Pass
1.3741	11	11	100	Pass
1.3862	11	11	100	Pass
1.3982	11	11	100	Pass
1.4102	10	10	100	Pass
1.4222	9	9	100	Pass
1.4342	9	9	100	Pass
1.4462	8	8	100	Pass
1.4582	7	7	100	Pass
1.4703	6	6	100	Pass
1.4823	6	6	100	Pass
1.4943	6	6	100	Pass
1.5063	5	5	100	Pass
1.5183	5	5	100	Pass
1.5303	5	5	100	Pass
1.5423	4	4	100	Pass
1.5544	4	4	100	Pass
1.5664	4	4	100	Pass
1.5784	3	3	100	Pass
1.5904	2	2	100	Pass
1.6024	2	2	100	Pass
1.6144	1	1	100	Pass
1.6265	0	0	100	Pass
1.6385	0	0	0	Pass
1.6505	0	0	0	Pass
1.6625	0	0	0	Pass
1.6745	0	0	0	Pass
1.6865	0	0	0	Pass
1.6985	0	0	0	Pass
1.7106	0	0	0	Pass
1.7226	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #2

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

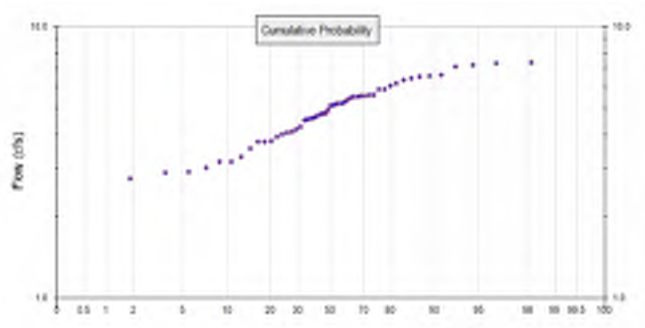
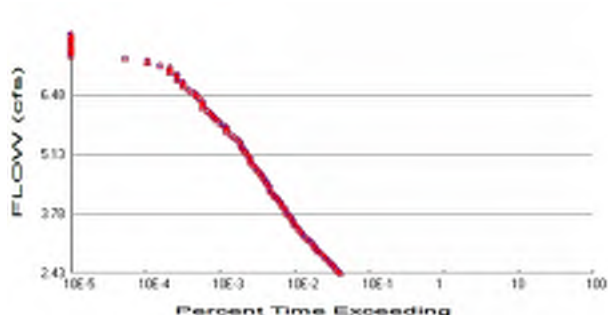
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 3



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #3

Total Pervious Area: 4.49
 Total Impervious Area: 4.15

Mitigated Landuse Totals for POC #3

Total Pervious Area: 4.49
 Total Impervious Area: 4.15

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #3

Return Period	Flow(cfs)
2 year	4.852304
5 year	6.009371
10 year	6.654614
25 year	7.366222
50 year	7.835817
100 year	8.262985

Flow Frequency Return Periods for Mitigated. POC #3

Return Period	Flow(cfs)
2 year	4.852304
5 year	6.009371
10 year	6.654614
25 year	7.366222
50 year	7.835817
100 year	8.262985

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #3

Year	Predeveloped	Mitigated
1956	5.576	5.576
1957	6.540	6.540
1958	4.755	4.755
1959	5.201	5.201
1960	5.506	5.506
1961	3.753	3.753
1962	7.312	7.312
1963	6.600	6.600
1964	5.321	5.321
1965	5.545	5.545
1966	5.598	5.598

1967	3.164	3.164
1968	5.247	5.247
1969	5.143	5.143
1970	4.176	4.176
1971	7.360	7.360
1972	6.367	6.367
1973	5.452	5.452
1974	5.594	5.594
1975	4.697	4.697
1976	5.889	5.889
1977	4.018	4.018
1978	7.222	7.222
1979	4.621	4.621
1980	4.082	4.082
1981	5.223	5.223
1982	6.052	6.052
1983	4.799	4.799
1984	4.581	4.581
1985	2.900	2.900
1986	5.536	5.536
1987	3.771	3.771
1988	5.895	5.895
1989	4.791	4.791
1990	6.645	6.645
1991	3.930	3.930
1992	2.919	2.919
1993	3.185	3.185
1994	4.543	4.543
1995	3.549	3.549
1996	4.524	4.524
1997	5.181	5.181
1998	3.019	3.019
1999	4.110	4.110
2000	3.799	3.799
2001	3.317	3.317
2002	4.273	4.273
2003	7.150	7.150
2004	6.451	6.451
2005	4.944	4.944
2006	5.089	5.089
2007	6.184	6.184
2008	2.752	2.752
2009	2.518	2.518

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	7.3595	7.3595
2	7.3124	7.3124
3	7.2219	7.2219
4	7.1500	7.1500
5	6.6449	6.6449
6	6.6002	6.6002
7	6.5399	6.5399
8	6.4513	6.4513
9	6.3672	6.3672
10	6.1843	6.1843
11	6.0521	6.0521

12	5.8950	5.8950
13	5.8888	5.8888
14	5.5983	5.5983
15	5.5941	5.5941
16	5.5755	5.5755
17	5.5455	5.5455
18	5.5356	5.5356
19	5.5056	5.5056
20	5.4522	5.4522
21	5.3211	5.3211
22	5.2468	5.2468
23	5.2227	5.2227
24	5.2012	5.2012
25	5.1811	5.1811
26	5.1434	5.1434
27	5.0892	5.0892
28	4.9440	4.9440
29	4.7991	4.7991
30	4.7915	4.7915
31	4.7547	4.7547
32	4.6965	4.6965
33	4.6213	4.6213
34	4.5815	4.5815
35	4.5432	4.5432
36	4.5237	4.5237
37	4.2726	4.2726
38	4.1765	4.1765
39	4.1096	4.1096
40	4.0819	4.0819
41	4.0182	4.0182
42	3.9301	3.9301
43	3.7985	3.7985
44	3.7710	3.7710
45	3.7528	3.7528
46	3.5493	3.5493
47	3.3167	3.3167
48	3.1847	3.1847
49	3.1638	3.1638
50	3.0190	3.0190
51	2.9191	2.9191
52	2.9002	2.9002
53	2.7520	2.7520
54	2.5182	2.5182

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.4262	769	769	100	Pass
2.4808	722	722	100	Pass
2.5354	671	671	100	Pass
2.5901	628	628	100	Pass
2.6447	585	585	100	Pass
2.6994	550	550	100	Pass
2.7540	510	510	100	Pass
2.8087	474	474	100	Pass
2.8633	432	432	100	Pass
2.9179	395	395	100	Pass
2.9726	375	375	100	Pass
3.0272	356	356	100	Pass
3.0819	335	335	100	Pass
3.1365	318	318	100	Pass
3.1912	291	291	100	Pass
3.2458	269	269	100	Pass
3.3004	247	247	100	Pass
3.3551	234	234	100	Pass
3.4097	217	217	100	Pass
3.4644	209	209	100	Pass
3.5190	196	196	100	Pass
3.5737	186	186	100	Pass
3.6283	178	178	100	Pass
3.6829	171	171	100	Pass
3.7376	163	163	100	Pass
3.7922	151	151	100	Pass
3.8469	145	145	100	Pass
3.9015	140	140	100	Pass
3.9562	130	130	100	Pass
4.0108	126	126	100	Pass
4.0654	120	120	100	Pass
4.1201	112	112	100	Pass
4.1747	103	103	100	Pass
4.2294	98	98	100	Pass
4.2840	92	92	100	Pass
4.3387	89	89	100	Pass
4.3933	88	88	100	Pass
4.4479	83	83	100	Pass
4.5026	79	79	100	Pass
4.5572	76	76	100	Pass
4.6119	73	73	100	Pass
4.6665	68	68	100	Pass
4.7212	65	65	100	Pass
4.7758	61	61	100	Pass
4.8304	57	57	100	Pass
4.8851	53	53	100	Pass
4.9397	49	49	100	Pass
4.9944	48	48	100	Pass
5.0490	48	48	100	Pass
5.1037	46	46	100	Pass
5.1583	43	43	100	Pass
5.2129	41	41	100	Pass
5.2676	38	38	100	Pass

5.3222	37	37	100	Pass
5.3769	36	36	100	Pass
5.4315	35	35	100	Pass
5.4862	32	32	100	Pass
5.5408	29	29	100	Pass
5.5955	26	26	100	Pass
5.6501	23	23	100	Pass
5.7047	23	23	100	Pass
5.7594	23	23	100	Pass
5.8140	21	21	100	Pass
5.8687	19	19	100	Pass
5.9233	17	17	100	Pass
5.9780	16	16	100	Pass
6.0326	15	15	100	Pass
6.0872	14	14	100	Pass
6.1419	13	13	100	Pass
6.1965	11	11	100	Pass
6.2512	11	11	100	Pass
6.3058	11	11	100	Pass
6.3605	11	11	100	Pass
6.4151	10	10	100	Pass
6.4697	9	9	100	Pass
6.5244	9	9	100	Pass
6.5790	8	8	100	Pass
6.6337	7	7	100	Pass
6.6883	6	6	100	Pass
6.7430	6	6	100	Pass
6.7976	6	6	100	Pass
6.8522	5	5	100	Pass
6.9069	5	5	100	Pass
6.9615	5	5	100	Pass
7.0162	4	4	100	Pass
7.0708	4	4	100	Pass
7.1255	4	4	100	Pass
7.1801	3	3	100	Pass
7.2347	2	2	100	Pass
7.2894	2	2	100	Pass
7.3440	1	1	100	Pass
7.3987	0	0	100	Pass
7.4533	0	0	0	Pass
7.5080	0	0	0	Pass
7.5626	0	0	0	Pass
7.6172	0	0	0	Pass
7.6719	0	0	0	Pass
7.7265	0	0	0	Pass
7.7812	0	0	0	Pass
7.8358	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #3

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

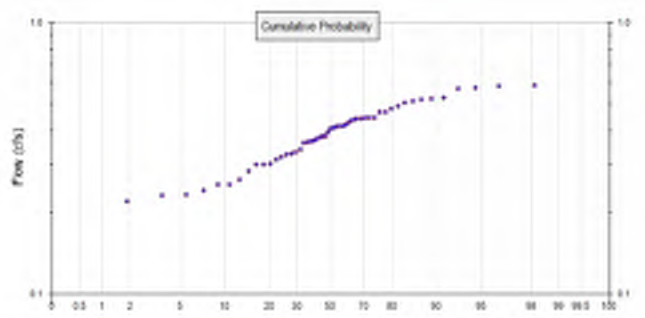
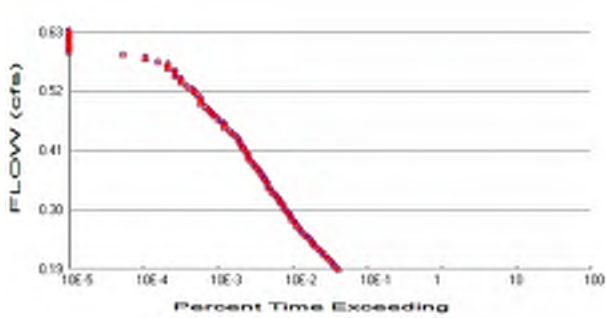
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 4



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #4

Total Pervious Area: 0.36
Total Impervious Area: 0.33

Mitigated Landuse Totals for POC #4

Total Pervious Area: 0.36
Total Impervious Area: 0.33

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #4

Return Period	Flow(cfs)
2 year	0.387044
5 year	0.479486
10 year	0.531049
25 year	0.587923
50 year	0.625459
100 year	0.659607

Flow Frequency Return Periods for Mitigated. POC #4

Return Period	Flow(cfs)
2 year	0.387044
5 year	0.479486
10 year	0.531049
25 year	0.587923
50 year	0.625459
100 year	0.659607

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #4

Year	Predeveloped	Mitigated
1956	0.445	0.445
1957	0.522	0.522
1958	0.379	0.379
1959	0.415	0.415
1960	0.439	0.439
1961	0.299	0.299
1962	0.584	0.584
1963	0.527	0.527
1964	0.424	0.424
1965	0.442	0.442
1966	0.447	0.447

1967	0.252	0.252
1968	0.419	0.419
1969	0.410	0.410
1970	0.333	0.333
1971	0.587	0.587
1972	0.508	0.508
1973	0.435	0.435
1974	0.446	0.446
1975	0.375	0.375
1976	0.470	0.470
1977	0.320	0.320
1978	0.576	0.576
1979	0.369	0.369
1980	0.326	0.326
1981	0.417	0.417
1982	0.483	0.483
1983	0.383	0.383
1984	0.366	0.366
1985	0.231	0.231
1986	0.442	0.442
1987	0.301	0.301
1988	0.470	0.470
1989	0.382	0.382
1990	0.530	0.530
1991	0.314	0.314
1992	0.233	0.233
1993	0.254	0.254
1994	0.362	0.362
1995	0.283	0.283
1996	0.360	0.360
1997	0.413	0.413
1998	0.241	0.241
1999	0.328	0.328
2000	0.303	0.303
2001	0.264	0.264
2002	0.340	0.340
2003	0.571	0.571
2004	0.515	0.515
2005	0.394	0.394
2006	0.406	0.406
2007	0.494	0.494
2008	0.219	0.219
2009	0.201	0.201

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	0.5873	0.5873
2	0.5836	0.5836
3	0.5761	0.5761
4	0.5707	0.5707
5	0.5303	0.5303
6	0.5267	0.5267
7	0.5217	0.5217
8	0.5148	0.5148
9	0.5082	0.5082
10	0.4935	0.4935
11	0.4827	0.4827

12	0.4703	0.4703
13	0.4699	0.4699
14	0.4468	0.4468
15	0.4464	0.4464
16	0.4450	0.4450
17	0.4425	0.4425
18	0.4416	0.4416
19	0.4394	0.4394
20	0.4349	0.4349
21	0.4244	0.4244
22	0.4186	0.4186
23	0.4166	0.4166
24	0.4150	0.4150
25	0.4132	0.4132
26	0.4105	0.4105
27	0.4060	0.4060
28	0.3944	0.3944
29	0.3828	0.3828
30	0.3822	0.3822
31	0.3792	0.3792
32	0.3747	0.3747
33	0.3687	0.3687
34	0.3655	0.3655
35	0.3624	0.3624
36	0.3604	0.3604
37	0.3400	0.3400
38	0.3330	0.3330
39	0.3278	0.3278
40	0.3257	0.3257
41	0.3205	0.3205
42	0.3135	0.3135
43	0.3030	0.3030
44	0.3008	0.3008
45	0.2995	0.2995
46	0.2827	0.2827
47	0.2643	0.2643
48	0.2538	0.2538
49	0.2523	0.2523
50	0.2407	0.2407
51	0.2327	0.2327
52	0.2311	0.2311
53	0.2194	0.2194
54	0.2007	0.2007

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1935	773	773	100	Pass
0.1979	732	732	100	Pass
0.2022	672	672	100	Pass
0.2066	634	634	100	Pass
0.2110	589	589	100	Pass
0.2153	551	551	100	Pass
0.2197	515	515	100	Pass
0.2241	473	473	100	Pass
0.2284	437	437	100	Pass
0.2328	403	403	100	Pass
0.2372	375	375	100	Pass
0.2415	357	357	100	Pass
0.2459	335	335	100	Pass
0.2502	318	318	100	Pass
0.2546	291	291	100	Pass
0.2590	269	269	100	Pass
0.2633	248	248	100	Pass
0.2677	237	237	100	Pass
0.2721	216	216	100	Pass
0.2764	209	209	100	Pass
0.2808	200	200	100	Pass
0.2851	186	186	100	Pass
0.2895	178	178	100	Pass
0.2939	172	172	100	Pass
0.2982	163	163	100	Pass
0.3026	152	152	100	Pass
0.3070	145	145	100	Pass
0.3113	140	140	100	Pass
0.3157	131	131	100	Pass
0.3200	126	126	100	Pass
0.3244	120	120	100	Pass
0.3288	112	112	100	Pass
0.3331	102	102	100	Pass
0.3375	98	98	100	Pass
0.3419	93	93	100	Pass
0.3462	89	89	100	Pass
0.3506	88	88	100	Pass
0.3550	83	83	100	Pass
0.3593	79	79	100	Pass
0.3637	76	76	100	Pass
0.3680	73	73	100	Pass
0.3724	68	68	100	Pass
0.3768	65	65	100	Pass
0.3811	61	61	100	Pass
0.3855	57	57	100	Pass
0.3899	53	53	100	Pass
0.3942	49	49	100	Pass
0.3986	48	48	100	Pass
0.4029	48	48	100	Pass
0.4073	46	46	100	Pass
0.4117	43	43	100	Pass
0.4160	41	41	100	Pass
0.4204	38	38	100	Pass

0.4248	38	38	100	Pass
0.4291	36	36	100	Pass
0.4335	35	35	100	Pass
0.4379	32	32	100	Pass
0.4422	29	29	100	Pass
0.4466	27	27	100	Pass
0.4509	23	23	100	Pass
0.4553	23	23	100	Pass
0.4597	23	23	100	Pass
0.4640	21	21	100	Pass
0.4684	19	19	100	Pass
0.4728	17	17	100	Pass
0.4771	16	16	100	Pass
0.4815	15	15	100	Pass
0.4858	14	14	100	Pass
0.4902	13	13	100	Pass
0.4946	11	11	100	Pass
0.4989	11	11	100	Pass
0.5033	11	11	100	Pass
0.5077	11	11	100	Pass
0.5120	10	10	100	Pass
0.5164	9	9	100	Pass
0.5207	9	9	100	Pass
0.5251	8	8	100	Pass
0.5295	7	7	100	Pass
0.5338	6	6	100	Pass
0.5382	6	6	100	Pass
0.5426	6	6	100	Pass
0.5469	5	5	100	Pass
0.5513	5	5	100	Pass
0.5557	5	5	100	Pass
0.5600	4	4	100	Pass
0.5644	4	4	100	Pass
0.5687	4	4	100	Pass
0.5731	3	3	100	Pass
0.5775	2	2	100	Pass
0.5818	2	2	100	Pass
0.5862	1	1	100	Pass
0.5906	0	0	100	Pass
0.5949	0	0	0	Pass
0.5993	0	0	0	Pass
0.6036	0	0	0	Pass
0.6080	0	0	0	Pass
0.6124	0	0	0	Pass
0.6167	0	0	0	Pass
0.6211	0	0	0	Pass
0.6255	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

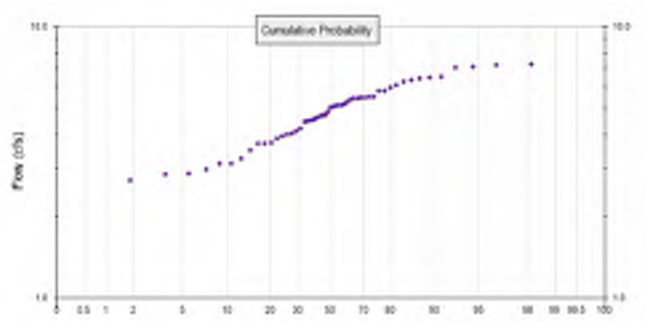
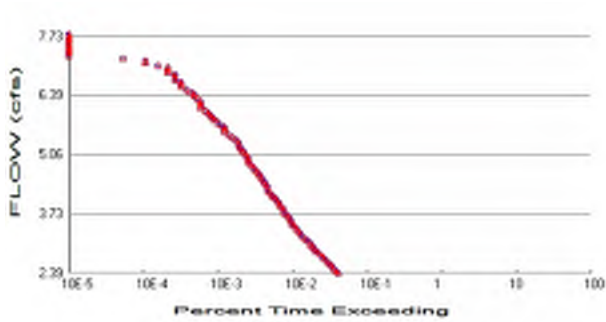
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 5



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #5

Total Pervious Area: 4.43
 Total Impervious Area: 4.09

Mitigated Landuse Totals for POC #5

Total Pervious Area: 4.43
 Total Impervious Area: 4.09

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #5

Return Period	Flow(cfs)
2 year	4.784138
5 year	5.925197
10 year	6.561533
25 year	7.263331
50 year	7.72646
100 year	8.147751

Flow Frequency Return Periods for Mitigated. POC #5

Return Period	Flow(cfs)
2 year	4.784138
5 year	5.925197
10 year	6.561533
25 year	7.263331
50 year	7.72646
100 year	8.147751

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #5

Year	Predeveloped	Mitigated
1956	5.498	5.498
1957	6.448	6.448
1958	4.688	4.688
1959	5.128	5.128
1960	5.429	5.429
1961	3.700	3.700
1962	7.210	7.210
1963	6.508	6.508
1964	5.246	5.246
1965	5.468	5.468
1966	5.520	5.520

1967	3.119	3.119
1968	5.173	5.173
1969	5.072	5.072
1970	4.118	4.118
1971	7.257	7.257
1972	6.278	6.278
1973	5.376	5.376
1974	5.516	5.516
1975	4.631	4.631
1976	5.806	5.806
1977	3.962	3.962
1978	7.121	7.121
1979	4.557	4.557
1980	4.025	4.025
1981	5.149	5.149
1982	5.967	5.967
1983	4.732	4.732
1984	4.517	4.517
1985	2.859	2.859
1986	5.458	5.458
1987	3.718	3.718
1988	5.812	5.812
1989	4.724	4.724
1990	6.552	6.552
1991	3.875	3.875
1992	2.878	2.878
1993	3.140	3.140
1994	4.479	4.479
1995	3.499	3.499
1996	4.459	4.459
1997	5.108	5.108
1998	2.976	2.976
1999	4.052	4.052
2000	3.745	3.745
2001	3.270	3.270
2002	4.211	4.211
2003	7.050	7.050
2004	6.361	6.361
2005	4.875	4.875
2006	5.018	5.018
2007	6.098	6.098
2008	2.713	2.713
2009	2.482	2.482

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	7.2566	7.2566
2	7.2102	7.2102
3	7.1205	7.1205
4	7.0501	7.0501
5	6.5520	6.5520
6	6.5079	6.5079
7	6.4482	6.4482
8	6.3610	6.3610
9	6.2783	6.2783
10	6.0978	6.0978
11	5.9671	5.9671

12	5.8124	5.8124
13	5.8063	5.8063
14	5.5200	5.5200
15	5.5158	5.5158
16	5.4976	5.4976
17	5.4678	5.4678
18	5.4580	5.4580
19	5.4287	5.4287
20	5.3756	5.3756
21	5.2463	5.2463
22	5.1733	5.1733
23	5.1493	5.1493
24	5.1284	5.1284
25	5.1083	5.1083
26	5.0715	5.0715
27	5.0178	5.0178
28	4.8747	4.8747
29	4.7317	4.7317
30	4.7242	4.7242
31	4.6877	4.6877
32	4.6306	4.6306
33	4.5565	4.5565
34	4.5173	4.5173
35	4.4794	4.4794
36	4.4594	4.4594
37	4.2113	4.2113
38	4.1175	4.1175
39	4.0519	4.0519
40	4.0247	4.0247
41	3.9617	3.9617
42	3.8749	3.8749
43	3.7452	3.7452
44	3.7180	3.7180
45	3.7002	3.7002
46	3.4987	3.4987
47	3.2697	3.2697
48	3.1396	3.1396
49	3.1192	3.1192
50	2.9763	2.9763
51	2.8779	2.8779
52	2.8590	2.8590
53	2.7131	2.7131
54	2.4825	2.4825

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.3921	769	769	100	Pass
2.4460	722	722	100	Pass
2.4998	671	671	100	Pass
2.5537	628	628	100	Pass
2.6076	584	584	100	Pass
2.6615	550	550	100	Pass
2.7154	511	511	100	Pass
2.7692	473	473	100	Pass
2.8231	432	432	100	Pass
2.8770	395	395	100	Pass
2.9309	375	375	100	Pass
2.9848	356	356	100	Pass
3.0387	334	334	100	Pass
3.0925	318	318	100	Pass
3.1464	291	291	100	Pass
3.2003	269	269	100	Pass
3.2542	247	247	100	Pass
3.3081	234	234	100	Pass
3.3620	217	217	100	Pass
3.4158	209	209	100	Pass
3.4697	197	197	100	Pass
3.5236	186	186	100	Pass
3.5775	178	178	100	Pass
3.6314	171	171	100	Pass
3.6853	163	163	100	Pass
3.7391	151	151	100	Pass
3.7930	145	145	100	Pass
3.8469	140	140	100	Pass
3.9008	130	130	100	Pass
3.9547	126	126	100	Pass
4.0086	120	120	100	Pass
4.0624	112	112	100	Pass
4.1163	103	103	100	Pass
4.1702	98	98	100	Pass
4.2241	92	92	100	Pass
4.2780	89	89	100	Pass
4.3318	88	88	100	Pass
4.3857	83	83	100	Pass
4.4396	79	79	100	Pass
4.4935	76	76	100	Pass
4.5474	73	73	100	Pass
4.6013	68	68	100	Pass
4.6551	65	65	100	Pass
4.7090	61	61	100	Pass
4.7629	57	57	100	Pass
4.8168	53	53	100	Pass
4.8707	49	49	100	Pass
4.9246	48	48	100	Pass
4.9784	48	48	100	Pass
5.0323	46	46	100	Pass
5.0862	43	43	100	Pass
5.1401	41	41	100	Pass
5.1940	38	38	100	Pass

5.2479	37	37	100	Pass
5.3017	36	36	100	Pass
5.3556	35	35	100	Pass
5.4095	32	32	100	Pass
5.4634	29	29	100	Pass
5.5173	26	26	100	Pass
5.5712	23	23	100	Pass
5.6250	23	23	100	Pass
5.6789	23	23	100	Pass
5.7328	21	21	100	Pass
5.7867	19	19	100	Pass
5.8406	17	17	100	Pass
5.8944	16	16	100	Pass
5.9483	15	15	100	Pass
6.0022	14	14	100	Pass
6.0561	13	13	100	Pass
6.1100	11	11	100	Pass
6.1639	11	11	100	Pass
6.2177	11	11	100	Pass
6.2716	11	11	100	Pass
6.3255	10	10	100	Pass
6.3794	9	9	100	Pass
6.4333	9	9	100	Pass
6.4872	8	8	100	Pass
6.5410	7	7	100	Pass
6.5949	6	6	100	Pass
6.6488	6	6	100	Pass
6.7027	6	6	100	Pass
6.7566	5	5	100	Pass
6.8105	5	5	100	Pass
6.8643	5	5	100	Pass
6.9182	4	4	100	Pass
6.9721	4	4	100	Pass
7.0260	4	4	100	Pass
7.0799	3	3	100	Pass
7.1337	2	2	100	Pass
7.1876	2	2	100	Pass
7.2415	1	1	100	Pass
7.2954	0	0	100	Pass
7.3493	0	0	0	Pass
7.4032	0	0	0	Pass
7.4570	0	0	0	Pass
7.5109	0	0	0	Pass
7.5648	0	0	0	Pass
7.6187	0	0	0	Pass
7.6726	0	0	0	Pass
7.7265	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #5

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

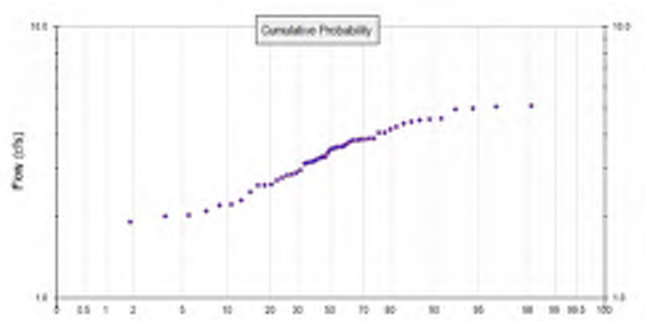
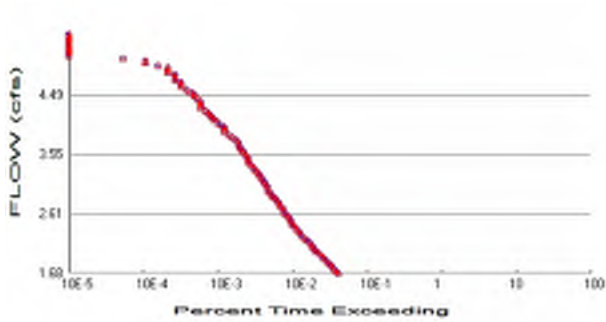
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 6



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #6

Total Pervious Area: 3.11
 Total Impervious Area: 2.87

Mitigated Landuse Totals for POC #6

Total Pervious Area: 3.11
 Total Impervious Area: 2.87

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #6

Return Period	Flow(cfs)
2 year	3.357657
5 year	4.158559
10 year	4.605204
25 year	5.097801
50 year	5.422876
100 year	5.718587

Flow Frequency Return Periods for Mitigated. POC #6

Return Period	Flow(cfs)
2 year	3.357657
5 year	4.158559
10 year	4.605204
25 year	5.097801
50 year	5.422876
100 year	5.718587

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #6

Year	Predeveloped	Mitigated
1956	3.859	3.859
1957	4.526	4.526
1958	3.290	3.290
1959	3.599	3.599
1960	3.810	3.810
1961	2.597	2.597
1962	5.061	5.061
1963	4.568	4.568
1964	3.682	3.682
1965	3.838	3.838
1966	3.874	3.874

1967	2.189	2.189
1968	3.631	3.631
1969	3.559	3.559
1970	2.890	2.890
1971	5.093	5.093
1972	4.406	4.406
1973	3.773	3.773
1974	3.871	3.871
1975	3.250	3.250
1976	4.075	4.075
1977	2.780	2.780
1978	4.997	4.997
1979	3.198	3.198
1980	2.825	2.825
1981	3.614	3.614
1982	4.188	4.188
1983	3.321	3.321
1984	3.170	3.170
1985	2.006	2.006
1986	3.831	3.831
1987	2.609	2.609
1988	4.079	4.079
1989	3.316	3.316
1990	4.599	4.599
1991	2.720	2.720
1992	2.020	2.020
1993	2.203	2.203
1994	3.144	3.144
1995	2.455	2.455
1996	3.130	3.130
1997	3.585	3.585
1998	2.089	2.089
1999	2.844	2.844
2000	2.628	2.628
2001	2.295	2.295
2002	2.955	2.955
2003	4.948	4.948
2004	4.464	4.464
2005	3.421	3.421
2006	3.522	3.522
2007	4.280	4.280
2008	1.904	1.904
2009	1.742	1.742

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	5.0930	5.0930
2	5.0605	5.0605
3	4.9974	4.9974
4	4.9482	4.9482
5	4.5985	4.5985
6	4.5675	4.5675
7	4.5256	4.5256
8	4.4645	4.4645
9	4.4065	4.4065
10	4.2797	4.2797
11	4.1879	4.1879

12	4.0794	4.0794
13	4.0751	4.0751
14	3.8742	3.8742
15	3.8713	3.8713
16	3.8585	3.8585
17	3.8375	3.8375
18	3.8307	3.8307
19	3.8101	3.8101
20	3.7728	3.7728
21	3.6820	3.6820
22	3.6308	3.6308
23	3.6139	3.6139
24	3.5993	3.5993
25	3.5851	3.5851
26	3.5594	3.5594
27	3.5217	3.5217
28	3.4212	3.4212
29	3.3209	3.3209
30	3.3156	3.3156
31	3.2899	3.2899
32	3.2500	3.2500
33	3.1979	3.1979
34	3.1704	3.1704
35	3.1438	3.1438
36	3.1295	3.1295
37	2.9552	2.9552
38	2.8897	2.8897
39	2.8438	2.8438
40	2.8247	2.8247
41	2.7804	2.7804
42	2.7196	2.7196
43	2.6285	2.6285
44	2.6094	2.6094
45	2.5970	2.5970
46	2.4553	2.4553
47	2.2947	2.2947
48	2.2034	2.2034
49	2.1891	2.1891
50	2.0888	2.0888
51	2.0197	2.0197
52	2.0065	2.0065
53	1.9041	1.9041
54	1.7422	1.7422

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.6788	769	769	100	Pass
1.7166	722	722	100	Pass
1.7545	671	671	100	Pass
1.7923	628	628	100	Pass
1.8301	583	583	100	Pass
1.8679	550	550	100	Pass
1.9057	511	511	100	Pass
1.9436	474	474	100	Pass
1.9814	432	432	100	Pass
2.0192	395	395	100	Pass
2.0570	375	375	100	Pass
2.0948	356	356	100	Pass
2.1327	335	335	100	Pass
2.1705	318	318	100	Pass
2.2083	291	291	100	Pass
2.2461	269	269	100	Pass
2.2839	247	247	100	Pass
2.3217	235	235	100	Pass
2.3596	217	217	100	Pass
2.3974	209	209	100	Pass
2.4352	196	196	100	Pass
2.4730	186	186	100	Pass
2.5108	178	178	100	Pass
2.5487	171	171	100	Pass
2.5865	163	163	100	Pass
2.6243	151	151	100	Pass
2.6621	145	145	100	Pass
2.6999	140	140	100	Pass
2.7378	130	130	100	Pass
2.7756	126	126	100	Pass
2.8134	120	120	100	Pass
2.8512	112	112	100	Pass
2.8890	103	103	100	Pass
2.9268	98	98	100	Pass
2.9647	93	93	100	Pass
3.0025	89	89	100	Pass
3.0403	88	88	100	Pass
3.0781	83	83	100	Pass
3.1159	79	79	100	Pass
3.1538	76	76	100	Pass
3.1916	73	73	100	Pass
3.2294	68	68	100	Pass
3.2672	65	65	100	Pass
3.3050	61	61	100	Pass
3.3428	57	57	100	Pass
3.3807	53	53	100	Pass
3.4185	49	49	100	Pass
3.4563	48	48	100	Pass
3.4941	48	48	100	Pass
3.5319	46	46	100	Pass
3.5698	43	43	100	Pass
3.6076	41	41	100	Pass
3.6454	38	38	100	Pass

3.6832	37	37	100	Pass
3.7210	36	36	100	Pass
3.7589	35	35	100	Pass
3.7967	32	32	100	Pass
3.8345	29	29	100	Pass
3.8723	26	26	100	Pass
3.9101	23	23	100	Pass
3.9479	23	23	100	Pass
3.9858	23	23	100	Pass
4.0236	21	21	100	Pass
4.0614	19	19	100	Pass
4.0992	17	17	100	Pass
4.1370	16	16	100	Pass
4.1749	15	15	100	Pass
4.2127	14	14	100	Pass
4.2505	13	13	100	Pass
4.2883	11	11	100	Pass
4.3261	11	11	100	Pass
4.3640	11	11	100	Pass
4.4018	11	11	100	Pass
4.4396	10	10	100	Pass
4.4774	9	9	100	Pass
4.5152	9	9	100	Pass
4.5530	8	8	100	Pass
4.5909	7	7	100	Pass
4.6287	6	6	100	Pass
4.6665	6	6	100	Pass
4.7043	6	6	100	Pass
4.7421	5	5	100	Pass
4.7800	5	5	100	Pass
4.8178	5	5	100	Pass
4.8556	4	4	100	Pass
4.8934	4	4	100	Pass
4.9312	4	4	100	Pass
4.9691	3	3	100	Pass
5.0069	2	2	100	Pass
5.0447	2	2	100	Pass
5.0825	1	1	100	Pass
5.1203	0	0	100	Pass
5.1581	0	0	0	Pass
5.1960	0	0	0	Pass
5.2338	0	0	0	Pass
5.2716	0	0	0	Pass
5.3094	0	0	0	Pass
5.3472	0	0	0	Pass
5.3851	0	0	0	Pass
5.4229	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #6

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

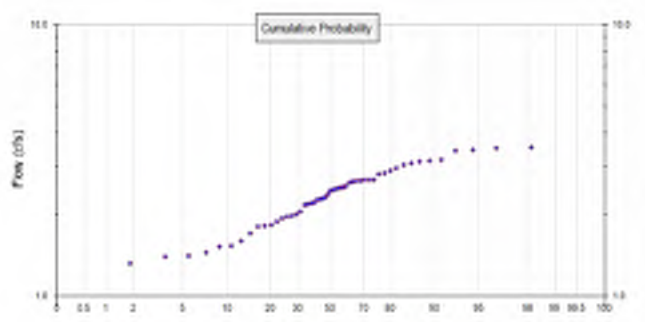
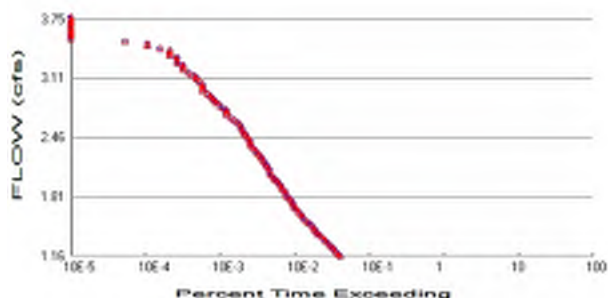
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 7



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #7

Total Pervious Area: 2.15
Total Impervious Area: 1.99

Mitigated Landuse Totals for POC #7

Total Pervious Area: 2.15
Total Impervious Area: 1.99

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #7

Return Period	Flow(cfs)
2 year	2.325541
5 year	2.87993
10 year	3.189076
25 year	3.530009
50 year	3.754988
100 year	3.959639

Flow Frequency Return Periods for Mitigated. POC #7

Return Period	Flow(cfs)
2 year	2.325541
5 year	2.87993
10 year	3.189076
25 year	3.530009
50 year	3.754988
100 year	3.959639

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #7

Year	Predeveloped	Mitigated
1956	2.672	2.672
1957	3.134	3.134
1958	2.279	2.279
1959	2.493	2.493
1960	2.638	2.638
1961	1.798	1.798
1962	3.504	3.504
1963	3.163	3.163
1964	2.550	2.550
1965	2.658	2.658
1966	2.683	2.683

1967	1.516	1.516
1968	2.514	2.514
1969	2.465	2.465
1970	2.002	2.002
1971	3.527	3.527
1972	3.051	3.051
1973	2.613	2.613
1974	2.681	2.681
1975	2.251	2.251
1976	2.822	2.822
1977	1.926	1.926
1978	3.461	3.461
1979	2.215	2.215
1980	1.956	1.956
1981	2.503	2.503
1982	2.901	2.901
1983	2.300	2.300
1984	2.196	2.196
1985	1.390	1.390
1986	2.653	2.653
1987	1.807	1.807
1988	2.825	2.825
1989	2.296	2.296
1990	3.184	3.184
1991	1.884	1.884
1992	1.399	1.399
1993	1.527	1.527
1994	2.177	2.177
1995	1.702	1.702
1996	2.168	2.168
1997	2.483	2.483
1998	1.447	1.447
1999	1.970	1.970
2000	1.821	1.821
2001	1.590	1.590
2002	2.049	2.049
2003	3.426	3.426
2004	3.092	3.092
2005	2.369	2.369
2006	2.439	2.439
2007	2.964	2.964
2008	1.319	1.319
2009	1.207	1.207

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	3.5269	3.5269
2	3.5042	3.5042
3	3.4611	3.4611
4	3.4264	3.4264
5	3.1844	3.1844
6	3.1630	3.1630
7	3.1343	3.1343
8	3.0917	3.0917
9	3.0513	3.0513
10	2.9637	2.9637
11	2.9006	2.9006

12	2.8251	2.8251
13	2.8221	2.8221
14	2.6828	2.6828
15	2.6808	2.6808
16	2.6719	2.6719
17	2.6576	2.6576
18	2.6529	2.6529
19	2.6384	2.6384
20	2.6130	2.6130
21	2.5502	2.5502
22	2.5145	2.5145
23	2.5031	2.5031
24	2.4926	2.4926
25	2.4832	2.4832
26	2.4649	2.4649
27	2.4390	2.4390
28	2.3694	2.3694
29	2.3000	2.3000
30	2.2964	2.2964
31	2.2788	2.2788
32	2.2508	2.2508
33	2.2147	2.2147
34	2.1957	2.1957
35	2.1774	2.1774
36	2.1685	2.1685
37	2.0485	2.0485
38	2.0018	2.0018
39	1.9696	1.9696
40	1.9563	1.9563
41	1.9258	1.9258
42	1.8835	1.8835
43	1.8205	1.8205
44	1.8073	1.8073
45	1.7984	1.7984
46	1.7015	1.7015
47	1.5898	1.5898
48	1.5266	1.5266
49	1.5164	1.5164
50	1.4470	1.4470
51	1.3992	1.3992
52	1.3902	1.3902
53	1.3191	1.3191
54	1.2071	1.2071

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.1628	770	770	100	Pass
1.1890	723	723	100	Pass
1.2151	671	671	100	Pass
1.2413	628	628	100	Pass
1.2675	585	585	100	Pass
1.2937	550	550	100	Pass
1.3199	512	512	100	Pass
1.3461	473	473	100	Pass
1.3722	434	434	100	Pass
1.3984	395	395	100	Pass
1.4246	375	375	100	Pass
1.4508	357	357	100	Pass
1.4770	335	335	100	Pass
1.5032	318	318	100	Pass
1.5293	291	291	100	Pass
1.5555	269	269	100	Pass
1.5817	247	247	100	Pass
1.6079	235	235	100	Pass
1.6341	217	217	100	Pass
1.6603	209	209	100	Pass
1.6865	197	197	100	Pass
1.7126	186	186	100	Pass
1.7388	178	178	100	Pass
1.7650	171	171	100	Pass
1.7912	163	163	100	Pass
1.8174	151	151	100	Pass
1.8436	145	145	100	Pass
1.8697	140	140	100	Pass
1.8959	130	130	100	Pass
1.9221	126	126	100	Pass
1.9483	120	120	100	Pass
1.9745	112	112	100	Pass
2.0007	103	103	100	Pass
2.0268	98	98	100	Pass
2.0530	92	92	100	Pass
2.0792	89	89	100	Pass
2.1054	88	88	100	Pass
2.1316	83	83	100	Pass
2.1578	79	79	100	Pass
2.1839	76	76	100	Pass
2.2101	73	73	100	Pass
2.2363	68	68	100	Pass
2.2625	65	65	100	Pass
2.2887	61	61	100	Pass
2.3149	57	57	100	Pass
2.3411	53	53	100	Pass
2.3672	49	49	100	Pass
2.3934	48	48	100	Pass
2.4196	48	48	100	Pass
2.4458	46	46	100	Pass
2.4720	43	43	100	Pass
2.4982	41	41	100	Pass
2.5243	38	38	100	Pass

2.5505	38	38	100	Pass
2.5767	36	36	100	Pass
2.6029	35	35	100	Pass
2.6291	32	32	100	Pass
2.6553	29	29	100	Pass
2.6814	26	26	100	Pass
2.7076	23	23	100	Pass
2.7338	23	23	100	Pass
2.7600	23	23	100	Pass
2.7862	21	21	100	Pass
2.8124	19	19	100	Pass
2.8385	17	17	100	Pass
2.8647	16	16	100	Pass
2.8909	15	15	100	Pass
2.9171	14	14	100	Pass
2.9433	13	13	100	Pass
2.9695	11	11	100	Pass
2.9957	11	11	100	Pass
3.0218	11	11	100	Pass
3.0480	11	11	100	Pass
3.0742	10	10	100	Pass
3.1004	9	9	100	Pass
3.1266	9	9	100	Pass
3.1528	8	8	100	Pass
3.1789	7	7	100	Pass
3.2051	6	6	100	Pass
3.2313	6	6	100	Pass
3.2575	6	6	100	Pass
3.2837	5	5	100	Pass
3.3099	5	5	100	Pass
3.3360	5	5	100	Pass
3.3622	4	4	100	Pass
3.3884	4	4	100	Pass
3.4146	4	4	100	Pass
3.4408	3	3	100	Pass
3.4670	2	2	100	Pass
3.4931	2	2	100	Pass
3.5193	1	1	100	Pass
3.5455	0	0	100	Pass
3.5717	0	0	0	Pass
3.5979	0	0	0	Pass
3.6241	0	0	0	Pass
3.6503	0	0	0	Pass
3.6764	0	0	0	Pass
3.7026	0	0	0	Pass
3.7288	0	0	0	Pass
3.7550	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #7

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

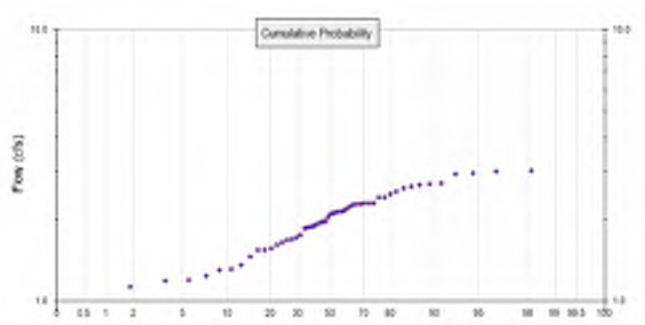
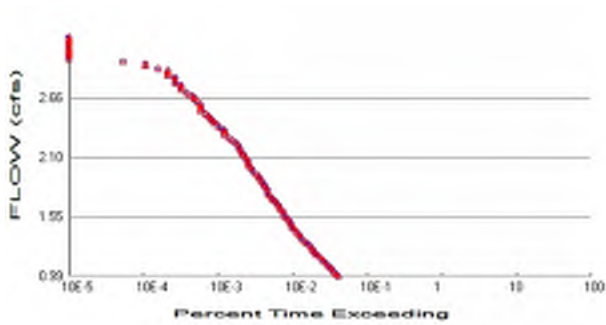
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 8



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #8

Total Pervious Area: 1.84
Total Impervious Area: 1.7

Mitigated Landuse Totals for POC #8

Total Pervious Area: 1.84
Total Impervious Area: 1.7

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #8

Return Period	Flow(cfs)
2 year	1.987983
5 year	2.462068
10 year	2.726446
25 year	3.018018
50 year	3.21043
100 year	3.385458

Flow Frequency Return Periods for Mitigated. POC #8

Return Period	Flow(cfs)
2 year	1.987983
5 year	2.462068
10 year	2.726446
25 year	3.018018
50 year	3.21043
100 year	3.385458

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #8

Year	Predeveloped	Mitigated
1956	2.284	2.284
1957	2.679	2.679
1958	1.948	1.948
1959	2.131	2.131
1960	2.256	2.256
1961	1.538	1.538
1962	2.996	2.996
1963	2.704	2.704
1964	2.180	2.180
1965	2.272	2.272
1966	2.294	2.294

1967	1.296	1.296
1968	2.150	2.150
1969	2.107	2.107
1970	1.711	1.711
1971	3.015	3.015
1972	2.609	2.609
1973	2.234	2.234
1974	2.292	2.292
1975	1.924	1.924
1976	2.413	2.413
1977	1.646	1.646
1978	2.959	2.959
1979	1.893	1.893
1980	1.672	1.672
1981	2.140	2.140
1982	2.480	2.480
1983	1.966	1.966
1984	1.877	1.877
1985	1.188	1.188
1986	2.268	2.268
1987	1.545	1.545
1988	2.415	2.415
1989	1.963	1.963
1990	2.722	2.722
1991	1.610	1.610
1992	1.196	1.196
1993	1.305	1.305
1994	1.861	1.861
1995	1.454	1.454
1996	1.853	1.853
1997	2.123	2.123
1998	1.237	1.237
1999	1.684	1.684
2000	1.556	1.556
2001	1.359	1.359
2002	1.750	1.750
2003	2.929	2.929
2004	2.643	2.643
2005	2.026	2.026
2006	2.085	2.085
2007	2.534	2.534
2008	1.127	1.127
2009	1.032	1.032

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	3.0153	3.0153
2	2.9960	2.9960
3	2.9588	2.9588
4	2.9294	2.9294
5	2.7225	2.7225
6	2.7041	2.7041
7	2.6794	2.6794
8	2.6432	2.6432
9	2.6087	2.6087
10	2.5338	2.5338
11	2.4796	2.4796

12	2.4152	2.4152
13	2.4127	2.4127
14	2.2937	2.2937
15	2.2919	2.2919
16	2.2843	2.2843
17	2.2720	2.2720
18	2.2680	2.2680
19	2.2557	2.2557
20	2.2338	2.2338
21	2.1800	2.1800
22	2.1496	2.1496
23	2.1397	2.1397
24	2.1310	2.1310
25	2.1227	2.1227
26	2.1073	2.1073
27	2.0851	2.0851
28	2.0256	2.0256
29	1.9662	1.9662
30	1.9631	1.9631
31	1.9480	1.9480
32	1.9242	1.9242
33	1.8934	1.8934
34	1.8771	1.8771
35	1.8613	1.8613
36	1.8532	1.8532
37	1.7503	1.7503
38	1.7111	1.7111
39	1.6837	1.6837
40	1.6724	1.6724
41	1.6462	1.6462
42	1.6102	1.6102
43	1.5563	1.5563
44	1.5450	1.5450
45	1.5375	1.5375
46	1.4540	1.4540
47	1.3588	1.3588
48	1.3047	1.3047
49	1.2962	1.2962
50	1.2368	1.2368
51	1.1959	1.1959
52	1.1882	1.1882
53	1.1275	1.1275
54	1.0316	1.0316

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.9940	771	771	100	Pass
1.0164	722	722	100	Pass
1.0388	671	671	100	Pass
1.0612	628	628	100	Pass
1.0835	585	585	100	Pass
1.1059	551	551	100	Pass
1.1283	511	511	100	Pass
1.1507	474	474	100	Pass
1.1731	432	432	100	Pass
1.1955	395	395	100	Pass
1.2179	375	375	100	Pass
1.2403	356	356	100	Pass
1.2627	335	335	100	Pass
1.2850	318	318	100	Pass
1.3074	291	291	100	Pass
1.3298	269	269	100	Pass
1.3522	247	247	100	Pass
1.3746	235	235	100	Pass
1.3970	217	217	100	Pass
1.4194	209	209	100	Pass
1.4418	197	197	100	Pass
1.4641	186	186	100	Pass
1.4865	178	178	100	Pass
1.5089	171	171	100	Pass
1.5313	163	163	100	Pass
1.5537	151	151	100	Pass
1.5761	145	145	100	Pass
1.5985	140	140	100	Pass
1.6209	130	130	100	Pass
1.6433	126	126	100	Pass
1.6656	120	120	100	Pass
1.6880	112	112	100	Pass
1.7104	103	103	100	Pass
1.7328	98	98	100	Pass
1.7552	92	92	100	Pass
1.7776	89	89	100	Pass
1.8000	88	88	100	Pass
1.8224	83	83	100	Pass
1.8447	79	79	100	Pass
1.8671	76	76	100	Pass
1.8895	73	73	100	Pass
1.9119	68	68	100	Pass
1.9343	65	65	100	Pass
1.9567	61	61	100	Pass
1.9791	56	56	100	Pass
2.0015	53	53	100	Pass
2.0239	49	49	100	Pass
2.0462	48	48	100	Pass
2.0686	48	48	100	Pass
2.0910	46	46	100	Pass
2.1134	43	43	100	Pass
2.1358	41	41	100	Pass
2.1582	38	38	100	Pass

2.1806	38	38	100	Pass
2.2030	36	36	100	Pass
2.2253	35	35	100	Pass
2.2477	32	32	100	Pass
2.2701	29	29	100	Pass
2.2925	26	26	100	Pass
2.3149	23	23	100	Pass
2.3373	23	23	100	Pass
2.3597	23	23	100	Pass
2.3821	21	21	100	Pass
2.4045	19	19	100	Pass
2.4268	17	17	100	Pass
2.4492	16	16	100	Pass
2.4716	15	15	100	Pass
2.4940	14	14	100	Pass
2.5164	13	13	100	Pass
2.5388	11	11	100	Pass
2.5612	11	11	100	Pass
2.5836	11	11	100	Pass
2.6059	11	11	100	Pass
2.6283	10	10	100	Pass
2.6507	9	9	100	Pass
2.6731	9	9	100	Pass
2.6955	8	8	100	Pass
2.7179	7	7	100	Pass
2.7403	6	6	100	Pass
2.7627	6	6	100	Pass
2.7851	6	6	100	Pass
2.8074	5	5	100	Pass
2.8298	5	5	100	Pass
2.8522	5	5	100	Pass
2.8746	4	4	100	Pass
2.8970	4	4	100	Pass
2.9194	4	4	100	Pass
2.9418	3	3	100	Pass
2.9642	2	2	100	Pass
2.9865	2	2	100	Pass
3.0089	1	1	100	Pass
3.0313	0	0	100	Pass
3.0537	0	0	0	Pass
3.0761	0	0	0	Pass
3.0985	0	0	0	Pass
3.1209	0	0	0	Pass
3.1433	0	0	0	Pass
3.1657	0	0	0	Pass
3.1880	0	0	0	Pass
3.2104	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #8

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

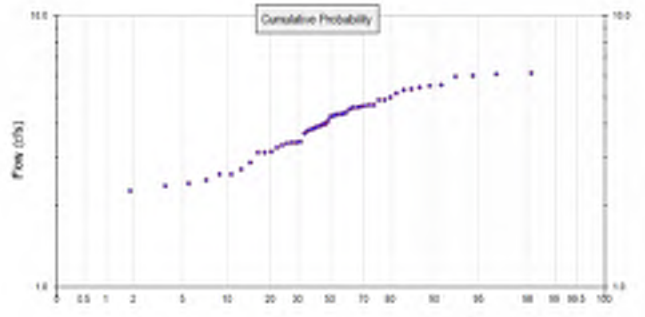
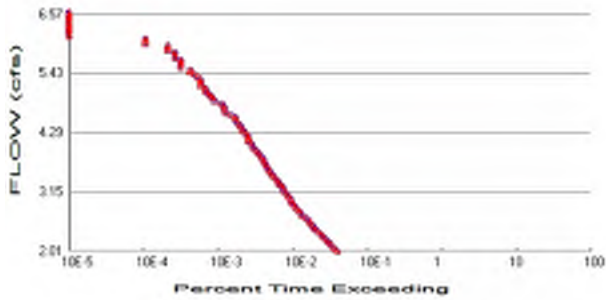
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 9



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #9

Total Pervious Area: 4.03
Total Impervious Area: 3.27

Mitigated Landuse Totals for POC #9

Total Pervious Area: 4.03
Total Impervious Area: 3.27

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #9

Return Period	Flow(cfs)
2 year	4.022539
5 year	5.006054
10 year	5.556453
25 year	6.164869
50 year	6.56711
100 year	6.933487

Flow Frequency Return Periods for Mitigated. POC #9

Return Period	Flow(cfs)
2 year	4.022539
5 year	5.006054
10 year	5.556453
25 year	6.164869
50 year	6.56711
100 year	6.933487

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #9

Year	Predeveloped	Mitigated
1956	4.662	4.662
1957	5.435	5.435
1958	3.926	3.926
1959	4.340	4.340
1960	4.602	4.602
1961	3.130	3.130
1962	6.116	6.116
1963	5.511	5.511
1964	4.410	4.410
1965	4.617	4.617
1966	4.677	4.677

1967	2.610	2.610
1968	4.370	4.370
1969	4.298	4.298
1970	3.433	3.433
1971	6.146	6.146
1972	5.330	5.330
1973	4.523	4.523
1974	4.675	4.675
1975	3.904	3.904
1976	4.907	4.907
1977	3.327	3.327
1978	5.996	5.996
1979	3.845	3.845
1980	3.393	3.393
1981	4.326	4.326
1982	5.016	5.016
1983	3.979	3.979
1984	3.813	3.813
1985	2.363	2.363
1986	4.605	4.605
1987	3.129	3.129
1988	4.907	4.907
1989	3.973	3.973
1990	5.549	5.549
1991	3.263	3.263
1992	2.413	2.413
1993	2.605	2.605
1994	3.769	3.769
1995	2.867	2.867
1996	3.676	3.676
1997	4.288	4.288
1998	2.480	2.480
1999	3.408	3.408
2000	3.147	3.147
2001	2.710	2.710
2002	3.412	3.412
2003	5.982	5.982
2004	5.381	5.381
2005	4.111	4.111
2006	4.236	4.236
2007	5.163	5.163
2008	2.257	2.257
2009	2.057	2.057

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #9

Rank	Predeveloped	Mitigated
1	6.1464	6.1464
2	6.1159	6.1159
3	5.9965	5.9965
4	5.9820	5.9820
5	5.5493	5.5493
6	5.5105	5.5105
7	5.4350	5.4350
8	5.3814	5.3814
9	5.3302	5.3302
10	5.1626	5.1626
11	5.0157	5.0157

12	4.9074	4.9074
13	4.9067	4.9067
14	4.6769	4.6769
15	4.6751	4.6751
16	4.6624	4.6624
17	4.6175	4.6175
18	4.6049	4.6049
19	4.6023	4.6023
20	4.5226	4.5226
21	4.4096	4.4096
22	4.3699	4.3699
23	4.3400	4.3400
24	4.3260	4.3260
25	4.2979	4.2979
26	4.2880	4.2880
27	4.2357	4.2357
28	4.1105	4.1105
29	3.9794	3.9794
30	3.9730	3.9730
31	3.9263	3.9263
32	3.9036	3.9036
33	3.8451	3.8451
34	3.8129	3.8129
35	3.7687	3.7687
36	3.6759	3.6759
37	3.4327	3.4327
38	3.4122	3.4122
39	3.4082	3.4082
40	3.3932	3.3932
41	3.3268	3.3268
42	3.2632	3.2632
43	3.1467	3.1467
44	3.1304	3.1304
45	3.1294	3.1294
46	2.8668	2.8668
47	2.7103	2.7103
48	2.6100	2.6100
49	2.6046	2.6046
50	2.4799	2.4799
51	2.4127	2.4127
52	2.3628	2.3628
53	2.2566	2.2566
54	2.0568	2.0568

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.0113	754	754	100	Pass
2.0573	699	699	100	Pass
2.1033	654	654	100	Pass
2.1493	608	608	100	Pass
2.1953	568	568	100	Pass
2.2414	532	532	100	Pass
2.2874	495	495	100	Pass
2.3334	457	457	100	Pass
2.3794	419	419	100	Pass
2.4254	385	385	100	Pass
2.4715	361	361	100	Pass
2.5175	349	349	100	Pass
2.5635	330	330	100	Pass
2.6095	310	310	100	Pass
2.6555	283	283	100	Pass
2.7015	256	256	100	Pass
2.7476	245	245	100	Pass
2.7936	226	226	100	Pass
2.8396	211	211	100	Pass
2.8856	202	202	100	Pass
2.9316	190	190	100	Pass
2.9777	181	181	100	Pass
3.0237	176	176	100	Pass
3.0697	165	165	100	Pass
3.1157	159	159	100	Pass
3.1617	147	147	100	Pass
3.2078	144	144	100	Pass
3.2538	137	137	100	Pass
3.2998	126	126	100	Pass
3.3458	122	122	100	Pass
3.3918	116	116	100	Pass
3.4378	105	105	100	Pass
3.4839	101	101	100	Pass
3.5299	96	96	100	Pass
3.5759	92	92	100	Pass
3.6219	88	88	100	Pass
3.6679	84	84	100	Pass
3.7140	80	80	100	Pass
3.7600	78	78	100	Pass
3.8060	74	74	100	Pass
3.8520	71	71	100	Pass
3.8980	66	66	100	Pass
3.9441	63	63	100	Pass
3.9901	58	58	100	Pass
4.0361	55	55	100	Pass
4.0821	53	53	100	Pass
4.1281	48	48	100	Pass
4.1741	48	48	100	Pass
4.2202	48	48	100	Pass
4.2662	46	46	100	Pass
4.3122	42	42	100	Pass
4.3582	40	40	100	Pass
4.4042	38	38	100	Pass

4.4503	37	37	100	Pass
4.4963	35	35	100	Pass
4.5423	32	32	100	Pass
4.5883	32	32	100	Pass
4.6343	28	28	100	Pass
4.6803	24	24	100	Pass
4.7264	23	23	100	Pass
4.7724	23	23	100	Pass
4.8184	22	22	100	Pass
4.8644	21	21	100	Pass
4.9104	17	17	100	Pass
4.9565	16	16	100	Pass
5.0025	15	15	100	Pass
5.0485	14	14	100	Pass
5.0945	13	13	100	Pass
5.1405	13	13	100	Pass
5.1866	11	11	100	Pass
5.2326	11	11	100	Pass
5.2786	11	11	100	Pass
5.3246	11	11	100	Pass
5.3706	10	10	100	Pass
5.4166	9	9	100	Pass
5.4627	8	8	100	Pass
5.5087	8	8	100	Pass
5.5547	6	6	100	Pass
5.6007	6	6	100	Pass
5.6467	6	6	100	Pass
5.6928	6	6	100	Pass
5.7388	5	5	100	Pass
5.7848	5	5	100	Pass
5.8308	5	5	100	Pass
5.8768	4	4	100	Pass
5.9228	4	4	100	Pass
5.9689	4	4	100	Pass
6.0149	2	2	100	Pass
6.0609	2	2	100	Pass
6.1069	2	2	100	Pass
6.1529	0	0	100	Pass
6.1990	0	0	0	Pass
6.2450	0	0	0	Pass
6.2910	0	0	0	Pass
6.3370	0	0	0	Pass
6.3830	0	0	0	Pass
6.4291	0	0	0	Pass
6.4751	0	0	0	Pass
6.5211	0	0	0	Pass
6.5671	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #9

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

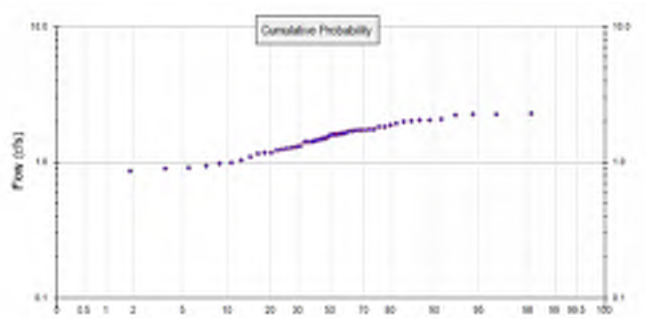
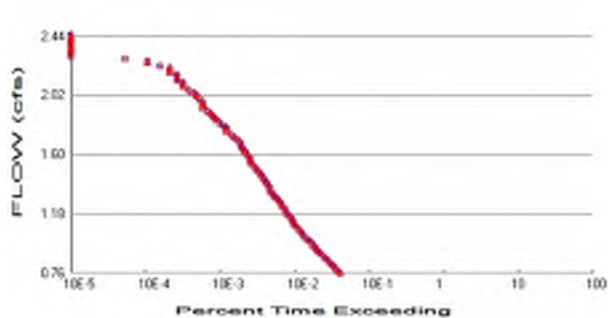
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 10



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #10

Total Pervious Area: 1.4
Total Impervious Area: 1.29

Mitigated Landuse Totals for POC #10

Total Pervious Area: 1.4
Total Impervious Area: 1.29

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #10

Return Period	Flow(cfs)
2 year	1.510049
5 year	1.870348
10 year	2.071287
25 year	2.292905
50 year	2.439159
100 year	2.572203

Flow Frequency Return Periods for Mitigated. POC #10

Return Period	Flow(cfs)
2 year	1.510049
5 year	1.870348
10 year	2.071287
25 year	2.292905
50 year	2.439159
100 year	2.572203

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #10

Year	Predeveloped	Mitigated
1956	1.735	1.735
1957	2.035	2.035
1958	1.480	1.480
1959	1.619	1.619
1960	1.714	1.714
1961	1.168	1.168
1962	2.276	2.276
1963	2.054	2.054
1964	1.656	1.656
1965	1.726	1.726
1966	1.743	1.743

1967	0.984	0.984
1968	1.633	1.633
1969	1.601	1.601
1970	1.299	1.299
1971	2.291	2.291
1972	1.982	1.982
1973	1.697	1.697
1974	1.741	1.741
1975	1.462	1.462
1976	1.833	1.833
1977	1.250	1.250
1978	2.248	2.248
1979	1.438	1.438
1980	1.270	1.270
1981	1.625	1.625
1982	1.883	1.883
1983	1.494	1.494
1984	1.426	1.426
1985	0.902	0.902
1986	1.723	1.723
1987	1.174	1.174
1988	1.835	1.835
1989	1.491	1.491
1990	2.068	2.068
1991	1.223	1.223
1992	0.908	0.908
1993	0.991	0.991
1994	1.414	1.414
1995	1.104	1.104
1996	1.407	1.407
1997	1.612	1.612
1998	0.939	0.939
1999	1.279	1.279
2000	1.182	1.182
2001	1.032	1.032
2002	1.329	1.329
2003	2.226	2.226
2004	2.008	2.008
2005	1.539	1.539
2006	1.584	1.584
2007	1.925	1.925
2008	0.856	0.856
2009	0.783	0.783

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #10

Rank	Predeveloped	Mitigated
1	2.2907	2.2907
2	2.2761	2.2761
3	2.2476	2.2476
4	2.2256	2.2256
5	2.0683	2.0683
6	2.0543	2.0543
7	2.0354	2.0354
8	2.0080	2.0080
9	1.9820	1.9820
10	1.9249	1.9249
11	1.8834	1.8834

12	1.8347	1.8347
13	1.8328	1.8328
14	1.7425	1.7425
15	1.7412	1.7412
16	1.7355	1.7355
17	1.7260	1.7260
18	1.7228	1.7228
19	1.7137	1.7137
20	1.6968	1.6968
21	1.6559	1.6559
22	1.6330	1.6330
23	1.6253	1.6253
24	1.6189	1.6189
25	1.6123	1.6123
26	1.6010	1.6010
27	1.5839	1.5839
28	1.5387	1.5387
29	1.4935	1.4935
30	1.4911	1.4911
31	1.4795	1.4795
32	1.4617	1.4617
33	1.4383	1.4383
34	1.4259	1.4259
35	1.4139	1.4139
36	1.4071	1.4071
37	1.3285	1.3285
38	1.2995	1.2995
39	1.2789	1.2789
40	1.2704	1.2704
41	1.2504	1.2504
42	1.2231	1.2231
43	1.1821	1.1821
44	1.1736	1.1736
45	1.1680	1.1680
46	1.1039	1.1039
47	1.0318	1.0318
48	0.9908	0.9908
49	0.9845	0.9845
50	0.9393	0.9393
51	0.9082	0.9082
52	0.9022	0.9022
53	0.8562	0.8562
54	0.7834	0.7834

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.7550	768	768	100	Pass
0.7720	720	720	100	Pass
0.7890	670	670	100	Pass
0.8061	628	628	100	Pass
0.8231	583	583	100	Pass
0.8401	550	550	100	Pass
0.8571	510	510	100	Pass
0.8741	473	473	100	Pass
0.8911	431	431	100	Pass
0.9081	395	395	100	Pass
0.9251	375	375	100	Pass
0.9422	356	356	100	Pass
0.9592	334	334	100	Pass
0.9762	318	318	100	Pass
0.9932	291	291	100	Pass
1.0102	269	269	100	Pass
1.0272	247	247	100	Pass
1.0442	235	235	100	Pass
1.0612	217	217	100	Pass
1.0782	209	209	100	Pass
1.0953	197	197	100	Pass
1.1123	186	186	100	Pass
1.1293	178	178	100	Pass
1.1463	171	171	100	Pass
1.1633	163	163	100	Pass
1.1803	151	151	100	Pass
1.1973	145	145	100	Pass
1.2143	140	140	100	Pass
1.2313	130	130	100	Pass
1.2484	126	126	100	Pass
1.2654	120	120	100	Pass
1.2824	112	112	100	Pass
1.2994	103	103	100	Pass
1.3164	98	98	100	Pass
1.3334	93	93	100	Pass
1.3504	89	89	100	Pass
1.3674	88	88	100	Pass
1.3844	83	83	100	Pass
1.4015	79	79	100	Pass
1.4185	76	76	100	Pass
1.4355	73	73	100	Pass
1.4525	68	68	100	Pass
1.4695	65	65	100	Pass
1.4865	61	61	100	Pass
1.5035	57	57	100	Pass
1.5205	53	53	100	Pass
1.5376	49	49	100	Pass
1.5546	48	48	100	Pass
1.5716	48	48	100	Pass
1.5886	46	46	100	Pass
1.6056	43	43	100	Pass
1.6226	41	41	100	Pass
1.6396	38	38	100	Pass

1.6566	37	37	100	Pass
1.6736	36	36	100	Pass
1.6907	35	35	100	Pass
1.7077	32	32	100	Pass
1.7247	29	29	100	Pass
1.7417	27	27	100	Pass
1.7587	23	23	100	Pass
1.7757	23	23	100	Pass
1.7927	23	23	100	Pass
1.8097	21	21	100	Pass
1.8267	19	19	100	Pass
1.8438	17	17	100	Pass
1.8608	16	16	100	Pass
1.8778	15	15	100	Pass
1.8948	14	14	100	Pass
1.9118	13	13	100	Pass
1.9288	11	11	100	Pass
1.9458	11	11	100	Pass
1.9628	11	11	100	Pass
1.9798	11	11	100	Pass
1.9969	10	10	100	Pass
2.0139	9	9	100	Pass
2.0309	9	9	100	Pass
2.0479	8	8	100	Pass
2.0649	7	7	100	Pass
2.0819	6	6	100	Pass
2.0989	6	6	100	Pass
2.1159	6	6	100	Pass
2.1330	5	5	100	Pass
2.1500	5	5	100	Pass
2.1670	5	5	100	Pass
2.1840	4	4	100	Pass
2.2010	4	4	100	Pass
2.2180	4	4	100	Pass
2.2350	3	3	100	Pass
2.2520	2	2	100	Pass
2.2690	2	2	100	Pass
2.2861	1	1	100	Pass
2.3031	0	0	100	Pass
2.3201	0	0	0	Pass
2.3371	0	0	0	Pass
2.3541	0	0	0	Pass
2.3711	0	0	0	Pass
2.3881	0	0	0	Pass
2.4051	0	0	0	Pass
2.4221	0	0	0	Pass
2.4392	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #10

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

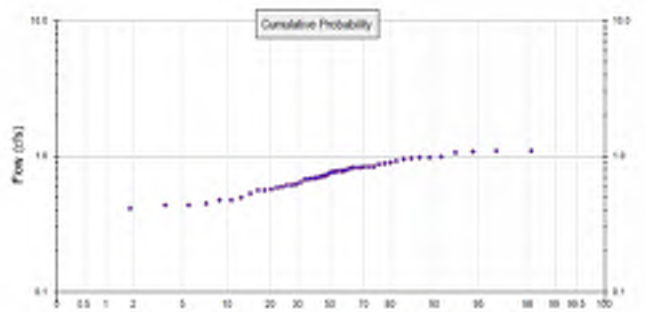
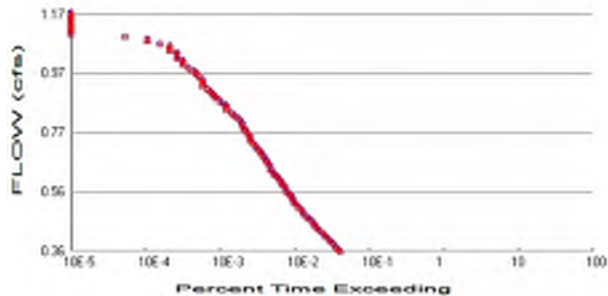
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 11



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #11

Total Pervious Area: 0.67
 Total Impervious Area: 0.62

Mitigated Landuse Totals for POC #11

Total Pervious Area: 0.67
 Total Impervious Area: 0.62

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #11

Return Period	Flow(cfs)
2 year	0.724601
5 year	0.897347
10 year	0.993677
25 year	1.099912
50 year	1.170016
100 year	1.233785

Flow Frequency Return Periods for Mitigated. POC #11

Return Period	Flow(cfs)
2 year	0.724601
5 year	0.897347
10 year	0.993677
25 year	1.099912
50 year	1.170016
100 year	1.233785

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #11

Year	Predeveloped	Mitigated
1956	0.833	0.833
1957	0.977	0.977
1958	0.710	0.710
1959	0.777	0.777
1960	0.822	0.822
1961	0.560	0.560
1962	1.092	1.092
1963	0.986	0.986
1964	0.795	0.795
1965	0.828	0.828
1966	0.836	0.836

1967	0.472	0.472
1968	0.783	0.783
1969	0.768	0.768
1970	0.624	0.624
1971	1.099	1.099
1972	0.951	0.951
1973	0.814	0.814
1974	0.835	0.835
1975	0.701	0.701
1976	0.879	0.879
1977	0.600	0.600
1978	1.078	1.078
1979	0.690	0.690
1980	0.610	0.610
1981	0.780	0.780
1982	0.904	0.904
1983	0.717	0.717
1984	0.684	0.684
1985	0.433	0.433
1986	0.827	0.827
1987	0.563	0.563
1988	0.880	0.880
1989	0.716	0.716
1990	0.992	0.992
1991	0.587	0.587
1992	0.436	0.436
1993	0.476	0.476
1994	0.678	0.678
1995	0.530	0.530
1996	0.676	0.676
1997	0.774	0.774
1998	0.451	0.451
1999	0.614	0.614
2000	0.567	0.567
2001	0.495	0.495
2002	0.638	0.638
2003	1.068	1.068
2004	0.963	0.963
2005	0.738	0.738
2006	0.760	0.760
2007	0.923	0.923
2008	0.411	0.411
2009	0.376	0.376

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	1.0989	1.0989
2	1.0919	1.0919
3	1.0784	1.0784
4	1.0676	1.0676
5	0.9922	0.9922
6	0.9856	0.9856
7	0.9766	0.9766
8	0.9633	0.9633
9	0.9507	0.9507
10	0.9235	0.9235
11	0.9038	0.9038

12	0.8803	0.8803
13	0.8793	0.8793
14	0.8359	0.8359
15	0.8353	0.8353
16	0.8325	0.8325
17	0.8281	0.8281
18	0.8266	0.8266
19	0.8221	0.8221
20	0.8142	0.8142
21	0.7946	0.7946
22	0.7835	0.7835
23	0.7799	0.7799
24	0.7766	0.7766
25	0.7737	0.7737
26	0.7680	0.7680
27	0.7599	0.7599
28	0.7383	0.7383
29	0.7167	0.7167
30	0.7155	0.7155
31	0.7100	0.7100
32	0.7013	0.7013
33	0.6901	0.6901
34	0.6841	0.6841
35	0.6784	0.6784
36	0.6756	0.6756
37	0.6382	0.6382
38	0.6237	0.6237
39	0.6137	0.6137
40	0.6095	0.6095
41	0.6000	0.6000
42	0.5869	0.5869
43	0.5672	0.5672
44	0.5631	0.5631
45	0.5604	0.5604
46	0.5301	0.5301
47	0.4953	0.4953
48	0.4756	0.4756
49	0.4725	0.4725
50	0.4509	0.4509
51	0.4360	0.4360
52	0.4332	0.4332
53	0.4110	0.4110
54	0.3761	0.3761

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3623	771	771	100	Pass
0.3705	724	724	100	Pass
0.3786	675	675	100	Pass
0.3868	633	633	100	Pass
0.3949	586	586	100	Pass
0.4031	550	550	100	Pass
0.4113	512	512	100	Pass
0.4194	475	475	100	Pass
0.4276	438	438	100	Pass
0.4357	400	400	100	Pass
0.4439	376	376	100	Pass
0.4520	356	356	100	Pass
0.4602	335	335	100	Pass
0.4684	318	318	100	Pass
0.4765	291	291	100	Pass
0.4847	269	269	100	Pass
0.4928	248	248	100	Pass
0.5010	238	238	100	Pass
0.5092	217	217	100	Pass
0.5173	209	209	100	Pass
0.5255	197	197	100	Pass
0.5336	186	186	100	Pass
0.5418	178	178	100	Pass
0.5500	172	172	100	Pass
0.5581	163	163	100	Pass
0.5663	151	151	100	Pass
0.5744	145	145	100	Pass
0.5826	140	140	100	Pass
0.5907	131	131	100	Pass
0.5989	126	126	100	Pass
0.6071	120	120	100	Pass
0.6152	112	112	100	Pass
0.6234	103	103	100	Pass
0.6315	98	98	100	Pass
0.6397	93	93	100	Pass
0.6479	90	90	100	Pass
0.6560	88	88	100	Pass
0.6642	83	83	100	Pass
0.6723	79	79	100	Pass
0.6805	76	76	100	Pass
0.6887	73	73	100	Pass
0.6968	68	68	100	Pass
0.7050	65	65	100	Pass
0.7131	61	61	100	Pass
0.7213	57	57	100	Pass
0.7294	53	53	100	Pass
0.7376	49	49	100	Pass
0.7458	48	48	100	Pass
0.7539	48	48	100	Pass
0.7621	46	46	100	Pass
0.7702	43	43	100	Pass
0.7784	41	41	100	Pass
0.7866	38	38	100	Pass

0.7947	38	38	100	Pass
0.8029	37	37	100	Pass
0.8110	35	35	100	Pass
0.8192	32	32	100	Pass
0.8273	29	29	100	Pass
0.8355	27	27	100	Pass
0.8437	23	23	100	Pass
0.8518	23	23	100	Pass
0.8600	23	23	100	Pass
0.8681	21	21	100	Pass
0.8763	19	19	100	Pass
0.8845	17	17	100	Pass
0.8926	16	16	100	Pass
0.9008	15	15	100	Pass
0.9089	14	14	100	Pass
0.9171	13	13	100	Pass
0.9253	11	11	100	Pass
0.9334	11	11	100	Pass
0.9416	11	11	100	Pass
0.9497	11	11	100	Pass
0.9579	10	10	100	Pass
0.9660	9	9	100	Pass
0.9742	9	9	100	Pass
0.9824	8	8	100	Pass
0.9905	7	7	100	Pass
0.9987	6	6	100	Pass
1.0068	6	6	100	Pass
1.0150	6	6	100	Pass
1.0232	5	5	100	Pass
1.0313	5	5	100	Pass
1.0395	5	5	100	Pass
1.0476	4	4	100	Pass
1.0558	4	4	100	Pass
1.0640	4	4	100	Pass
1.0721	3	3	100	Pass
1.0803	2	2	100	Pass
1.0884	2	2	100	Pass
1.0966	1	1	100	Pass
1.1047	0	0	100	Pass
1.1129	0	0	0	Pass
1.1211	0	0	0	Pass
1.1292	0	0	0	Pass
1.1374	0	0	0	Pass
1.1455	0	0	0	Pass
1.1537	0	0	0	Pass
1.1619	0	0	0	Pass
1.1700	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #11

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

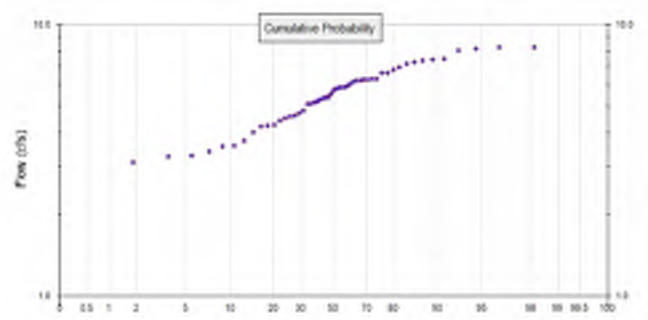
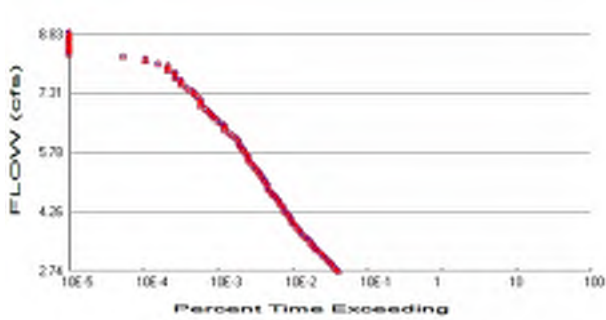
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 12



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #12

Total Pervious Area: 5.06
 Total Impervious Area: 4.68

Mitigated Landuse Totals for POC #12

Total Pervious Area: 5.06
 Total Impervious Area: 4.68

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #12

Return Period	Flow(cfs)
2 year	5.470614
5 year	6.774949
10 year	7.502304
25 year	8.304459
50 year	8.833801
100 year	9.315316

Flow Frequency Return Periods for Mitigated. POC #12

Return Period	Flow(cfs)
2 year	5.470614
5 year	6.774949
10 year	7.502304
25 year	8.304459
50 year	8.833801
100 year	9.315316

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #12

Year	Predeveloped	Mitigated
1956	6.286	6.286
1957	7.373	7.373
1958	5.361	5.361
1959	5.864	5.864
1960	6.207	6.207
1961	4.231	4.231
1962	8.244	8.244
1963	7.441	7.441
1964	5.999	5.999
1965	6.252	6.252
1966	6.311	6.311

1967	3.567	3.567
1968	5.915	5.915
1969	5.799	5.799
1970	4.709	4.709
1971	8.297	8.297
1972	7.178	7.178
1973	6.147	6.147
1974	6.307	6.307
1975	5.295	5.295
1976	6.639	6.639
1977	4.530	4.530
1978	8.142	8.142
1979	5.210	5.210
1980	4.602	4.602
1981	5.888	5.888
1982	6.823	6.823
1983	5.411	5.411
1984	5.165	5.165
1985	3.270	3.270
1986	6.241	6.241
1987	4.251	4.251
1988	6.646	6.646
1989	5.402	5.402
1990	7.491	7.491
1991	4.431	4.431
1992	3.291	3.291
1993	3.591	3.591
1994	5.122	5.122
1995	4.002	4.002
1996	5.101	5.101
1997	5.841	5.841
1998	3.404	3.404
1999	4.633	4.633
2000	4.283	4.283
2001	3.740	3.740
2002	4.818	4.818
2003	8.061	8.061
2004	7.273	7.273
2005	5.574	5.574
2006	5.738	5.738
2007	6.972	6.972
2008	3.103	3.103
2009	2.839	2.839

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #12

Rank	Predeveloped	Mitigated
1	8.2970	8.2970
2	8.2438	8.2438
3	8.1421	8.1421
4	8.0608	8.0608
5	7.4914	7.4914
6	7.4409	7.4409
7	7.3732	7.3732
8	7.2732	7.2732
9	7.1782	7.1782
10	6.9721	6.9721
11	6.8233	6.8233

12	6.6460	6.6460
13	6.6390	6.6390
14	6.3114	6.3114
15	6.3066	6.3066
16	6.2857	6.2857
17	6.2520	6.2520
18	6.2409	6.2409
19	6.2069	6.2069
20	6.1469	6.1469
21	5.9991	5.9991
22	5.9152	5.9152
23	5.8882	5.8882
24	5.8637	5.8637
25	5.8414	5.8414
26	5.7986	5.7986
27	5.7375	5.7375
28	5.5739	5.5739
29	5.4106	5.4106
30	5.4020	5.4020
31	5.3606	5.3606
32	5.2949	5.2949
33	5.2101	5.2101
34	5.1652	5.1652
35	5.1221	5.1221
36	5.1006	5.1006
37	4.8179	4.8179
38	4.7089	4.7089
39	4.6333	4.6333
40	4.6020	4.6020
41	4.5302	4.5302
42	4.4308	4.4308
43	4.2826	4.2826
44	4.2515	4.2515
45	4.2308	4.2308
46	4.0021	4.0021
47	3.7396	3.7396
48	3.5908	3.5908
49	3.5671	3.5671
50	3.4038	3.4038
51	3.2913	3.2913
52	3.2701	3.2701
53	3.1029	3.1029
54	2.8393	2.8393

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.7353	769	769	100	Pass
2.7969	722	722	100	Pass
2.8585	671	671	100	Pass
2.9201	628	628	100	Pass
2.9817	584	584	100	Pass
3.0433	550	550	100	Pass
3.1049	511	511	100	Pass
3.1665	473	473	100	Pass
3.2281	432	432	100	Pass
3.2897	395	395	100	Pass
3.3513	375	375	100	Pass
3.4129	356	356	100	Pass
3.4745	334	334	100	Pass
3.5361	318	318	100	Pass
3.5977	291	291	100	Pass
3.6593	269	269	100	Pass
3.7209	247	247	100	Pass
3.7825	235	235	100	Pass
3.8441	217	217	100	Pass
3.9057	209	209	100	Pass
3.9673	196	196	100	Pass
4.0289	186	186	100	Pass
4.0905	178	178	100	Pass
4.1521	171	171	100	Pass
4.2137	163	163	100	Pass
4.2753	151	151	100	Pass
4.3369	145	145	100	Pass
4.3985	140	140	100	Pass
4.4601	130	130	100	Pass
4.5217	126	126	100	Pass
4.5833	120	120	100	Pass
4.6449	112	112	100	Pass
4.7065	103	103	100	Pass
4.7681	98	98	100	Pass
4.8297	92	92	100	Pass
4.8913	89	89	100	Pass
4.9529	88	88	100	Pass
5.0145	83	83	100	Pass
5.0761	79	79	100	Pass
5.1377	76	76	100	Pass
5.1993	73	73	100	Pass
5.2609	68	68	100	Pass
5.3225	65	65	100	Pass
5.3841	61	61	100	Pass
5.4457	57	57	100	Pass
5.5073	53	53	100	Pass
5.5690	49	49	100	Pass
5.6306	48	48	100	Pass
5.6922	48	48	100	Pass
5.7538	46	46	100	Pass
5.8154	43	43	100	Pass
5.8770	41	41	100	Pass
5.9386	38	38	100	Pass

6.0002	37	37	100	Pass
6.0618	36	36	100	Pass
6.1234	35	35	100	Pass
6.1850	32	32	100	Pass
6.2466	29	29	100	Pass
6.3082	26	26	100	Pass
6.3698	23	23	100	Pass
6.4314	23	23	100	Pass
6.4930	23	23	100	Pass
6.5546	21	21	100	Pass
6.6162	19	19	100	Pass
6.6778	17	17	100	Pass
6.7394	16	16	100	Pass
6.8010	15	15	100	Pass
6.8626	14	14	100	Pass
6.9242	13	13	100	Pass
6.9858	11	11	100	Pass
7.0474	11	11	100	Pass
7.1090	11	11	100	Pass
7.1706	11	11	100	Pass
7.2322	10	10	100	Pass
7.2938	9	9	100	Pass
7.3554	9	9	100	Pass
7.4170	8	8	100	Pass
7.4786	7	7	100	Pass
7.5402	6	6	100	Pass
7.6018	6	6	100	Pass
7.6634	6	6	100	Pass
7.7250	5	5	100	Pass
7.7866	5	5	100	Pass
7.8482	5	5	100	Pass
7.9098	4	4	100	Pass
7.9714	4	4	100	Pass
8.0330	4	4	100	Pass
8.0946	3	3	100	Pass
8.1562	2	2	100	Pass
8.2178	2	2	100	Pass
8.2794	1	1	100	Pass
8.3410	0	0	100	Pass
8.4026	0	0	0	Pass
8.4642	0	0	0	Pass
8.5258	0	0	0	Pass
8.5874	0	0	0	Pass
8.6490	0	0	0	Pass
8.7106	0	0	0	Pass
8.7722	0	0	0	Pass
8.8338	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #12

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

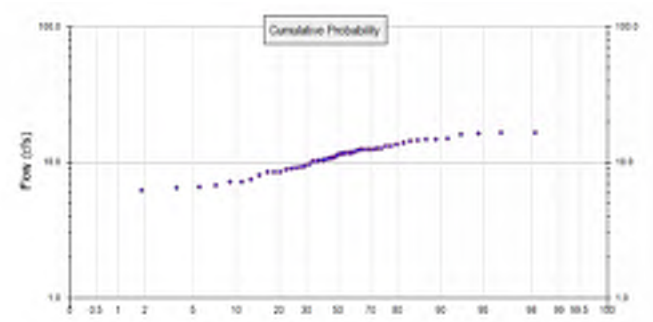
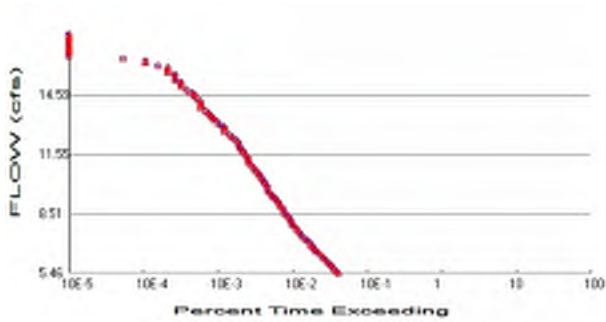
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 13



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #13

Total Pervious Area: 10.11
 Total Impervious Area: 9.34

Mitigated Landuse Totals for POC #13

Total Pervious Area: 10.11
 Total Impervious Area: 9.34

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #13

Return Period	Flow(cfs)
2 year	10.922548
5 year	13.527349
10 year	14.979947
25 year	16.58196
50 year	17.639146
100 year	18.600824

Flow Frequency Return Periods for Mitigated. POC #13

Return Period	Flow(cfs)
2 year	10.922548
5 year	13.527349
10 year	14.979947
25 year	16.58196
50 year	17.639146
100 year	18.600824

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #13

Year	Predeveloped	Mitigated
1956	12.551	12.551
1957	14.722	14.722
1958	10.703	10.703
1959	11.708	11.708
1960	12.394	12.394
1961	8.448	8.448
1962	16.461	16.461
1963	14.857	14.857
1964	11.978	11.978
1965	12.483	12.483
1966	12.602	12.602

1967	7.122	7.122
1968	11.811	11.811
1969	11.578	11.578
1970	9.401	9.401
1971	16.567	16.567
1972	14.333	14.333
1973	12.273	12.273
1974	12.593	12.593
1975	10.572	10.572
1976	13.256	13.256
1977	9.045	9.045
1978	16.257	16.257
1979	10.403	10.403
1980	9.188	9.188
1981	11.756	11.756
1982	13.623	13.623
1983	10.803	10.803
1984	10.313	10.313
1985	6.528	6.528
1986	12.461	12.461
1987	8.488	8.488
1988	13.270	13.270
1989	10.786	10.786
1990	14.958	14.958
1991	8.847	8.847
1992	6.571	6.571
1993	7.168	7.168
1994	10.227	10.227
1995	7.989	7.989
1996	10.182	10.182
1997	11.663	11.663
1998	6.795	6.795
1999	9.251	9.251
2000	8.551	8.551
2001	7.466	7.466
2002	9.616	9.616
2003	16.095	16.095
2004	14.522	14.522
2005	11.129	11.129
2006	11.456	11.456
2007	13.921	13.921
2008	6.195	6.195
2009	5.668	5.668

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #13

Rank	Predeveloped	Mitigated
1	16.5668	16.5668
2	16.4607	16.4607
3	16.2565	16.2565
4	16.0953	16.0953
5	14.9582	14.9582
6	14.8574	14.8574
7	14.7215	14.7215
8	14.5223	14.5223
9	14.3331	14.3331
10	13.9212	13.9212
11	13.6234	13.6234

12	13.2698	13.2698
13	13.2558	13.2558
14	12.6020	12.6020
15	12.5926	12.5926
16	12.5509	12.5509
17	12.4831	12.4831
18	12.4608	12.4608
19	12.3935	12.3935
20	12.2729	12.2729
21	11.9778	11.9778
22	11.8106	11.8106
23	11.7562	11.7562
24	11.7081	11.7081
25	11.6626	11.6626
26	11.5782	11.5782
27	11.4559	11.4559
28	11.1291	11.1291
29	10.8028	10.8028
30	10.7856	10.7856
31	10.7026	10.7026
32	10.5719	10.5719
33	10.4027	10.4027
34	10.3131	10.3131
35	10.2267	10.2267
36	10.1820	10.1820
37	9.6163	9.6163
38	9.4010	9.4010
39	9.2508	9.2508
40	9.1885	9.1885
41	9.0449	9.0449
42	8.8467	8.8467
43	8.5505	8.5505
44	8.4885	8.4885
45	8.4476	8.4476
46	7.9888	7.9888
47	7.4655	7.4655
48	7.1685	7.1685
49	7.1216	7.1216
50	6.7955	6.7955
51	6.5707	6.5707
52	6.5280	6.5280
53	6.1946	6.1946
54	5.6681	5.6681

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
5.4613	769	769	100	Pass
5.5843	721	721	100	Pass
5.7073	671	671	100	Pass
5.8303	628	628	100	Pass
5.9533	583	583	100	Pass
6.0763	550	550	100	Pass
6.1993	510	510	100	Pass
6.3223	473	473	100	Pass
6.4453	432	432	100	Pass
6.5684	395	395	100	Pass
6.6914	375	375	100	Pass
6.8144	356	356	100	Pass
6.9374	334	334	100	Pass
7.0604	318	318	100	Pass
7.1834	291	291	100	Pass
7.3064	269	269	100	Pass
7.4294	247	247	100	Pass
7.5524	234	234	100	Pass
7.6754	217	217	100	Pass
7.7984	209	209	100	Pass
7.9215	196	196	100	Pass
8.0445	186	186	100	Pass
8.1675	178	178	100	Pass
8.2905	171	171	100	Pass
8.4135	163	163	100	Pass
8.5365	151	151	100	Pass
8.6595	145	145	100	Pass
8.7825	140	140	100	Pass
8.9055	130	130	100	Pass
9.0285	126	126	100	Pass
9.1515	120	120	100	Pass
9.2745	112	112	100	Pass
9.3976	103	103	100	Pass
9.5206	98	98	100	Pass
9.6436	92	92	100	Pass
9.7666	89	89	100	Pass
9.8896	88	88	100	Pass
10.0126	83	83	100	Pass
10.1356	79	79	100	Pass
10.2586	76	76	100	Pass
10.3816	73	73	100	Pass
10.5046	68	68	100	Pass
10.6276	65	65	100	Pass
10.7507	61	61	100	Pass
10.8737	57	57	100	Pass
10.9967	53	53	100	Pass
11.1197	49	49	100	Pass
11.2427	48	48	100	Pass
11.3657	48	48	100	Pass
11.4887	46	46	100	Pass
11.6117	43	43	100	Pass
11.7347	41	41	100	Pass
11.8577	38	38	100	Pass

11.9807	37	37	100	Pass
12.1037	36	36	100	Pass
12.2268	35	35	100	Pass
12.3498	32	32	100	Pass
12.4728	29	29	100	Pass
12.5958	27	27	100	Pass
12.7188	23	23	100	Pass
12.8418	23	23	100	Pass
12.9648	23	23	100	Pass
13.0878	21	21	100	Pass
13.2108	19	19	100	Pass
13.3338	17	17	100	Pass
13.4568	16	16	100	Pass
13.5799	15	15	100	Pass
13.7029	14	14	100	Pass
13.8259	13	13	100	Pass
13.9489	11	11	100	Pass
14.0719	11	11	100	Pass
14.1949	11	11	100	Pass
14.3179	11	11	100	Pass
14.4409	10	10	100	Pass
14.5639	9	9	100	Pass
14.6869	9	9	100	Pass
14.8099	8	8	100	Pass
14.9330	7	7	100	Pass
15.0560	6	6	100	Pass
15.1790	6	6	100	Pass
15.3020	6	6	100	Pass
15.4250	5	5	100	Pass
15.5480	5	5	100	Pass
15.6710	5	5	100	Pass
15.7940	4	4	100	Pass
15.9170	4	4	100	Pass
16.0400	4	4	100	Pass
16.1630	3	3	100	Pass
16.2860	2	2	100	Pass
16.4091	2	2	100	Pass
16.5321	1	1	100	Pass
16.6551	0	0	100	Pass
16.7781	0	0	0	Pass
16.9011	0	0	0	Pass
17.0241	0	0	0	Pass
17.1471	0	0	0	Pass
17.2701	0	0	0	Pass
17.3931	0	0	0	Pass
17.5161	0	0	0	Pass
17.6391	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #13

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

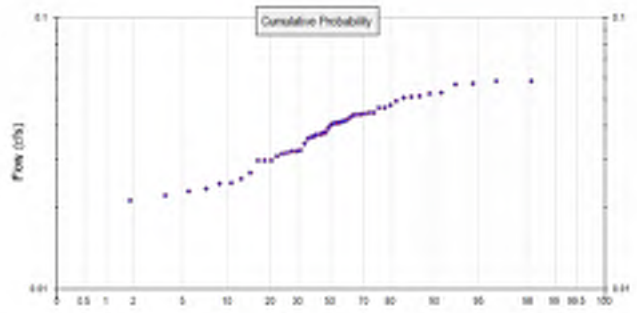
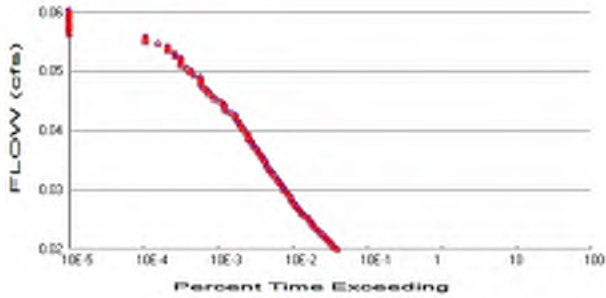
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 14



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #14

Total Pervious Area: 0.04
Total Impervious Area: 0.03

Mitigated Landuse Totals for POC #14

Total Pervious Area: 0.04
Total Impervious Area: 0.03

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #14

Return Period	Flow(cfs)
2 year	0.038134
5 year	0.0476
10 year	0.052909
25 year	0.058786
50 year	0.062676
100 year	0.066222

Flow Frequency Return Periods for Mitigated. POC #14

Return Period	Flow(cfs)
2 year	0.038134
5 year	0.0476
10 year	0.052909
25 year	0.058786
50 year	0.062676
100 year	0.066222

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #14

Year	Predeveloped	Mitigated
1956	0.044	0.044
1957	0.052	0.052
1958	0.037	0.037
1959	0.041	0.041
1960	0.044	0.044
1961	0.030	0.030
1962	0.058	0.058
1963	0.052	0.052
1964	0.042	0.042
1965	0.044	0.044
1966	0.045	0.045

1967	0.025	0.025
1968	0.042	0.042
1969	0.041	0.041
1970	0.032	0.032
1971	0.059	0.059
1972	0.051	0.051
1973	0.043	0.043
1974	0.045	0.045
1975	0.037	0.037
1976	0.047	0.047
1977	0.032	0.032
1978	0.057	0.057
1979	0.037	0.037
1980	0.032	0.032
1981	0.041	0.041
1982	0.048	0.048
1983	0.038	0.038
1984	0.036	0.036
1985	0.022	0.022
1986	0.044	0.044
1987	0.030	0.030
1988	0.047	0.047
1989	0.038	0.038
1990	0.053	0.053
1991	0.031	0.031
1992	0.023	0.023
1993	0.024	0.024
1994	0.036	0.036
1995	0.027	0.027
1996	0.034	0.034
1997	0.041	0.041
1998	0.023	0.023
1999	0.032	0.032
2000	0.030	0.030
2001	0.025	0.025
2002	0.032	0.032
2003	0.057	0.057
2004	0.051	0.051
2005	0.039	0.039
2006	0.040	0.040
2007	0.049	0.049
2008	0.021	0.021
2009	0.019	0.019

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #14

Rank	Predeveloped	Mitigated
1	0.0585	0.0585
2	0.0583	0.0583
3	0.0570	0.0570
4	0.0569	0.0569
5	0.0528	0.0528
6	0.0525	0.0525
7	0.0516	0.0516
8	0.0512	0.0512
9	0.0508	0.0508
10	0.0491	0.0491
11	0.0475	0.0475

12	0.0467	0.0467
13	0.0466	0.0466
14	0.0445	0.0445
15	0.0445	0.0445
16	0.0444	0.0444
17	0.0439	0.0439
18	0.0438	0.0438
19	0.0437	0.0437
20	0.0429	0.0429
21	0.0418	0.0418
22	0.0415	0.0415
23	0.0413	0.0413
24	0.0410	0.0410
25	0.0409	0.0409
26	0.0406	0.0406
27	0.0402	0.0402
28	0.0390	0.0390
29	0.0377	0.0377
30	0.0377	0.0377
31	0.0371	0.0371
32	0.0371	0.0371
33	0.0365	0.0365
34	0.0362	0.0362
35	0.0357	0.0357
36	0.0344	0.0344
37	0.0324	0.0324
38	0.0323	0.0323
39	0.0322	0.0322
40	0.0318	0.0318
41	0.0315	0.0315
42	0.0310	0.0310
43	0.0298	0.0298
44	0.0298	0.0298
45	0.0297	0.0297
46	0.0267	0.0267
47	0.0255	0.0255
48	0.0247	0.0247
49	0.0245	0.0245
50	0.0234	0.0234
51	0.0229	0.0229
52	0.0222	0.0222
53	0.0212	0.0212
54	0.0193	0.0193

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0191	747	747	100	Pass
0.0195	691	691	100	Pass
0.0199	643	643	100	Pass
0.0204	600	600	100	Pass
0.0208	556	556	100	Pass
0.0213	522	522	100	Pass
0.0217	487	487	100	Pass
0.0222	445	445	100	Pass
0.0226	410	410	100	Pass
0.0230	378	378	100	Pass
0.0235	357	357	100	Pass
0.0239	346	346	100	Pass
0.0244	327	327	100	Pass
0.0248	304	304	100	Pass
0.0252	277	277	100	Pass
0.0257	253	253	100	Pass
0.0261	239	239	100	Pass
0.0266	222	222	100	Pass
0.0270	207	207	100	Pass
0.0274	200	200	100	Pass
0.0279	190	190	100	Pass
0.0283	181	181	100	Pass
0.0288	176	176	100	Pass
0.0292	164	164	100	Pass
0.0296	157	157	100	Pass
0.0301	146	146	100	Pass
0.0305	142	142	100	Pass
0.0310	132	132	100	Pass
0.0314	125	125	100	Pass
0.0318	120	120	100	Pass
0.0323	114	114	100	Pass
0.0327	104	104	100	Pass
0.0332	101	101	100	Pass
0.0336	93	93	100	Pass
0.0340	91	91	100	Pass
0.0345	86	86	100	Pass
0.0349	83	83	100	Pass
0.0354	79	79	100	Pass
0.0358	76	76	100	Pass
0.0362	73	73	100	Pass
0.0367	69	69	100	Pass
0.0371	64	64	100	Pass
0.0376	63	63	100	Pass
0.0380	58	58	100	Pass
0.0384	55	55	100	Pass
0.0389	52	52	100	Pass
0.0393	48	48	100	Pass
0.0398	48	48	100	Pass
0.0402	48	48	100	Pass
0.0407	45	45	100	Pass
0.0411	41	41	100	Pass
0.0415	40	40	100	Pass
0.0420	37	37	100	Pass

0.0424	37	37	100	Pass
0.0429	35	35	100	Pass
0.0433	32	32	100	Pass
0.0437	32	32	100	Pass
0.0442	28	28	100	Pass
0.0446	24	24	100	Pass
0.0451	23	23	100	Pass
0.0455	23	23	100	Pass
0.0459	22	22	100	Pass
0.0464	20	20	100	Pass
0.0468	17	17	100	Pass
0.0473	16	16	100	Pass
0.0477	14	14	100	Pass
0.0481	14	14	100	Pass
0.0486	13	13	100	Pass
0.0490	12	12	100	Pass
0.0495	11	11	100	Pass
0.0499	11	11	100	Pass
0.0503	11	11	100	Pass
0.0508	11	11	100	Pass
0.0512	9	9	100	Pass
0.0517	8	8	100	Pass
0.0521	8	8	100	Pass
0.0525	7	7	100	Pass
0.0530	6	6	100	Pass
0.0534	6	6	100	Pass
0.0539	6	6	100	Pass
0.0543	6	6	100	Pass
0.0547	5	5	100	Pass
0.0552	5	5	100	Pass
0.0556	4	4	100	Pass
0.0561	4	4	100	Pass
0.0565	4	4	100	Pass
0.0569	3	3	100	Pass
0.0574	2	2	100	Pass
0.0578	2	2	100	Pass
0.0583	2	2	100	Pass
0.0587	0	0	100	Pass
0.0592	0	0	0	Pass
0.0596	0	0	0	Pass
0.0600	0	0	0	Pass
0.0605	0	0	0	Pass
0.0609	0	0	0	Pass
0.0614	0	0	0	Pass
0.0618	0	0	0	Pass
0.0622	0	0	0	Pass
0.0627	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #14

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

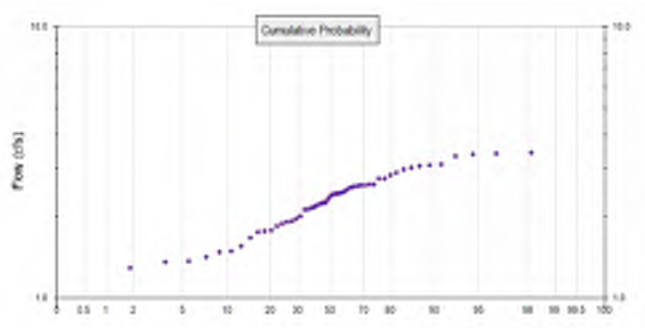
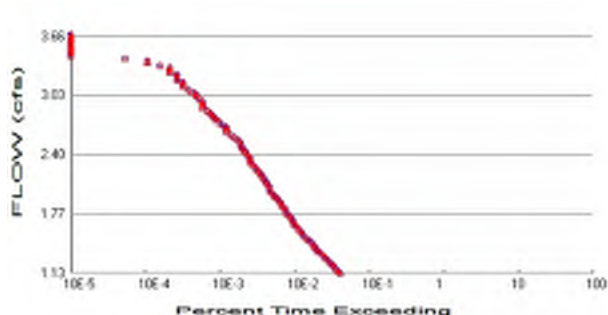
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 15



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #15

Total Pervious Area: 2.1
Total Impervious Area: 1.94

Mitigated Landuse Totals for POC #15

Total Pervious Area: 2.1
Total Impervious Area: 1.94

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #15

Return Period	Flow(cfs)
2 year	2.268735
5 year	2.809785
10 year	3.111508
25 year	3.444266
50 year	3.663857
100 year	3.86361

Flow Frequency Return Periods for Mitigated. POC #15

Return Period	Flow(cfs)
2 year	2.268735
5 year	2.809785
10 year	3.111508
25 year	3.444266
50 year	3.663857
100 year	3.86361

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #15

Year	Predeveloped	Mitigated
1956	2.607	2.607
1957	3.058	3.058
1958	2.223	2.223
1959	2.432	2.432
1960	2.574	2.574
1961	1.755	1.755
1962	3.419	3.419
1963	3.086	3.086
1964	2.488	2.488
1965	2.593	2.593
1966	2.618	2.618

1967	1.479	1.479
1968	2.453	2.453
1969	2.405	2.405
1970	1.953	1.953
1971	3.441	3.441
1972	2.977	2.977
1973	2.549	2.549
1974	2.616	2.616
1975	2.196	2.196
1976	2.753	2.753
1977	1.879	1.879
1978	3.377	3.377
1979	2.161	2.161
1980	1.909	1.909
1981	2.442	2.442
1982	2.830	2.830
1983	2.244	2.244
1984	2.142	2.142
1985	1.356	1.356
1986	2.588	2.588
1987	1.763	1.763
1988	2.756	2.756
1989	2.240	2.240
1990	3.107	3.107
1991	1.838	1.838
1992	1.365	1.365
1993	1.489	1.489
1994	2.124	2.124
1995	1.659	1.659
1996	2.115	2.115
1997	2.422	2.422
1998	1.411	1.411
1999	1.921	1.921
2000	1.776	1.776
2001	1.551	1.551
2002	1.997	1.997
2003	3.343	3.343
2004	3.016	3.016
2005	2.312	2.312
2006	2.380	2.380
2007	2.892	2.892
2008	1.287	1.287
2009	1.177	1.177

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #15

Rank	Predeveloped	Mitigated
1	3.4411	3.4411
2	3.4191	3.4191
3	3.3767	3.3767
4	3.3432	3.3432
5	3.1070	3.1070
6	3.0861	3.0861
7	3.0578	3.0578
8	3.0164	3.0164
9	2.9772	2.9772
10	2.8916	2.8916
11	2.8297	2.8297

12	2.7563	2.7563
13	2.7534	2.7534
14	2.6176	2.6176
15	2.6156	2.6156
16	2.6070	2.6070
17	2.5929	2.5929
18	2.5883	2.5883
19	2.5743	2.5743
20	2.5492	2.5492
21	2.4879	2.4879
22	2.4532	2.4532
23	2.4419	2.4419
24	2.4319	2.4319
25	2.4225	2.4225
26	2.4049	2.4049
27	2.3795	2.3795
28	2.3116	2.3116
29	2.2439	2.2439
30	2.2403	2.2403
31	2.2231	2.2231
32	2.1959	2.1959
33	2.1608	2.1608
34	2.1421	2.1421
35	2.1242	2.1242
36	2.1149	2.1149
37	1.9974	1.9974
38	1.9527	1.9527
39	1.9215	1.9215
40	1.9085	1.9085
41	1.8787	1.8787
42	1.8376	1.8376
43	1.7760	1.7760
44	1.7632	1.7632
45	1.7547	1.7547
46	1.6594	1.6594
47	1.5507	1.5507
48	1.4890	1.4890
49	1.4792	1.4792
50	1.4115	1.4115
51	1.3648	1.3648
52	1.3559	1.3559
53	1.2867	1.2867
54	1.1773	1.1773

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.1344	769	769	100	Pass
1.1599	722	722	100	Pass
1.1855	671	671	100	Pass
1.2110	628	628	100	Pass
1.2366	585	585	100	Pass
1.2621	550	550	100	Pass
1.2877	511	511	100	Pass
1.3132	473	473	100	Pass
1.3388	434	434	100	Pass
1.3643	395	395	100	Pass
1.3899	375	375	100	Pass
1.4154	356	356	100	Pass
1.4410	335	335	100	Pass
1.4665	318	318	100	Pass
1.4921	291	291	100	Pass
1.5176	269	269	100	Pass
1.5432	247	247	100	Pass
1.5687	235	235	100	Pass
1.5943	217	217	100	Pass
1.6198	209	209	100	Pass
1.6454	197	197	100	Pass
1.6709	186	186	100	Pass
1.6965	178	178	100	Pass
1.7220	171	171	100	Pass
1.7476	163	163	100	Pass
1.7731	151	151	100	Pass
1.7987	145	145	100	Pass
1.8242	140	140	100	Pass
1.8498	130	130	100	Pass
1.8753	126	126	100	Pass
1.9009	120	120	100	Pass
1.9264	112	112	100	Pass
1.9520	103	103	100	Pass
1.9775	98	98	100	Pass
2.0031	92	92	100	Pass
2.0286	89	89	100	Pass
2.0542	88	88	100	Pass
2.0797	83	83	100	Pass
2.1053	79	79	100	Pass
2.1308	76	76	100	Pass
2.1564	73	73	100	Pass
2.1819	68	68	100	Pass
2.2075	65	65	100	Pass
2.2330	61	61	100	Pass
2.2586	57	57	100	Pass
2.2841	53	53	100	Pass
2.3097	49	49	100	Pass
2.3352	48	48	100	Pass
2.3608	48	48	100	Pass
2.3863	46	46	100	Pass
2.4119	43	43	100	Pass
2.4374	41	41	100	Pass
2.4630	38	38	100	Pass

2.4885	37	37	100	Pass
2.5141	36	36	100	Pass
2.5396	35	35	100	Pass
2.5652	32	32	100	Pass
2.5907	29	29	100	Pass
2.6163	26	26	100	Pass
2.6418	23	23	100	Pass
2.6674	23	23	100	Pass
2.6929	23	23	100	Pass
2.7185	21	21	100	Pass
2.7440	19	19	100	Pass
2.7696	17	17	100	Pass
2.7951	16	16	100	Pass
2.8207	15	15	100	Pass
2.8462	14	14	100	Pass
2.8718	13	13	100	Pass
2.8973	11	11	100	Pass
2.9229	11	11	100	Pass
2.9484	11	11	100	Pass
2.9740	11	11	100	Pass
2.9995	10	10	100	Pass
3.0251	9	9	100	Pass
3.0506	9	9	100	Pass
3.0762	8	8	100	Pass
3.1017	7	7	100	Pass
3.1273	6	6	100	Pass
3.1528	6	6	100	Pass
3.1784	6	6	100	Pass
3.2039	5	5	100	Pass
3.2295	5	5	100	Pass
3.2551	5	5	100	Pass
3.2806	4	4	100	Pass
3.3062	4	4	100	Pass
3.3317	4	4	100	Pass
3.3573	3	3	100	Pass
3.3828	2	2	100	Pass
3.4084	2	2	100	Pass
3.4339	1	1	100	Pass
3.4595	0	0	100	Pass
3.4850	0	0	0	Pass
3.5106	0	0	0	Pass
3.5361	0	0	0	Pass
3.5617	0	0	0	Pass
3.5872	0	0	0	Pass
3.6128	0	0	0	Pass
3.6383	0	0	0	Pass
3.6639	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #15

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

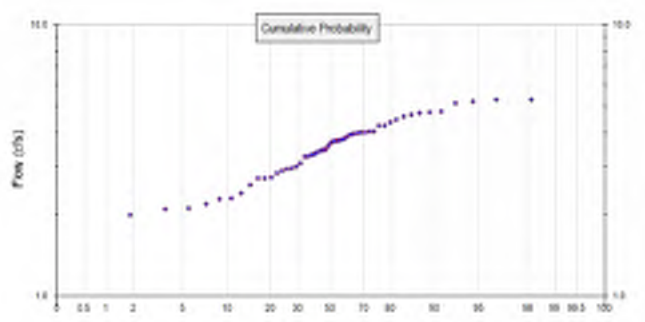
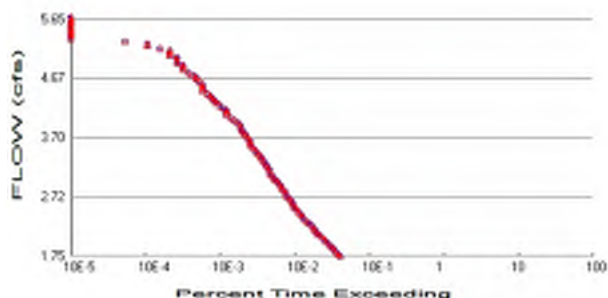
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 16



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #16

Total Pervious Area: 3.24
 Total Impervious Area: 2.99

Mitigated Landuse Totals for POC #16

Total Pervious Area: 3.24
 Total Impervious Area: 2.99

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #16

Return Period	Flow(cfs)
2 year	3.498033
5 year	4.332416
10 year	4.797734
25 year	5.310924
50 year	5.649589
100 year	5.957662

Flow Frequency Return Periods for Mitigated. POC #16

Return Period	Flow(cfs)
2 year	3.498033
5 year	4.332416
10 year	4.797734
25 year	5.310924
50 year	5.649589
100 year	5.957662

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #16

Year	Predeveloped	Mitigated
1956	4.020	4.020
1957	4.715	4.715
1958	3.427	3.427
1959	3.750	3.750
1960	3.969	3.969
1961	2.706	2.706
1962	5.272	5.272
1963	4.758	4.758
1964	3.836	3.836
1965	3.998	3.998
1966	4.036	4.036

1967	2.281	2.281
1968	3.783	3.783
1969	3.708	3.708
1970	3.011	3.011
1971	5.306	5.306
1972	4.591	4.591
1973	3.931	3.931
1974	4.033	4.033
1975	3.386	3.386
1976	4.245	4.245
1977	2.897	2.897
1978	5.206	5.206
1979	3.332	3.332
1980	2.943	2.943
1981	3.765	3.765
1982	4.363	4.363
1983	3.460	3.460
1984	3.303	3.303
1985	2.090	2.090
1986	3.991	3.991
1987	2.719	2.719
1988	4.250	4.250
1989	3.454	3.454
1990	4.791	4.791
1991	2.833	2.833
1992	2.104	2.104
1993	2.296	2.296
1994	3.275	3.275
1995	2.558	2.558
1996	3.260	3.260
1997	3.735	3.735
1998	2.176	2.176
1999	2.963	2.963
2000	2.738	2.738
2001	2.391	2.391
2002	3.079	3.079
2003	5.155	5.155
2004	4.651	4.651
2005	3.564	3.564
2006	3.669	3.669
2007	4.459	4.459
2008	1.984	1.984
2009	1.815	1.815

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #16

Rank	Predeveloped	Mitigated
1	5.3060	5.3060
2	5.2721	5.2721
3	5.2064	5.2064
4	5.1550	5.1550
5	4.7908	4.7908
6	4.7585	4.7585
7	4.7148	4.7148
8	4.6511	4.6511
9	4.5907	4.5907
10	4.4586	4.4586
11	4.3630	4.3630

12	4.2499	4.2499
13	4.2455	4.2455
14	4.0362	4.0362
15	4.0332	4.0332
16	4.0198	4.0198
17	3.9980	3.9980
18	3.9908	3.9908
19	3.9694	3.9694
20	3.9305	3.9305
21	3.8360	3.8360
22	3.7826	3.7826
23	3.7650	3.7650
24	3.7498	3.7498
25	3.7350	3.7350
26	3.7083	3.7083
27	3.6690	3.6690
28	3.5643	3.5643
29	3.4597	3.4597
30	3.4542	3.4542
31	3.4275	3.4275
32	3.3858	3.3858
33	3.3316	3.3316
34	3.3029	3.3029
35	3.2752	3.2752
36	3.2604	3.2604
37	3.0788	3.0788
38	3.0105	3.0105
39	2.9627	2.9627
40	2.9427	2.9427
41	2.8967	2.8967
42	2.8333	2.8333
43	2.7384	2.7384
44	2.7185	2.7185
45	2.7056	2.7056
46	2.5579	2.5579
47	2.3906	2.3906
48	2.2955	2.2955
49	2.2807	2.2807
50	2.1761	2.1761
51	2.1042	2.1042
52	2.0903	2.0903
53	1.9837	1.9837
54	1.8150	1.8150

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.7490	769	769	100	Pass
1.7884	721	721	100	Pass
1.8278	671	671	100	Pass
1.8672	628	628	100	Pass
1.9066	585	585	100	Pass
1.9460	550	550	100	Pass
1.9854	511	511	100	Pass
2.0248	474	474	100	Pass
2.0642	432	432	100	Pass
2.1036	395	395	100	Pass
2.1430	375	375	100	Pass
2.1824	356	356	100	Pass
2.2218	335	335	100	Pass
2.2612	318	318	100	Pass
2.3006	291	291	100	Pass
2.3400	269	269	100	Pass
2.3794	247	247	100	Pass
2.4188	235	235	100	Pass
2.4582	217	217	100	Pass
2.4976	209	209	100	Pass
2.5370	196	196	100	Pass
2.5764	186	186	100	Pass
2.6158	178	178	100	Pass
2.6552	171	171	100	Pass
2.6946	163	163	100	Pass
2.7340	151	151	100	Pass
2.7734	145	145	100	Pass
2.8128	140	140	100	Pass
2.8522	130	130	100	Pass
2.8916	126	126	100	Pass
2.9310	119	119	100	Pass
2.9704	112	112	100	Pass
3.0098	103	103	100	Pass
3.0492	98	98	100	Pass
3.0886	93	93	100	Pass
3.1280	89	89	100	Pass
3.1674	88	88	100	Pass
3.2068	83	83	100	Pass
3.2462	79	79	100	Pass
3.2856	76	76	100	Pass
3.3250	73	73	100	Pass
3.3644	68	68	100	Pass
3.4038	65	65	100	Pass
3.4432	61	61	100	Pass
3.4826	57	57	100	Pass
3.5220	53	53	100	Pass
3.5614	49	49	100	Pass
3.6008	48	48	100	Pass
3.6402	48	48	100	Pass
3.6796	46	46	100	Pass
3.7190	43	43	100	Pass
3.7584	41	41	100	Pass
3.7978	38	38	100	Pass

3.8372	37	37	100	Pass
3.8766	36	36	100	Pass
3.9160	35	35	100	Pass
3.9554	32	32	100	Pass
3.9948	29	29	100	Pass
4.0342	26	26	100	Pass
4.0736	23	23	100	Pass
4.1130	23	23	100	Pass
4.1524	23	23	100	Pass
4.1918	21	21	100	Pass
4.2312	19	19	100	Pass
4.2706	17	17	100	Pass
4.3100	16	16	100	Pass
4.3494	15	15	100	Pass
4.3888	14	14	100	Pass
4.4282	13	13	100	Pass
4.4676	11	11	100	Pass
4.5070	11	11	100	Pass
4.5464	11	11	100	Pass
4.5858	11	11	100	Pass
4.6252	10	10	100	Pass
4.6646	9	9	100	Pass
4.7040	9	9	100	Pass
4.7434	8	8	100	Pass
4.7828	7	7	100	Pass
4.8222	6	6	100	Pass
4.8616	6	6	100	Pass
4.9010	6	6	100	Pass
4.9404	5	5	100	Pass
4.9798	5	5	100	Pass
5.0192	5	5	100	Pass
5.0586	4	4	100	Pass
5.0980	4	4	100	Pass
5.1374	4	4	100	Pass
5.1768	3	3	100	Pass
5.2162	2	2	100	Pass
5.2556	2	2	100	Pass
5.2950	1	1	100	Pass
5.3344	0	0	100	Pass
5.3738	0	0	0	Pass
5.4132	0	0	0	Pass
5.4526	0	0	0	Pass
5.4920	0	0	0	Pass
5.5314	0	0	0	Pass
5.5708	0	0	0	Pass
5.6102	0	0	0	Pass
5.6496	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #16

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

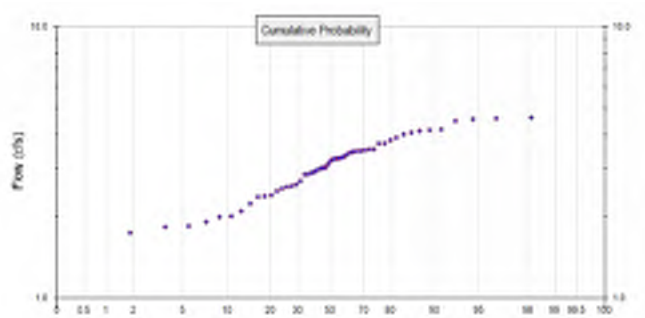
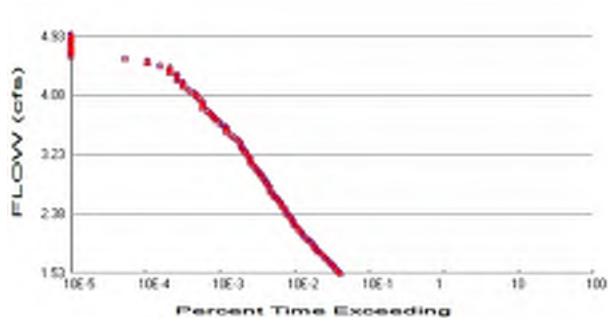
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 17



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #17

Total Pervious Area: 2.83
Total Impervious Area: 2.61

Mitigated Landuse Totals for POC #17

Total Pervious Area: 2.83
Total Impervious Area: 2.61

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #17

Return Period	Flow(cfs)
2 year	3.054184
5 year	3.782786
10 year	4.189118
25 year	4.637259
50 year	4.933
100 year	5.202027

Flow Frequency Return Periods for Mitigated. POC #17

Return Period	Flow(cfs)
2 year	3.054184
5 year	3.782786
10 year	4.189118
25 year	4.637259
50 year	4.933
100 year	5.202027

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #17

Year	Predeveloped	Mitigated
1956	3.510	3.510
1957	4.117	4.117
1958	2.993	2.993
1959	3.274	3.274
1960	3.466	3.466
1961	2.362	2.362
1962	4.603	4.603
1963	4.155	4.155
1964	3.349	3.349
1965	3.491	3.491
1966	3.524	3.524

1967	1.991	1.991
1968	3.303	3.303
1969	3.238	3.238
1970	2.628	2.628
1971	4.633	4.633
1972	4.008	4.008
1973	3.432	3.432
1974	3.522	3.522
1975	2.956	2.956
1976	3.707	3.707
1977	2.529	2.529
1978	4.546	4.546
1979	2.909	2.909
1980	2.569	2.569
1981	3.287	3.287
1982	3.809	3.809
1983	3.021	3.021
1984	2.884	2.884
1985	1.825	1.825
1986	3.484	3.484
1987	2.374	2.374
1988	3.711	3.711
1989	3.016	3.016
1990	4.183	4.183
1991	2.474	2.474
1992	1.837	1.837
1993	2.004	2.004
1994	2.860	2.860
1995	2.233	2.233
1996	2.846	2.846
1997	3.261	3.261
1998	1.900	1.900
1999	2.587	2.587
2000	2.391	2.391
2001	2.087	2.087
2002	2.688	2.688
2003	4.501	4.501
2004	4.061	4.061
2005	3.112	3.112
2006	3.203	3.203
2007	3.893	3.893
2008	1.732	1.732
2009	1.585	1.585

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #17

Rank	Predeveloped	Mitigated
1	4.6329	4.6329
2	4.6033	4.6033
3	4.5458	4.5458
4	4.5011	4.5011
5	4.1830	4.1830
6	4.1548	4.1548
7	4.1166	4.1166
8	4.0611	4.0611
9	4.0084	4.0084
10	3.8930	3.8930
11	3.8094	3.8094

12	3.7107	3.7107
13	3.7069	3.7069
14	3.5242	3.5242
15	3.5215	3.5215
16	3.5099	3.5099
17	3.4907	3.4907
18	3.4845	3.4845
19	3.4659	3.4659
20	3.4318	3.4318
21	3.3492	3.3492
22	3.3027	3.3027
23	3.2873	3.2873
24	3.2741	3.2741
25	3.2611	3.2611
26	3.2379	3.2379
27	3.2035	3.2035
28	3.1121	3.1121
29	3.0207	3.0207
30	3.0159	3.0159
31	2.9925	2.9925
32	2.9563	2.9563
33	2.9090	2.9090
34	2.8839	2.8839
35	2.8596	2.8596
36	2.8464	2.8464
37	2.6877	2.6877
38	2.6284	2.6284
39	2.5867	2.5867
40	2.5694	2.5694
41	2.5291	2.5291
42	2.4738	2.4738
43	2.3909	2.3909
44	2.3736	2.3736
45	2.3623	2.3623
46	2.2331	2.2331
47	2.0871	2.0871
48	2.0041	2.0041
49	1.9912	1.9912
50	1.8999	1.8999
51	1.8371	1.8371
52	1.8250	1.8250
53	1.7319	1.7319
54	1.5846	1.5846

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.5271	769	769	100	Pass
1.5615	722	722	100	Pass
1.5959	671	671	100	Pass
1.6303	628	628	100	Pass
1.6647	585	585	100	Pass
1.6991	550	550	100	Pass
1.7335	511	511	100	Pass
1.7679	474	474	100	Pass
1.8023	432	432	100	Pass
1.8367	395	395	100	Pass
1.8711	375	375	100	Pass
1.9055	356	356	100	Pass
1.9399	335	335	100	Pass
1.9743	318	318	100	Pass
2.0087	291	291	100	Pass
2.0431	269	269	100	Pass
2.0775	247	247	100	Pass
2.1119	235	235	100	Pass
2.1463	217	217	100	Pass
2.1808	209	209	100	Pass
2.2152	196	196	100	Pass
2.2496	186	186	100	Pass
2.2840	178	178	100	Pass
2.3184	171	171	100	Pass
2.3528	163	163	100	Pass
2.3872	151	151	100	Pass
2.4216	145	145	100	Pass
2.4560	140	140	100	Pass
2.4904	130	130	100	Pass
2.5248	126	126	100	Pass
2.5592	119	119	100	Pass
2.5936	112	112	100	Pass
2.6280	103	103	100	Pass
2.6624	98	98	100	Pass
2.6968	93	93	100	Pass
2.7312	89	89	100	Pass
2.7656	88	88	100	Pass
2.8000	83	83	100	Pass
2.8344	79	79	100	Pass
2.8688	76	76	100	Pass
2.9032	73	73	100	Pass
2.9376	68	68	100	Pass
2.9720	64	64	100	Pass
3.0064	61	61	100	Pass
3.0408	57	57	100	Pass
3.0752	53	53	100	Pass
3.1096	49	49	100	Pass
3.1440	48	48	100	Pass
3.1784	48	48	100	Pass
3.2128	46	46	100	Pass
3.2472	43	43	100	Pass
3.2817	41	41	100	Pass
3.3161	38	38	100	Pass

3.3505	37	37	100	Pass
3.3849	36	36	100	Pass
3.4193	35	35	100	Pass
3.4537	32	32	100	Pass
3.4881	29	29	100	Pass
3.5225	26	26	100	Pass
3.5569	23	23	100	Pass
3.5913	23	23	100	Pass
3.6257	23	23	100	Pass
3.6601	21	21	100	Pass
3.6945	19	19	100	Pass
3.7289	17	17	100	Pass
3.7633	16	16	100	Pass
3.7977	15	15	100	Pass
3.8321	14	14	100	Pass
3.8665	13	13	100	Pass
3.9009	11	11	100	Pass
3.9353	11	11	100	Pass
3.9697	11	11	100	Pass
4.0041	11	11	100	Pass
4.0385	10	10	100	Pass
4.0729	9	9	100	Pass
4.1073	9	9	100	Pass
4.1417	8	8	100	Pass
4.1761	7	7	100	Pass
4.2105	6	6	100	Pass
4.2449	6	6	100	Pass
4.2793	6	6	100	Pass
4.3137	5	5	100	Pass
4.3481	5	5	100	Pass
4.3826	5	5	100	Pass
4.4170	4	4	100	Pass
4.4514	4	4	100	Pass
4.4858	4	4	100	Pass
4.5202	3	3	100	Pass
4.5546	2	2	100	Pass
4.5890	2	2	100	Pass
4.6234	1	1	100	Pass
4.6578	0	0	100	Pass
4.6922	0	0	0	Pass
4.7266	0	0	0	Pass
4.7610	0	0	0	Pass
4.7954	0	0	0	Pass
4.8298	0	0	0	Pass
4.8642	0	0	0	Pass
4.8986	0	0	0	Pass
4.9330	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #17

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

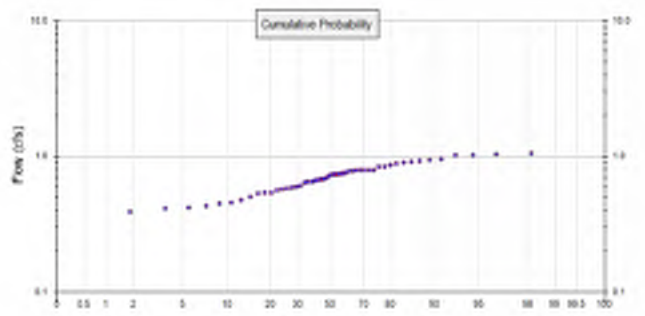
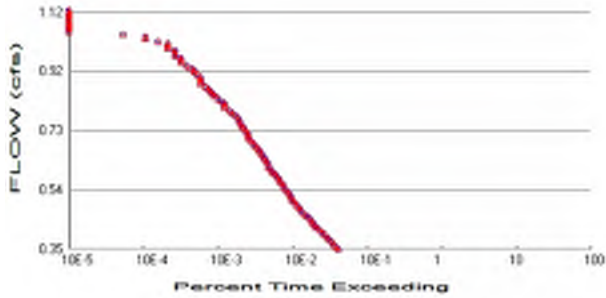
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 18



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #18

Total Pervious Area: 0.64
Total Impervious Area: 0.59

Mitigated Landuse Totals for POC #18

Total Pervious Area: 0.64
Total Impervious Area: 0.59

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #18

Return Period	Flow(cfs)
2 year	0.690518
5 year	0.85526
10 year	0.947136
25 year	1.048467
50 year	1.115338
100 year	1.176169

Flow Frequency Return Periods for Mitigated. POC #18

Return Period	Flow(cfs)
2 year	0.690518
5 year	0.85526
10 year	0.947136
25 year	1.048467
50 year	1.115338
100 year	1.176169

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #18

Year	Predeveloped	Mitigated
1956	0.794	0.794
1957	0.931	0.931
1958	0.677	0.677
1959	0.740	0.740
1960	0.784	0.784
1961	0.534	0.534
1962	1.041	1.041
1963	0.939	0.939
1964	0.757	0.757
1965	0.789	0.789
1966	0.797	0.797

1967	0.450	0.450
1968	0.747	0.747
1969	0.732	0.732
1970	0.594	0.594
1971	1.047	1.047
1972	0.906	0.906
1973	0.776	0.776
1974	0.796	0.796
1975	0.668	0.668
1976	0.838	0.838
1977	0.572	0.572
1978	1.028	1.028
1979	0.658	0.658
1980	0.581	0.581
1981	0.743	0.743
1982	0.861	0.861
1983	0.683	0.683
1984	0.652	0.652
1985	0.413	0.413
1986	0.788	0.788
1987	0.537	0.537
1988	0.839	0.839
1989	0.682	0.682
1990	0.946	0.946
1991	0.559	0.559
1992	0.415	0.415
1993	0.453	0.453
1994	0.647	0.647
1995	0.505	0.505
1996	0.643	0.643
1997	0.737	0.737
1998	0.430	0.430
1999	0.585	0.585
2000	0.541	0.541
2001	0.472	0.472
2002	0.608	0.608
2003	1.018	1.018
2004	0.918	0.918
2005	0.704	0.704
2006	0.724	0.724
2007	0.880	0.880
2008	0.392	0.392
2009	0.358	0.358

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #18

Rank	Predeveloped	Mitigated
1	1.0475	1.0475
2	1.0408	1.0408
3	1.0278	1.0278
4	1.0177	1.0177
5	0.9458	0.9458
6	0.9394	0.9394
7	0.9307	0.9307
8	0.9182	0.9182
9	0.9063	0.9063
10	0.8802	0.8802
11	0.8613	0.8613

12	0.8390	0.8390
13	0.8381	0.8381
14	0.7968	0.7968
15	0.7962	0.7962
16	0.7936	0.7936
17	0.7892	0.7892
18	0.7878	0.7878
19	0.7836	0.7836
20	0.7759	0.7759
21	0.7572	0.7572
22	0.7467	0.7467
23	0.7432	0.7432
24	0.7403	0.7403
25	0.7373	0.7373
26	0.7321	0.7321
27	0.7243	0.7243
28	0.7036	0.7036
29	0.6830	0.6830
30	0.6819	0.6819
31	0.6766	0.6766
32	0.6684	0.6684
33	0.6577	0.6577
34	0.6520	0.6520
35	0.6465	0.6465
36	0.6435	0.6435
37	0.6076	0.6076
38	0.5942	0.5942
39	0.5848	0.5848
40	0.5809	0.5809
41	0.5718	0.5718
42	0.5593	0.5593
43	0.5406	0.5406
44	0.5366	0.5366
45	0.5341	0.5341
46	0.5048	0.5048
47	0.4719	0.4719
48	0.4531	0.4531
49	0.4502	0.4502
50	0.4295	0.4295
51	0.4153	0.4153
52	0.4126	0.4126
53	0.3915	0.3915
54	0.3582	0.3582

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3453	770	770	100	Pass
0.3530	721	721	100	Pass
0.3608	676	676	100	Pass
0.3686	631	631	100	Pass
0.3764	586	586	100	Pass
0.3842	550	550	100	Pass
0.3919	514	514	100	Pass
0.3997	476	476	100	Pass
0.4075	436	436	100	Pass
0.4153	395	395	100	Pass
0.4230	375	375	100	Pass
0.4308	357	357	100	Pass
0.4386	335	335	100	Pass
0.4464	318	318	100	Pass
0.4542	291	291	100	Pass
0.4619	269	269	100	Pass
0.4697	248	248	100	Pass
0.4775	235	235	100	Pass
0.4853	217	217	100	Pass
0.4931	209	209	100	Pass
0.5008	197	197	100	Pass
0.5086	186	186	100	Pass
0.5164	178	178	100	Pass
0.5242	171	171	100	Pass
0.5319	163	163	100	Pass
0.5397	152	152	100	Pass
0.5475	145	145	100	Pass
0.5553	140	140	100	Pass
0.5631	130	130	100	Pass
0.5708	126	126	100	Pass
0.5786	120	120	100	Pass
0.5864	112	112	100	Pass
0.5942	103	103	100	Pass
0.6020	98	98	100	Pass
0.6097	93	93	100	Pass
0.6175	90	90	100	Pass
0.6253	88	88	100	Pass
0.6331	83	83	100	Pass
0.6408	79	79	100	Pass
0.6486	76	76	100	Pass
0.6564	73	73	100	Pass
0.6642	68	68	100	Pass
0.6720	65	65	100	Pass
0.6797	61	61	100	Pass
0.6875	57	57	100	Pass
0.6953	53	53	100	Pass
0.7031	49	49	100	Pass
0.7109	48	48	100	Pass
0.7186	48	48	100	Pass
0.7264	46	46	100	Pass
0.7342	43	43	100	Pass
0.7420	41	41	100	Pass
0.7497	38	38	100	Pass

0.7575	38	38	100	Pass
0.7653	36	36	100	Pass
0.7731	35	35	100	Pass
0.7809	32	32	100	Pass
0.7886	29	29	100	Pass
0.7964	27	27	100	Pass
0.8042	23	23	100	Pass
0.8120	23	23	100	Pass
0.8198	23	23	100	Pass
0.8275	21	21	100	Pass
0.8353	19	19	100	Pass
0.8431	17	17	100	Pass
0.8509	16	16	100	Pass
0.8586	15	15	100	Pass
0.8664	14	14	100	Pass
0.8742	13	13	100	Pass
0.8820	11	11	100	Pass
0.8898	11	11	100	Pass
0.8975	11	11	100	Pass
0.9053	11	11	100	Pass
0.9131	10	10	100	Pass
0.9209	9	9	100	Pass
0.9287	9	9	100	Pass
0.9364	8	8	100	Pass
0.9442	7	7	100	Pass
0.9520	6	6	100	Pass
0.9598	6	6	100	Pass
0.9675	6	6	100	Pass
0.9753	5	5	100	Pass
0.9831	5	5	100	Pass
0.9909	5	5	100	Pass
0.9987	4	4	100	Pass
1.0064	4	4	100	Pass
1.0142	4	4	100	Pass
1.0220	3	3	100	Pass
1.0298	2	2	100	Pass
1.0376	2	2	100	Pass
1.0453	1	1	100	Pass
1.0531	0	0	100	Pass
1.0609	0	0	0	Pass
1.0687	0	0	0	Pass
1.0764	0	0	0	Pass
1.0842	0	0	0	Pass
1.0920	0	0	0	Pass
1.0998	0	0	0	Pass
1.1076	0	0	0	Pass
1.1153	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #18

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

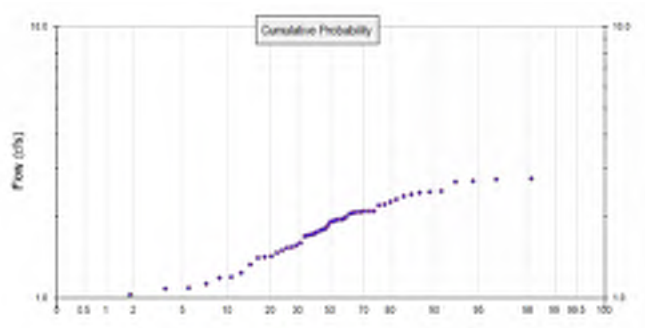
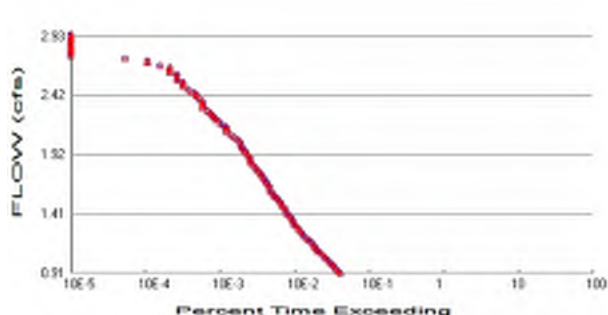
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 19



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #19

Total Pervious Area: 1.68
Total Impervious Area: 1.55

Mitigated Landuse Totals for POC #19

Total Pervious Area: 1.68
Total Impervious Area: 1.55

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #19

Return Period	Flow(cfs)
2 year	1.813524
5 year	2.246122
10 year	2.487375
25 year	2.753449
50 year	2.929037
100 year	3.088765

Flow Frequency Return Periods for Mitigated. POC #19

Return Period	Flow(cfs)
2 year	1.813524
5 year	2.246122
10 year	2.487375
25 year	2.753449
50 year	2.929037
100 year	3.088765

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #19

Year	Predeveloped	Mitigated
1956	2.084	2.084
1957	2.444	2.444
1958	1.777	1.777
1959	1.944	1.944
1960	2.058	2.058
1961	1.403	1.403
1962	2.733	2.733
1963	2.467	2.467
1964	1.989	1.989
1965	2.073	2.073
1966	2.093	2.093

1967	1.182	1.182
1968	1.961	1.961
1969	1.923	1.923
1970	1.561	1.561
1971	2.751	2.751
1972	2.380	2.380
1973	2.038	2.038
1974	2.091	2.091
1975	1.755	1.755
1976	2.201	2.201
1977	1.502	1.502
1978	2.699	2.699
1979	1.727	1.727
1980	1.526	1.526
1981	1.952	1.952
1982	2.262	2.262
1983	1.794	1.794
1984	1.712	1.712
1985	1.084	1.084
1986	2.069	2.069
1987	1.409	1.409
1988	2.203	2.203
1989	1.791	1.791
1990	2.484	2.484
1991	1.469	1.469
1992	1.091	1.091
1993	1.190	1.190
1994	1.698	1.698
1995	1.326	1.326
1996	1.690	1.690
1997	1.936	1.936
1998	1.128	1.128
1999	1.536	1.536
2000	1.420	1.420
2001	1.239	1.239
2002	1.596	1.596
2003	2.673	2.673
2004	2.411	2.411
2005	1.848	1.848
2006	1.902	1.902
2007	2.312	2.312
2008	1.028	1.028
2009	0.941	0.941

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #19

Rank	Predeveloped	Mitigated
1	2.7509	2.7509
2	2.7333	2.7333
3	2.6992	2.6992
4	2.6726	2.6726
5	2.4838	2.4838
6	2.4670	2.4670
7	2.4443	2.4443
8	2.4114	2.4114
9	2.3800	2.3800
10	2.3116	2.3116
11	2.2620	2.2620

12	2.2033	2.2033
13	2.2010	2.2010
14	2.0925	2.0925
15	2.0910	2.0910
16	2.0841	2.0841
17	2.0727	2.0727
18	2.0690	2.0690
19	2.0579	2.0579
20	2.0377	2.0377
21	1.9887	1.9887
22	1.9611	1.9611
23	1.9519	1.9519
24	1.9441	1.9441
25	1.9364	1.9364
26	1.9225	1.9225
27	1.9022	1.9022
28	1.8479	1.8479
29	1.7937	1.7937
30	1.7908	1.7908
31	1.7769	1.7769
32	1.7554	1.7554
33	1.7273	1.7273
34	1.7124	1.7124
35	1.6980	1.6980
36	1.6902	1.6902
37	1.5961	1.5961
38	1.5608	1.5608
39	1.5360	1.5360
40	1.5257	1.5257
41	1.5018	1.5018
42	1.4689	1.4689
43	1.4197	1.4197
44	1.4094	1.4094
45	1.4027	1.4027
46	1.3261	1.3261
47	1.2394	1.2394
48	1.1901	1.1901
49	1.1824	1.1824
50	1.1282	1.1282
51	1.0909	1.0909
52	1.0837	1.0837
53	1.0284	1.0284
54	0.9410	0.9410

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.9068	770	770	100	Pass
0.9272	721	721	100	Pass
0.9476	671	671	100	Pass
0.9680	628	628	100	Pass
0.9885	585	585	100	Pass
1.0089	551	551	100	Pass
1.0293	511	511	100	Pass
1.0498	474	474	100	Pass
1.0702	432	432	100	Pass
1.0906	395	395	100	Pass
1.1110	375	375	100	Pass
1.1315	356	356	100	Pass
1.1519	335	335	100	Pass
1.1723	318	318	100	Pass
1.1927	291	291	100	Pass
1.2132	269	269	100	Pass
1.2336	247	247	100	Pass
1.2540	234	234	100	Pass
1.2744	217	217	100	Pass
1.2949	209	209	100	Pass
1.3153	197	197	100	Pass
1.3357	186	186	100	Pass
1.3562	178	178	100	Pass
1.3766	171	171	100	Pass
1.3970	163	163	100	Pass
1.4174	151	151	100	Pass
1.4379	145	145	100	Pass
1.4583	140	140	100	Pass
1.4787	130	130	100	Pass
1.4991	126	126	100	Pass
1.5196	120	120	100	Pass
1.5400	112	112	100	Pass
1.5604	103	103	100	Pass
1.5809	98	98	100	Pass
1.6013	93	93	100	Pass
1.6217	89	89	100	Pass
1.6421	88	88	100	Pass
1.6626	83	83	100	Pass
1.6830	79	79	100	Pass
1.7034	76	76	100	Pass
1.7238	73	73	100	Pass
1.7443	68	68	100	Pass
1.7647	65	65	100	Pass
1.7851	61	61	100	Pass
1.8056	57	57	100	Pass
1.8260	53	53	100	Pass
1.8464	49	49	100	Pass
1.8668	48	48	100	Pass
1.8873	48	48	100	Pass
1.9077	46	46	100	Pass
1.9281	43	43	100	Pass
1.9485	41	41	100	Pass
1.9690	38	38	100	Pass

1.9894	37	37	100	Pass
2.0098	36	36	100	Pass
2.0302	35	35	100	Pass
2.0507	32	32	100	Pass
2.0711	29	29	100	Pass
2.0915	26	26	100	Pass
2.1120	23	23	100	Pass
2.1324	23	23	100	Pass
2.1528	23	23	100	Pass
2.1732	21	21	100	Pass
2.1937	19	19	100	Pass
2.2141	17	17	100	Pass
2.2345	16	16	100	Pass
2.2549	15	15	100	Pass
2.2754	14	14	100	Pass
2.2958	13	13	100	Pass
2.3162	11	11	100	Pass
2.3367	11	11	100	Pass
2.3571	11	11	100	Pass
2.3775	11	11	100	Pass
2.3979	10	10	100	Pass
2.4184	9	9	100	Pass
2.4388	9	9	100	Pass
2.4592	8	8	100	Pass
2.4796	7	7	100	Pass
2.5001	6	6	100	Pass
2.5205	6	6	100	Pass
2.5409	6	6	100	Pass
2.5614	5	5	100	Pass
2.5818	5	5	100	Pass
2.6022	5	5	100	Pass
2.6226	4	4	100	Pass
2.6431	4	4	100	Pass
2.6635	4	4	100	Pass
2.6839	3	3	100	Pass
2.7043	2	2	100	Pass
2.7248	2	2	100	Pass
2.7452	1	1	100	Pass
2.7656	0	0	100	Pass
2.7860	0	0	0	Pass
2.8065	0	0	0	Pass
2.8269	0	0	0	Pass
2.8473	0	0	0	Pass
2.8678	0	0	0	Pass
2.8882	0	0	0	Pass
2.9086	0	0	0	Pass
2.9290	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #19

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

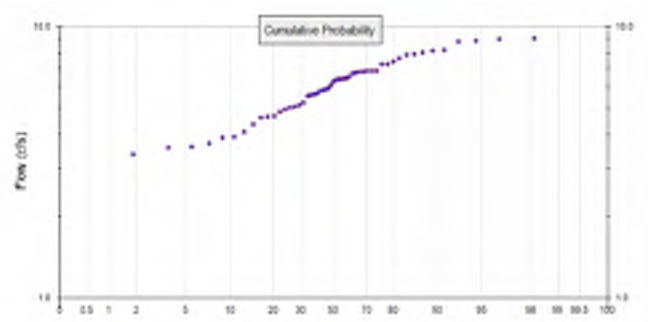
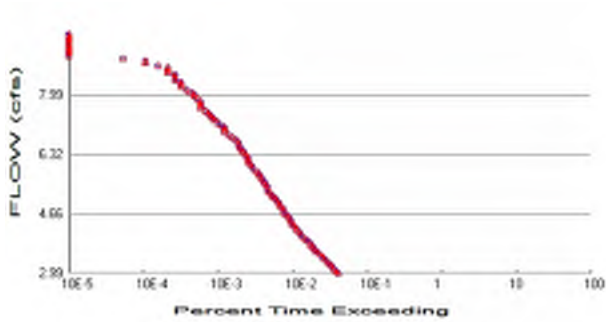
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 20



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #20

Total Pervious Area: 5.54
Total Impervious Area: 5.11

Mitigated Landuse Totals for POC #20

Total Pervious Area: 5.54
Total Impervious Area: 5.11

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #20

Return Period	Flow(cfs)
2 year	5.979352
5 year	7.405742
10 year	8.201219
25 year	9.078544
50 year	9.657514
100 year	10.184187

Flow Frequency Return Periods for Mitigated. POC #20

Return Period	Flow(cfs)
2 year	5.979352
5 year	7.405742
10 year	8.201219
25 year	9.078544
50 year	9.657514
100 year	10.184187

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #20

Year	Predeveloped	Mitigated
1956	6.871	6.871
1957	8.059	8.059
1958	5.859	5.859
1959	6.410	6.410
1960	6.785	6.785
1961	4.625	4.625
1962	9.012	9.012
1963	8.134	8.134
1964	6.557	6.557
1965	6.834	6.834
1966	6.899	6.899

1967	3.898	3.898
1968	6.466	6.466
1969	6.339	6.339
1970	5.146	5.146
1971	9.070	9.070
1972	7.847	7.847
1973	6.719	6.719
1974	6.894	6.894
1975	5.788	5.788
1976	7.257	7.257
1977	4.951	4.951
1978	8.900	8.900
1979	5.695	5.695
1980	5.030	5.030
1981	6.436	6.436
1982	7.458	7.458
1983	5.914	5.914
1984	5.646	5.646
1985	3.573	3.573
1986	6.822	6.822
1987	4.647	4.647
1988	7.265	7.265
1989	5.904	5.904
1990	8.189	8.189
1991	4.843	4.843
1992	3.597	3.597
1993	3.924	3.924
1994	5.598	5.598
1995	4.372	4.372
1996	5.573	5.573
1997	6.384	6.384
1998	3.720	3.720
1999	5.064	5.064
2000	4.681	4.681
2001	4.086	4.086
2002	5.262	5.262
2003	8.812	8.812
2004	7.951	7.951
2005	6.093	6.093
2006	6.272	6.272
2007	7.622	7.622
2008	3.391	3.391
2009	3.102	3.102

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #20

Rank	Predeveloped	Mitigated
1	9.0700	9.0700
2	9.0121	9.0121
3	8.8995	8.8995
4	8.8121	8.8121
5	8.1893	8.1893
6	8.1341	8.1341
7	8.0593	8.0593
8	7.9505	7.9505
9	7.8473	7.8473
10	7.6216	7.6216
11	7.4578	7.4578

12	7.2647	7.2647
13	7.2571	7.2571
14	6.8994	6.8994
15	6.8943	6.8943
16	6.8715	6.8715
17	6.8340	6.8340
18	6.8218	6.8218
19	6.7853	6.7853
20	6.7186	6.7186
21	6.5570	6.5570
22	6.4659	6.4659
23	6.4357	6.4357
24	6.4099	6.4099
25	6.3844	6.3844
26	6.3389	6.3389
27	6.2716	6.2716
28	6.0926	6.0926
29	5.9138	5.9138
30	5.9044	5.9044
31	5.8587	5.8587
32	5.7876	5.7876
33	5.6950	5.6950
34	5.6460	5.6460
35	5.5985	5.5985
36	5.5727	5.5727
37	5.2620	5.2620
38	5.1459	5.1459
39	5.0642	5.0642
40	5.0302	5.0302
41	4.9514	4.9514
42	4.8431	4.8431
43	4.6808	4.6808
44	4.6469	4.6469
45	4.6249	4.6249
46	4.3720	4.3720
47	4.0862	4.0862
48	3.9236	3.9236
49	3.8984	3.8984
50	3.7196	3.7196
51	3.5966	3.5966
52	3.5729	3.5729
53	3.3907	3.3907
54	3.1023	3.1023

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.9897	769	769	100	Pass
3.0570	721	721	100	Pass
3.1244	670	670	100	Pass
3.1917	628	628	100	Pass
3.2591	583	583	100	Pass
3.3264	550	550	100	Pass
3.3938	511	511	100	Pass
3.4611	473	473	100	Pass
3.5285	432	432	100	Pass
3.5958	395	395	100	Pass
3.6632	375	375	100	Pass
3.7305	356	356	100	Pass
3.7979	334	334	100	Pass
3.8653	318	318	100	Pass
3.9326	291	291	100	Pass
4.0000	269	269	100	Pass
4.0673	247	247	100	Pass
4.1347	235	235	100	Pass
4.2020	216	216	100	Pass
4.2694	209	209	100	Pass
4.3367	197	197	100	Pass
4.4041	186	186	100	Pass
4.4714	178	178	100	Pass
4.5388	171	171	100	Pass
4.6061	163	163	100	Pass
4.6735	151	151	100	Pass
4.7408	145	145	100	Pass
4.8082	140	140	100	Pass
4.8755	130	130	100	Pass
4.9429	126	126	100	Pass
5.0102	119	119	100	Pass
5.0776	112	112	100	Pass
5.1449	103	103	100	Pass
5.2123	98	98	100	Pass
5.2796	92	92	100	Pass
5.3470	89	89	100	Pass
5.4143	88	88	100	Pass
5.4817	83	83	100	Pass
5.5490	79	79	100	Pass
5.6164	76	76	100	Pass
5.6838	73	73	100	Pass
5.7511	68	68	100	Pass
5.8185	65	65	100	Pass
5.8858	61	61	100	Pass
5.9532	56	56	100	Pass
6.0205	53	53	100	Pass
6.0879	49	49	100	Pass
6.1552	48	48	100	Pass
6.2226	48	48	100	Pass
6.2899	46	46	100	Pass
6.3573	43	43	100	Pass
6.4246	41	41	100	Pass
6.4920	38	38	100	Pass

6.5593	37	37	100	Pass
6.6267	36	36	100	Pass
6.6940	35	35	100	Pass
6.7614	32	32	100	Pass
6.8287	29	29	100	Pass
6.8961	26	26	100	Pass
6.9634	23	23	100	Pass
7.0308	23	23	100	Pass
7.0981	23	23	100	Pass
7.1655	21	21	100	Pass
7.2328	19	19	100	Pass
7.3002	17	17	100	Pass
7.3675	16	16	100	Pass
7.4349	15	15	100	Pass
7.5023	14	14	100	Pass
7.5696	13	13	100	Pass
7.6370	11	11	100	Pass
7.7043	11	11	100	Pass
7.7717	11	11	100	Pass
7.8390	11	11	100	Pass
7.9064	10	10	100	Pass
7.9737	9	9	100	Pass
8.0411	9	9	100	Pass
8.1084	8	8	100	Pass
8.1758	7	7	100	Pass
8.2431	6	6	100	Pass
8.3105	6	6	100	Pass
8.3778	6	6	100	Pass
8.4452	5	5	100	Pass
8.5125	5	5	100	Pass
8.5799	5	5	100	Pass
8.6472	4	4	100	Pass
8.7146	4	4	100	Pass
8.7819	4	4	100	Pass
8.8493	3	3	100	Pass
8.9166	2	2	100	Pass
8.9840	2	2	100	Pass
9.0513	1	1	100	Pass
9.1187	0	0	100	Pass
9.1861	0	0	0	Pass
9.2534	0	0	0	Pass
9.3208	0	0	0	Pass
9.3881	0	0	0	Pass
9.4555	0	0	0	Pass
9.5228	0	0	0	Pass
9.5902	0	0	0	Pass
9.6575	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #20

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

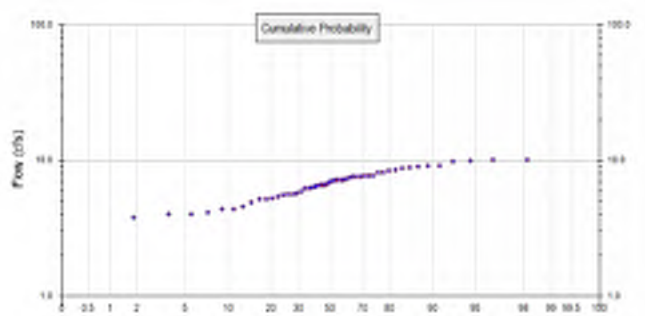
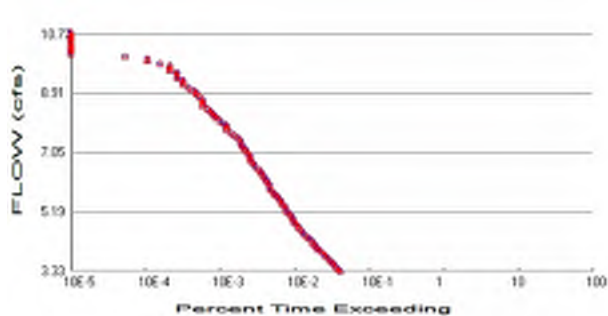
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 21



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #21

Total Pervious Area: 6.18
 Total Impervious Area: 5.7

Mitigated Landuse Totals for POC #21

Total Pervious Area: 6.18
 Total Impervious Area: 5.7

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #21

Return Period	Flow(cfs)
2 year	6.669869
5 year	8.261
10 year	9.148351
25 year	10.127005
50 year	10.772845
100 year	11.360348

Flow Frequency Return Periods for Mitigated. POC #21

Return Period	Flow(cfs)
2 year	6.669869
5 year	8.261
10 year	9.148351
25 year	10.127005
50 year	10.772845
100 year	11.360348

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #21

Year	Predeveloped	Mitigated
1956	7.665	7.665
1957	8.990	8.990
1958	6.535	6.535
1959	7.150	7.150
1960	7.569	7.569
1961	5.159	5.159
1962	10.053	10.053
1963	9.074	9.074
1964	7.314	7.314
1965	7.623	7.623
1966	7.696	7.696

1967	4.349	4.349
1968	7.213	7.213
1969	7.071	7.071
1970	5.740	5.740
1971	10.117	10.117
1972	8.754	8.754
1973	7.495	7.495
1974	7.690	7.690
1975	6.456	6.456
1976	8.095	8.095
1977	5.523	5.523
1978	9.927	9.927
1979	6.353	6.353
1980	5.611	5.611
1981	7.179	7.179
1982	8.319	8.319
1983	6.597	6.597
1984	6.298	6.298
1985	3.985	3.985
1986	7.610	7.610
1987	5.184	5.184
1988	8.104	8.104
1989	6.586	6.586
1990	9.135	9.135
1991	5.402	5.402
1992	4.012	4.012
1993	4.377	4.377
1994	6.245	6.245
1995	4.877	4.877
1996	6.216	6.216
1997	7.122	7.122
1998	4.149	4.149
1999	5.649	5.649
2000	5.221	5.221
2001	4.558	4.558
2002	5.870	5.870
2003	9.830	9.830
2004	8.869	8.869
2005	6.796	6.796
2006	6.996	6.996
2007	8.502	8.502
2008	3.782	3.782
2009	3.461	3.461

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #21

Rank	Predeveloped	Mitigated
1	10.1174	10.1174
2	10.0529	10.0529
3	9.9273	9.9273
4	9.8297	9.8297
5	9.1351	9.1351
6	9.0735	9.0735
7	8.9900	8.9900
8	8.8687	8.8687
9	8.7536	8.7536
10	8.5018	8.5018
11	8.3191	8.3191

12	8.1037	8.1037
13	8.0952	8.0952
14	7.6962	7.6962
15	7.6905	7.6905
16	7.6651	7.6651
17	7.6232	7.6232
18	7.6096	7.6096
19	7.5689	7.5689
20	7.4945	7.4945
21	7.3142	7.3142
22	7.2126	7.2126
23	7.1789	7.1789
24	7.1502	7.1502
25	7.1216	7.1216
26	7.0709	7.0709
27	6.9959	6.9959
28	6.7962	6.7962
29	6.5968	6.5968
30	6.5863	6.5863
31	6.5352	6.5352
32	6.4560	6.4560
33	6.3527	6.3527
34	6.2980	6.2980
35	6.2450	6.2450
36	6.2162	6.2162
37	5.8696	5.8696
38	5.7401	5.7401
39	5.6490	5.6490
40	5.6111	5.6111
41	5.5232	5.5232
42	5.4024	5.4024
43	5.2213	5.2213
44	5.1836	5.1836
45	5.1590	5.1590
46	4.8768	4.8768
47	4.5580	4.5580
48	4.3767	4.3767
49	4.3486	4.3486
50	4.1492	4.1492
51	4.0119	4.0119
52	3.9855	3.9855
53	3.7822	3.7822
54	3.4606	3.4606

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
3.3349	769	769	100	Pass
3.4101	721	721	100	Pass
3.4852	670	670	100	Pass
3.5603	628	628	100	Pass
3.6355	584	584	100	Pass
3.7106	550	550	100	Pass
3.7857	511	511	100	Pass
3.8608	473	473	100	Pass
3.9360	432	432	100	Pass
4.0111	395	395	100	Pass
4.0862	375	375	100	Pass
4.1614	356	356	100	Pass
4.2365	334	334	100	Pass
4.3116	318	318	100	Pass
4.3868	291	291	100	Pass
4.4619	269	269	100	Pass
4.5370	247	247	100	Pass
4.6122	234	234	100	Pass
4.6873	216	216	100	Pass
4.7624	209	209	100	Pass
4.8375	196	196	100	Pass
4.9127	186	186	100	Pass
4.9878	178	178	100	Pass
5.0629	171	171	100	Pass
5.1381	163	163	100	Pass
5.2132	151	151	100	Pass
5.2883	145	145	100	Pass
5.3635	140	140	100	Pass
5.4386	130	130	100	Pass
5.5137	126	126	100	Pass
5.5888	120	120	100	Pass
5.6640	112	112	100	Pass
5.7391	103	103	100	Pass
5.8142	98	98	100	Pass
5.8894	92	92	100	Pass
5.9645	89	89	100	Pass
6.0396	88	88	100	Pass
6.1148	83	83	100	Pass
6.1899	79	79	100	Pass
6.2650	76	76	100	Pass
6.3402	73	73	100	Pass
6.4153	68	68	100	Pass
6.4904	65	65	100	Pass
6.5655	61	61	100	Pass
6.6407	56	56	100	Pass
6.7158	53	53	100	Pass
6.7909	49	49	100	Pass
6.8661	48	48	100	Pass
6.9412	48	48	100	Pass
7.0163	46	46	100	Pass
7.0915	43	43	100	Pass
7.1666	41	41	100	Pass
7.2417	38	38	100	Pass

7.3168	37	37	100	Pass
7.3920	36	36	100	Pass
7.4671	35	35	100	Pass
7.5422	32	32	100	Pass
7.6174	29	29	100	Pass
7.6925	26	26	100	Pass
7.7676	23	23	100	Pass
7.8428	23	23	100	Pass
7.9179	23	23	100	Pass
7.9930	21	21	100	Pass
8.0682	19	19	100	Pass
8.1433	17	17	100	Pass
8.2184	16	16	100	Pass
8.2935	15	15	100	Pass
8.3687	14	14	100	Pass
8.4438	13	13	100	Pass
8.5189	11	11	100	Pass
8.5941	11	11	100	Pass
8.6692	11	11	100	Pass
8.7443	11	11	100	Pass
8.8195	10	10	100	Pass
8.8946	9	9	100	Pass
8.9697	9	9	100	Pass
9.0448	8	8	100	Pass
9.1200	7	7	100	Pass
9.1951	6	6	100	Pass
9.2702	6	6	100	Pass
9.3454	6	6	100	Pass
9.4205	5	5	100	Pass
9.4956	5	5	100	Pass
9.5708	5	5	100	Pass
9.6459	4	4	100	Pass
9.7210	4	4	100	Pass
9.7961	4	4	100	Pass
9.8713	3	3	100	Pass
9.9464	2	2	100	Pass
10.0215	2	2	100	Pass
10.0967	1	1	100	Pass
10.1718	0	0	100	Pass
10.2469	0	0	0	Pass
10.3221	0	0	0	Pass
10.3972	0	0	0	Pass
10.4723	0	0	0	Pass
10.5475	0	0	0	Pass
10.6226	0	0	0	Pass
10.6977	0	0	0	Pass
10.7728	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #21

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

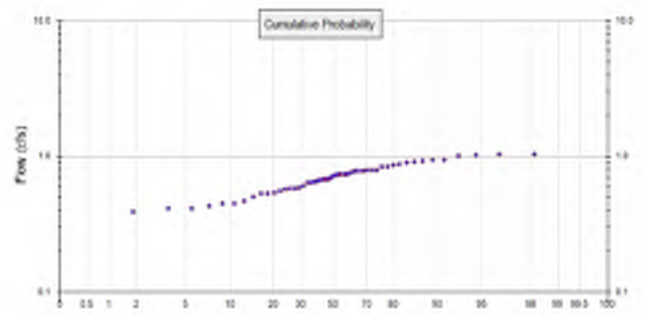
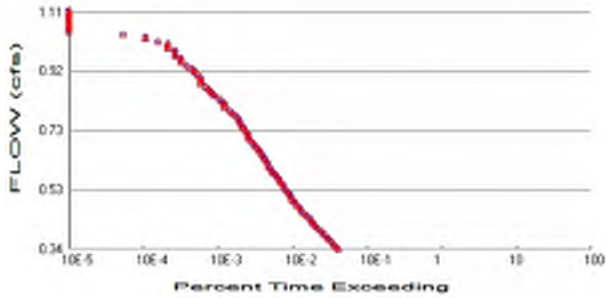
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 22



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #22

Total Pervious Area: 0.63
Total Impervious Area: 0.59

Mitigated Landuse Totals for POC #22

Total Pervious Area: 0.63
Total Impervious Area: 0.59

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #22

Return Period	Flow(cfs)
2 year	0.686477
5 year	0.849754
10 year	0.940774
25 year	1.041132
50 year	1.107346
100 year	1.167571

Flow Frequency Return Periods for Mitigated. POC #22

Return Period	Flow(cfs)
2 year	0.686477
5 year	0.849754
10 year	0.940774
25 year	1.041132
50 year	1.107346
100 year	1.167571

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #22

Year	Predeveloped	Mitigated
1956	0.788	0.788
1957	0.925	0.925
1958	0.673	0.673
1959	0.735	0.735
1960	0.778	0.778
1961	0.531	0.531
1962	1.034	1.034
1963	0.933	0.933
1964	0.753	0.753
1965	0.784	0.784
1966	0.791	0.791

1967	0.448	0.448
1968	0.742	0.742
1969	0.727	0.727
1970	0.591	0.591
1971	1.040	1.040
1972	0.900	0.900
1973	0.771	0.771
1974	0.791	0.791
1975	0.664	0.664
1976	0.833	0.833
1977	0.569	0.569
1978	1.022	1.022
1979	0.654	0.654
1980	0.577	0.577
1981	0.739	0.739
1982	0.856	0.856
1983	0.679	0.679
1984	0.648	0.648
1985	0.411	0.411
1986	0.783	0.783
1987	0.533	0.533
1988	0.834	0.834
1989	0.678	0.678
1990	0.939	0.939
1991	0.556	0.556
1992	0.413	0.413
1993	0.451	0.451
1994	0.643	0.643
1995	0.503	0.503
1996	0.641	0.641
1997	0.733	0.733
1998	0.427	0.427
1999	0.581	0.581
2000	0.537	0.537
2001	0.470	0.470
2002	0.607	0.607
2003	1.011	1.011
2004	0.912	0.912
2005	0.699	0.699
2006	0.720	0.720
2007	0.874	0.874
2008	0.390	0.390
2009	0.357	0.357

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #22

Rank	Predeveloped	Mitigated
1	1.0404	1.0404
2	1.0336	1.0336
3	1.0215	1.0215
4	1.0106	1.0106
5	0.9394	0.9394
6	0.9331	0.9331
7	0.9250	0.9250
8	0.9121	0.9121
9	0.8999	0.8999
10	0.8743	0.8743
11	0.8562	0.8562

12	0.8336	0.8336
13	0.8327	0.8327
14	0.7914	0.7914
15	0.7908	0.7908
16	0.7881	0.7881
17	0.7842	0.7842
18	0.7829	0.7829
19	0.7783	0.7783
20	0.7713	0.7713
21	0.7528	0.7528
22	0.7419	0.7419
23	0.7389	0.7389
24	0.7353	0.7353
25	0.7331	0.7331
26	0.7271	0.7271
27	0.7197	0.7197
28	0.6992	0.6992
29	0.6789	0.6789
30	0.6779	0.6779
31	0.6729	0.6729
32	0.6643	0.6643
33	0.6536	0.6536
34	0.6479	0.6479
35	0.6427	0.6427
36	0.6412	0.6412
37	0.6067	0.6067
38	0.5914	0.5914
39	0.5814	0.5814
40	0.5773	0.5773
41	0.5685	0.5685
42	0.5559	0.5559
43	0.5374	0.5374
44	0.5334	0.5334
45	0.5306	0.5306
46	0.5034	0.5034
47	0.4699	0.4699
48	0.4512	0.4512
49	0.4478	0.4478
50	0.4275	0.4275
51	0.4134	0.4134
52	0.4110	0.4110
53	0.3898	0.3898
54	0.3568	0.3568

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3432	773	773	100	Pass
0.3510	728	728	100	Pass
0.3587	679	679	100	Pass
0.3664	633	633	100	Pass
0.3741	587	587	100	Pass
0.3818	552	552	100	Pass
0.3895	513	513	100	Pass
0.3973	476	476	100	Pass
0.4050	439	439	100	Pass
0.4127	401	401	100	Pass
0.4204	376	376	100	Pass
0.4281	357	357	100	Pass
0.4359	335	335	100	Pass
0.4436	320	320	100	Pass
0.4513	293	293	100	Pass
0.4590	269	269	100	Pass
0.4667	248	248	100	Pass
0.4744	238	238	100	Pass
0.4822	218	218	100	Pass
0.4899	209	209	100	Pass
0.4976	199	199	100	Pass
0.5053	186	186	100	Pass
0.5130	178	178	100	Pass
0.5208	172	172	100	Pass
0.5285	163	163	100	Pass
0.5362	152	152	100	Pass
0.5439	145	145	100	Pass
0.5516	141	141	100	Pass
0.5593	130	130	100	Pass
0.5671	126	126	100	Pass
0.5748	120	120	100	Pass
0.5825	112	112	100	Pass
0.5902	103	103	100	Pass
0.5979	98	98	100	Pass
0.6057	94	94	100	Pass
0.6134	90	90	100	Pass
0.6211	88	88	100	Pass
0.6288	83	83	100	Pass
0.6365	79	79	100	Pass
0.6443	76	76	100	Pass
0.6520	73	73	100	Pass
0.6597	68	68	100	Pass
0.6674	65	65	100	Pass
0.6751	61	61	100	Pass
0.6828	57	57	100	Pass
0.6906	53	53	100	Pass
0.6983	49	49	100	Pass
0.7060	48	48	100	Pass
0.7137	48	48	100	Pass
0.7214	46	46	100	Pass
0.7292	43	43	100	Pass
0.7369	41	41	100	Pass
0.7446	38	38	100	Pass

0.7523	38	38	100	Pass
0.7600	36	36	100	Pass
0.7677	35	35	100	Pass
0.7755	32	32	100	Pass
0.7832	29	29	100	Pass
0.7909	27	27	100	Pass
0.7986	23	23	100	Pass
0.8063	23	23	100	Pass
0.8141	23	23	100	Pass
0.8218	21	21	100	Pass
0.8295	20	20	100	Pass
0.8372	17	17	100	Pass
0.8449	16	16	100	Pass
0.8526	15	15	100	Pass
0.8604	14	14	100	Pass
0.8681	13	13	100	Pass
0.8758	11	11	100	Pass
0.8835	11	11	100	Pass
0.8912	11	11	100	Pass
0.8990	11	11	100	Pass
0.9067	10	10	100	Pass
0.9144	9	9	100	Pass
0.9221	9	9	100	Pass
0.9298	8	8	100	Pass
0.9375	7	7	100	Pass
0.9453	6	6	100	Pass
0.9530	6	6	100	Pass
0.9607	6	6	100	Pass
0.9684	5	5	100	Pass
0.9761	5	5	100	Pass
0.9839	5	5	100	Pass
0.9916	4	4	100	Pass
0.9993	4	4	100	Pass
1.0070	4	4	100	Pass
1.0147	3	3	100	Pass
1.0224	2	2	100	Pass
1.0302	2	2	100	Pass
1.0379	1	1	100	Pass
1.0456	0	0	100	Pass
1.0533	0	0	0	Pass
1.0610	0	0	0	Pass
1.0688	0	0	0	Pass
1.0765	0	0	0	Pass
1.0842	0	0	0	Pass
1.0919	0	0	0	Pass
1.0996	0	0	0	Pass
1.1073	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #22

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

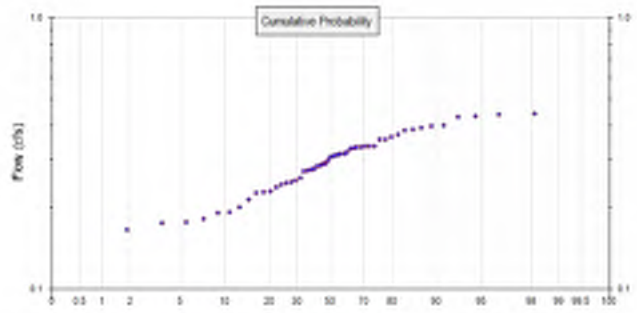
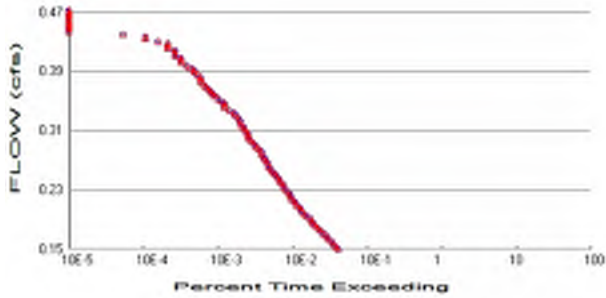
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 23



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #23

Total Pervious Area: 0.27
 Total Impervious Area: 0.25

Mitigated Landuse Totals for POC #23

Total Pervious Area: 0.27
 Total Impervious Area: 0.25

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #23

Return Period	Flow(cfs)
2 year	0.292113
5 year	0.361745
10 year	0.400574
25 year	0.443395
50 year	0.471652
100 year	0.497356

Flow Frequency Return Periods for Mitigated. POC #23

Return Period	Flow(cfs)
2 year	0.292113
5 year	0.361745
10 year	0.400574
25 year	0.443395
50 year	0.471652
100 year	0.497356

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #23

Year	Predeveloped	Mitigated
1956	0.336	0.336
1957	0.394	0.394
1958	0.286	0.286
1959	0.313	0.313
1960	0.331	0.331
1961	0.226	0.226
1962	0.440	0.440
1963	0.397	0.397
1964	0.320	0.320
1965	0.334	0.334
1966	0.337	0.337

1967	0.190	0.190
1968	0.316	0.316
1969	0.310	0.310
1970	0.251	0.251
1971	0.443	0.443
1972	0.383	0.383
1973	0.328	0.328
1974	0.337	0.337
1975	0.283	0.283
1976	0.354	0.354
1977	0.242	0.242
1978	0.435	0.435
1979	0.278	0.278
1980	0.246	0.246
1981	0.314	0.314
1982	0.364	0.364
1983	0.289	0.289
1984	0.276	0.276
1985	0.175	0.175
1986	0.333	0.333
1987	0.227	0.227
1988	0.355	0.355
1989	0.288	0.288
1990	0.400	0.400
1991	0.237	0.237
1992	0.176	0.176
1993	0.192	0.192
1994	0.273	0.273
1995	0.214	0.214
1996	0.272	0.272
1997	0.312	0.312
1998	0.182	0.182
1999	0.247	0.247
2000	0.229	0.229
2001	0.200	0.200
2002	0.257	0.257
2003	0.430	0.430
2004	0.388	0.388
2005	0.298	0.298
2006	0.306	0.306
2007	0.372	0.372
2008	0.166	0.166
2009	0.152	0.152

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #23

Rank	Predeveloped	Mitigated
1	0.4430	0.4430
2	0.4402	0.4402
3	0.4348	0.4348
4	0.4304	0.4304
5	0.4000	0.4000
6	0.3973	0.3973
7	0.3937	0.3937
8	0.3883	0.3883
9	0.3833	0.3833
10	0.3723	0.3723
11	0.3643	0.3643

12	0.3549	0.3549
13	0.3545	0.3545
14	0.3370	0.3370
15	0.3367	0.3367
16	0.3356	0.3356
17	0.3338	0.3338
18	0.3332	0.3332
19	0.3314	0.3314
20	0.3282	0.3282
21	0.3203	0.3203
22	0.3158	0.3158
23	0.3144	0.3144
24	0.3131	0.3131
25	0.3119	0.3119
26	0.3096	0.3096
27	0.3064	0.3064
28	0.2976	0.2976
29	0.2889	0.2889
30	0.2885	0.2885
31	0.2862	0.2862
32	0.2827	0.2827
33	0.2782	0.2782
34	0.2758	0.2758
35	0.2735	0.2735
36	0.2724	0.2724
37	0.2573	0.2573
38	0.2515	0.2515
39	0.2474	0.2474
40	0.2457	0.2457
41	0.2419	0.2419
42	0.2366	0.2366
43	0.2287	0.2287
44	0.2270	0.2270
45	0.2259	0.2259
46	0.2137	0.2137
47	0.1997	0.1997
48	0.1918	0.1918
49	0.1905	0.1905
50	0.1818	0.1818
51	0.1758	0.1758
52	0.1746	0.1746
53	0.1657	0.1657
54	0.1516	0.1516

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1461	770	770	100	Pass
0.1493	726	726	100	Pass
0.1526	680	680	100	Pass
0.1559	641	641	100	Pass
0.1592	586	586	100	Pass
0.1625	551	551	100	Pass
0.1658	521	521	100	Pass
0.1691	474	474	100	Pass
0.1724	438	438	100	Pass
0.1757	405	405	100	Pass
0.1789	378	378	100	Pass
0.1822	357	357	100	Pass
0.1855	335	335	100	Pass
0.1888	321	321	100	Pass
0.1921	291	291	100	Pass
0.1954	269	269	100	Pass
0.1987	250	250	100	Pass
0.2020	239	239	100	Pass
0.2053	218	218	100	Pass
0.2085	209	209	100	Pass
0.2118	201	201	100	Pass
0.2151	186	186	100	Pass
0.2184	178	178	100	Pass
0.2217	172	172	100	Pass
0.2250	165	165	100	Pass
0.2283	152	152	100	Pass
0.2316	145	145	100	Pass
0.2349	141	141	100	Pass
0.2381	130	130	100	Pass
0.2414	126	126	100	Pass
0.2447	120	120	100	Pass
0.2480	112	112	100	Pass
0.2513	104	104	100	Pass
0.2546	98	98	100	Pass
0.2579	95	95	100	Pass
0.2612	90	90	100	Pass
0.2645	88	88	100	Pass
0.2677	83	83	100	Pass
0.2710	79	79	100	Pass
0.2743	76	76	100	Pass
0.2776	73	73	100	Pass
0.2809	71	71	100	Pass
0.2842	65	65	100	Pass
0.2875	61	61	100	Pass
0.2908	58	58	100	Pass
0.2941	53	53	100	Pass
0.2973	49	49	100	Pass
0.3006	48	48	100	Pass
0.3039	48	48	100	Pass
0.3072	46	46	100	Pass
0.3105	43	43	100	Pass
0.3138	42	42	100	Pass
0.3171	38	38	100	Pass

0.3204	38	38	100	Pass
0.3237	37	37	100	Pass
0.3269	35	35	100	Pass
0.3302	32	32	100	Pass
0.3335	31	31	100	Pass
0.3368	27	27	100	Pass
0.3401	23	23	100	Pass
0.3434	23	23	100	Pass
0.3467	23	23	100	Pass
0.3500	21	21	100	Pass
0.3533	19	19	100	Pass
0.3565	17	17	100	Pass
0.3598	16	16	100	Pass
0.3631	15	15	100	Pass
0.3664	14	14	100	Pass
0.3697	13	13	100	Pass
0.3730	12	12	100	Pass
0.3763	11	11	100	Pass
0.3796	11	11	100	Pass
0.3829	11	11	100	Pass
0.3861	10	10	100	Pass
0.3894	9	9	100	Pass
0.3927	9	9	100	Pass
0.3960	8	8	100	Pass
0.3993	7	7	100	Pass
0.4026	6	6	100	Pass
0.4059	6	6	100	Pass
0.4092	6	6	100	Pass
0.4125	5	5	100	Pass
0.4157	5	5	100	Pass
0.4190	5	5	100	Pass
0.4223	4	4	100	Pass
0.4256	4	4	100	Pass
0.4289	4	4	100	Pass
0.4322	3	3	100	Pass
0.4355	2	2	100	Pass
0.4388	2	2	100	Pass
0.4421	1	1	100	Pass
0.4453	0	0	100	Pass
0.4486	0	0	0	Pass
0.4519	0	0	0	Pass
0.4552	0	0	0	Pass
0.4585	0	0	0	Pass
0.4618	0	0	0	Pass
0.4651	0	0	0	Pass
0.4684	0	0	0	Pass
0.4717	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #23

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

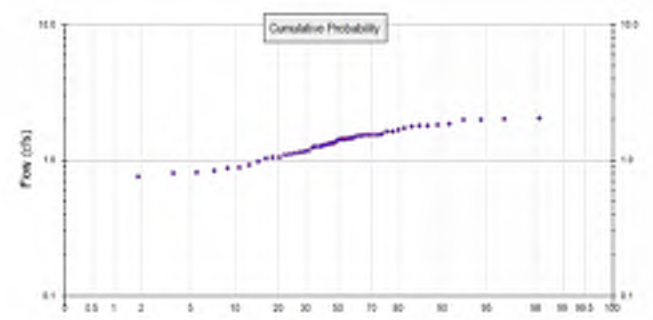
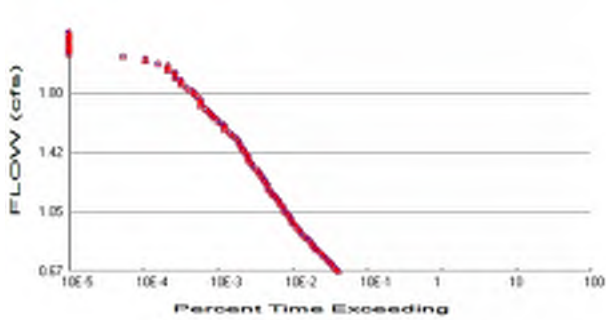
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 24



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #24

Total Pervious Area: 1.25
Total Impervious Area: 1.15

Mitigated Landuse Totals for POC #24

Total Pervious Area: 1.25
Total Impervious Area: 1.15

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #24

Return Period	Flow(cfs)
2 year	1.346952
5 year	1.668433
10 year	1.847732
25 year	2.045487
50 year	2.175996
100 year	2.29472

Flow Frequency Return Periods for Mitigated. POC #24

Return Period	Flow(cfs)
2 year	1.346952
5 year	1.668433
10 year	1.847732
25 year	2.045487
50 year	2.175996
100 year	2.29472

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #24

Year	Predeveloped	Mitigated
1956	1.548	1.548
1957	1.816	1.816
1958	1.320	1.320
1959	1.444	1.444
1960	1.529	1.529
1961	1.042	1.042
1962	2.030	2.030
1963	1.833	1.833
1964	1.477	1.477
1965	1.540	1.540
1966	1.554	1.554

1967	0.878	0.878
1968	1.457	1.457
1969	1.428	1.428
1970	1.159	1.159
1971	2.043	2.043
1972	1.768	1.768
1973	1.514	1.514
1974	1.553	1.553
1975	1.304	1.304
1976	1.635	1.635
1977	1.115	1.115
1978	2.005	2.005
1979	1.283	1.283
1980	1.133	1.133
1981	1.450	1.450
1982	1.680	1.680
1983	1.332	1.332
1984	1.272	1.272
1985	0.805	0.805
1986	1.537	1.537
1987	1.047	1.047
1988	1.637	1.637
1989	1.330	1.330
1990	1.845	1.845
1991	1.091	1.091
1992	0.810	0.810
1993	0.884	0.884
1994	1.261	1.261
1995	0.984	0.984
1996	1.255	1.255
1997	1.438	1.438
1998	0.838	0.838
1999	1.141	1.141
2000	1.054	1.054
2001	0.920	0.920
2002	1.185	1.185
2003	1.985	1.985
2004	1.791	1.791
2005	1.373	1.373
2006	1.413	1.413
2007	1.717	1.717
2008	0.764	0.764
2009	0.699	0.699

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #24

Rank	Predeveloped	Mitigated
1	2.0435	2.0435
2	2.0305	2.0305
3	2.0048	2.0048
4	1.9854	1.9854
5	1.8451	1.8451
6	1.8326	1.8326
7	1.8156	1.8156
8	1.7912	1.7912
9	1.7681	1.7681
10	1.7171	1.7171
11	1.6800	1.6800

12	1.6366	1.6366
13	1.6350	1.6350
14	1.5545	1.5545
15	1.5533	1.5533
16	1.5482	1.5482
17	1.5396	1.5396
18	1.5368	1.5368
19	1.5288	1.5288
20	1.5135	1.5135
21	1.4771	1.4771
22	1.4567	1.4567
23	1.4497	1.4497
24	1.4441	1.4441
25	1.4381	1.4381
26	1.4282	1.4282
27	1.4129	1.4129
28	1.3726	1.3726
29	1.3322	1.3322
30	1.3301	1.3301
31	1.3197	1.3197
32	1.3038	1.3038
33	1.2830	1.2830
34	1.2720	1.2720
35	1.2612	1.2612
36	1.2549	1.2549
37	1.1845	1.1845
38	1.1590	1.1590
39	1.1408	1.1408
40	1.1332	1.1332
41	1.1154	1.1154
42	1.0910	1.0910
43	1.0544	1.0544
44	1.0468	1.0468
45	1.0420	1.0420
46	0.9844	0.9844
47	0.9202	0.9202
48	0.8836	0.8836
49	0.8781	0.8781
50	0.8378	0.8378
51	0.8100	0.8100
52	0.8046	0.8046
53	0.7636	0.7636
54	0.6987	0.6987

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.6735	769	769	100	Pass
0.6887	722	722	100	Pass
0.7038	672	672	100	Pass
0.7190	628	628	100	Pass
0.7342	584	584	100	Pass
0.7494	550	550	100	Pass
0.7645	511	511	100	Pass
0.7797	474	474	100	Pass
0.7949	434	434	100	Pass
0.8101	395	395	100	Pass
0.8252	375	375	100	Pass
0.8404	356	356	100	Pass
0.8556	335	335	100	Pass
0.8708	318	318	100	Pass
0.8860	291	291	100	Pass
0.9011	268	268	100	Pass
0.9163	247	247	100	Pass
0.9315	235	235	100	Pass
0.9467	217	217	100	Pass
0.9618	209	209	100	Pass
0.9770	196	196	100	Pass
0.9922	186	186	100	Pass
1.0074	178	178	100	Pass
1.0225	171	171	100	Pass
1.0377	163	163	100	Pass
1.0529	151	151	100	Pass
1.0681	145	145	100	Pass
1.0833	140	140	100	Pass
1.0984	130	130	100	Pass
1.1136	126	126	100	Pass
1.1288	120	120	100	Pass
1.1440	112	112	100	Pass
1.1591	103	103	100	Pass
1.1743	98	98	100	Pass
1.1895	93	93	100	Pass
1.2047	89	89	100	Pass
1.2198	88	88	100	Pass
1.2350	83	83	100	Pass
1.2502	79	79	100	Pass
1.2654	76	76	100	Pass
1.2806	73	73	100	Pass
1.2957	68	68	100	Pass
1.3109	65	65	100	Pass
1.3261	61	61	100	Pass
1.3413	56	56	100	Pass
1.3564	53	53	100	Pass
1.3716	49	49	100	Pass
1.3868	48	48	100	Pass
1.4020	48	48	100	Pass
1.4171	46	46	100	Pass
1.4323	43	43	100	Pass
1.4475	41	41	100	Pass
1.4627	38	38	100	Pass

1.4779	38	38	100	Pass
1.4930	36	36	100	Pass
1.5082	35	35	100	Pass
1.5234	32	32	100	Pass
1.5386	29	29	100	Pass
1.5537	27	27	100	Pass
1.5689	23	23	100	Pass
1.5841	23	23	100	Pass
1.5993	23	23	100	Pass
1.6144	21	21	100	Pass
1.6296	19	19	100	Pass
1.6448	17	17	100	Pass
1.6600	16	16	100	Pass
1.6752	15	15	100	Pass
1.6903	14	14	100	Pass
1.7055	13	13	100	Pass
1.7207	11	11	100	Pass
1.7359	11	11	100	Pass
1.7510	11	11	100	Pass
1.7662	11	11	100	Pass
1.7814	10	10	100	Pass
1.7966	9	9	100	Pass
1.8117	9	9	100	Pass
1.8269	8	8	100	Pass
1.8421	7	7	100	Pass
1.8573	6	6	100	Pass
1.8725	6	6	100	Pass
1.8876	6	6	100	Pass
1.9028	5	5	100	Pass
1.9180	5	5	100	Pass
1.9332	5	5	100	Pass
1.9483	4	4	100	Pass
1.9635	4	4	100	Pass
1.9787	4	4	100	Pass
1.9939	3	3	100	Pass
2.0090	2	2	100	Pass
2.0242	2	2	100	Pass
2.0394	1	1	100	Pass
2.0546	0	0	100	Pass
2.0698	0	0	0	Pass
2.0849	0	0	0	Pass
2.1001	0	0	0	Pass
2.1153	0	0	0	Pass
2.1305	0	0	0	Pass
2.1456	0	0	0	Pass
2.1608	0	0	0	Pass
2.1760	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #24

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



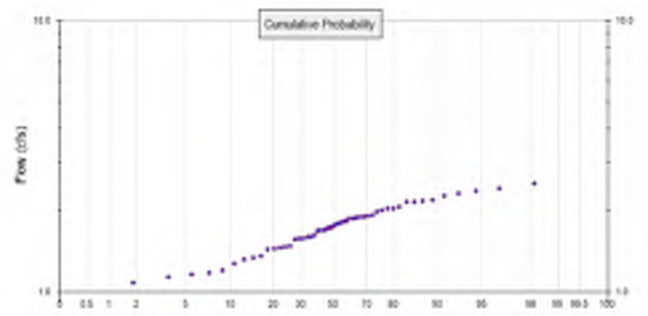
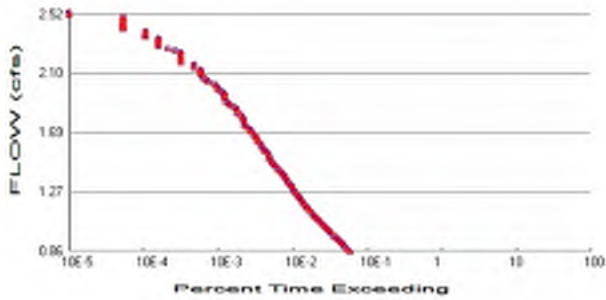
POC 25

POC #25 was not reported because POC must exist in both scenarios and both scenarios must have been run.

POC 26

POC #26 was not reported because POC must exist in both scenarios and both scenarios must have been run.

POC 27



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #27

Total Pervious Area: 0.3
Total Impervious Area: 2.18

Mitigated Landuse Totals for POC #27

Total Pervious Area: 0.3
Total Impervious Area: 2.18

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #27

Return Period	Flow(cfs)
2 year	1.71971
5 year	2.039274
10 year	2.211949
25 year	2.398488
50 year	2.519573
100 year	2.628443

Flow Frequency Return Periods for Mitigated. POC #27

Return Period	Flow(cfs)
2 year	1.71971
5 year	2.039274
10 year	2.211949
25 year	2.398488
50 year	2.519573
100 year	2.628443

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #27

Year	Predeveloped	Mitigated
1956	1.803	1.803
1957	2.256	2.256
1958	1.745	1.745
1959	1.721	1.721
1960	1.787	1.787
1961	1.470	1.470
1962	2.360	2.360
1963	2.171	2.171
1964	1.888	1.888
1965	1.876	1.876
1966	1.829	1.829

1967	1.172	1.172
1968	1.770	1.770
1969	1.676	1.676
1970	1.600	1.600
1971	2.413	2.413
1972	2.035	2.035
1973	1.916	1.916
1974	1.820	1.820
1975	1.618	1.618
1976	1.978	1.978
1977	1.439	1.439
1978	2.514	2.514
1979	1.575	1.575
1980	1.454	1.454
1981	1.862	1.862
1982	2.146	2.146
1983	1.693	1.693
1984	1.558	1.558
1985	1.199	1.199
1986	1.891	1.891
1987	1.320	1.320
1988	1.999	1.999
1989	1.690	1.690
1990	2.179	2.179
1991	1.441	1.441
1992	1.133	1.133
1993	1.275	1.275
1994	1.596	1.596
1995	1.571	1.571
1996	1.910	1.910
1997	1.862	1.862
1998	1.163	1.163
1999	1.472	1.472
2000	1.353	1.353
2001	1.337	1.337
2002	2.054	2.054
2003	2.299	2.299
2004	2.142	2.142
2005	1.698	1.698
2006	1.729	1.729
2007	2.037	2.037
2008	1.077	1.077
2009	1.019	1.019

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #27

Rank	Predeveloped	Mitigated
1	2.5137	2.5137
2	2.4126	2.4126
3	2.3599	2.3599
4	2.2995	2.2995
5	2.2561	2.2561
6	2.1793	2.1793
7	2.1706	2.1706
8	2.1465	2.1465
9	2.1422	2.1422
10	2.0537	2.0537
11	2.0370	2.0370

12	2.0347	2.0347
13	1.9986	1.9986
14	1.9780	1.9780
15	1.9164	1.9164
16	1.9099	1.9099
17	1.8910	1.8910
18	1.8881	1.8881
19	1.8760	1.8760
20	1.8620	1.8620
21	1.8617	1.8617
22	1.8291	1.8291
23	1.8204	1.8204
24	1.8029	1.8029
25	1.7871	1.7871
26	1.7701	1.7701
27	1.7454	1.7454
28	1.7293	1.7293
29	1.7208	1.7208
30	1.6982	1.6982
31	1.6928	1.6928
32	1.6904	1.6904
33	1.6762	1.6762
34	1.6181	1.6181
35	1.6004	1.6004
36	1.5962	1.5962
37	1.5753	1.5753
38	1.5710	1.5710
39	1.5578	1.5578
40	1.4718	1.4718
41	1.4700	1.4700
42	1.4543	1.4543
43	1.4414	1.4414
44	1.4387	1.4387
45	1.3527	1.3527
46	1.3368	1.3368
47	1.3198	1.3198
48	1.2748	1.2748
49	1.1989	1.1989
50	1.1720	1.1720
51	1.1627	1.1627
52	1.1332	1.1332
53	1.0769	1.0769
54	1.0192	1.0192

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.8599	1100	1100	100	Pass
0.8766	1027	1027	100	Pass
0.8934	953	953	100	Pass
0.9101	881	881	100	Pass
0.9269	830	830	100	Pass
0.9437	768	768	100	Pass
0.9604	711	711	100	Pass
0.9772	658	658	100	Pass
0.9940	608	608	100	Pass
1.0107	563	563	100	Pass
1.0275	526	526	100	Pass
1.0443	490	490	100	Pass
1.0610	461	461	100	Pass
1.0778	423	423	100	Pass
1.0946	395	395	100	Pass
1.1113	368	368	100	Pass
1.1281	344	344	100	Pass
1.1449	319	319	100	Pass
1.1616	299	299	100	Pass
1.1784	284	284	100	Pass
1.1952	266	266	100	Pass
1.2119	256	256	100	Pass
1.2287	238	238	100	Pass
1.2454	228	228	100	Pass
1.2622	215	215	100	Pass
1.2790	202	202	100	Pass
1.2957	194	194	100	Pass
1.3125	184	184	100	Pass
1.3293	174	174	100	Pass
1.3460	165	165	100	Pass
1.3628	159	159	100	Pass
1.3796	151	151	100	Pass
1.3963	142	142	100	Pass
1.4131	135	135	100	Pass
1.4299	126	126	100	Pass
1.4466	115	115	100	Pass
1.4634	108	108	100	Pass
1.4802	100	100	100	Pass
1.4969	98	98	100	Pass
1.5137	93	93	100	Pass
1.5304	91	91	100	Pass
1.5472	89	89	100	Pass
1.5640	81	81	100	Pass
1.5807	77	77	100	Pass
1.5975	73	73	100	Pass
1.6143	70	70	100	Pass
1.6310	64	64	100	Pass
1.6478	63	63	100	Pass
1.6646	61	61	100	Pass
1.6813	57	57	100	Pass
1.6981	53	53	100	Pass
1.7149	51	51	100	Pass
1.7316	46	46	100	Pass

1.7484	43	43	100	Pass
1.7652	43	43	100	Pass
1.7819	42	42	100	Pass
1.7987	40	40	100	Pass
1.8155	38	38	100	Pass
1.8322	34	34	100	Pass
1.8490	34	34	100	Pass
1.8657	32	32	100	Pass
1.8825	28	28	100	Pass
1.8993	26	26	100	Pass
1.9160	24	24	100	Pass
1.9328	23	23	100	Pass
1.9496	23	23	100	Pass
1.9663	23	23	100	Pass
1.9831	21	21	100	Pass
1.9999	19	19	100	Pass
2.0166	18	18	100	Pass
2.0334	17	17	100	Pass
2.0502	14	14	100	Pass
2.0669	13	13	100	Pass
2.0837	12	12	100	Pass
2.1005	11	11	100	Pass
2.1172	11	11	100	Pass
2.1340	11	11	100	Pass
2.1507	9	9	100	Pass
2.1675	9	9	100	Pass
2.1843	6	6	100	Pass
2.2010	6	6	100	Pass
2.2178	6	6	100	Pass
2.2346	6	6	100	Pass
2.2513	6	6	100	Pass
2.2681	5	5	100	Pass
2.2849	4	4	100	Pass
2.3016	3	3	100	Pass
2.3184	3	3	100	Pass
2.3352	3	3	100	Pass
2.3519	3	3	100	Pass
2.3687	2	2	100	Pass
2.3855	2	2	100	Pass
2.4022	2	2	100	Pass
2.4190	1	1	100	Pass
2.4357	1	1	100	Pass
2.4525	1	1	100	Pass
2.4693	1	1	100	Pass
2.4860	1	1	100	Pass
2.5028	1	1	100	Pass
2.5196	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #27

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

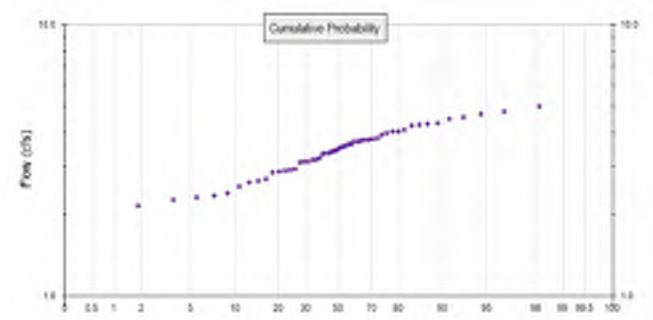
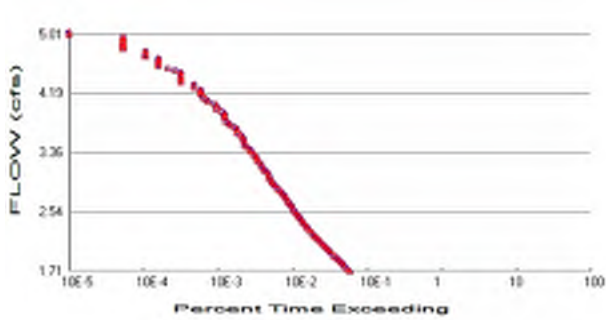
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 28



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #28

Total Pervious Area: 0.59
 Total Impervious Area: 4.34

Mitigated Landuse Totals for POC #28

Total Pervious Area: 0.59
 Total Impervious Area: 4.34

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #28

Return Period	Flow(cfs)
2 year	3.420728
5 year	4.055989
10 year	4.399225
25 year	4.770002
50 year	5.01067
100 year	5.227053

Flow Frequency Return Periods for Mitigated. POC #28

Return Period	Flow(cfs)
2 year	3.420728
5 year	4.055989
10 year	4.399225
25 year	4.770002
50 year	5.01067
100 year	5.227053

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #28

Year	Predeveloped	Mitigated
1956	3.585	3.585
1957	4.487	4.487
1958	3.472	3.472
1959	3.422	3.422
1960	3.554	3.554
1961	2.925	2.925
1962	4.693	4.693
1963	4.317	4.317
1964	3.756	3.756
1965	3.731	3.731
1966	3.638	3.638

1967	2.332	2.332
1968	3.521	3.521
1969	3.333	3.333
1970	3.184	3.184
1971	4.798	4.798
1972	4.046	4.046
1973	3.812	3.812
1974	3.620	3.620
1975	3.218	3.218
1976	3.934	3.934
1977	2.862	2.862
1978	5.000	5.000
1979	3.133	3.133
1980	2.893	2.893
1981	3.704	3.704
1982	4.270	4.270
1983	3.367	3.367
1984	3.098	3.098
1985	2.386	2.386
1986	3.761	3.761
1987	2.625	2.625
1988	3.975	3.975
1989	3.362	3.362
1990	4.334	4.334
1991	2.868	2.868
1992	2.255	2.255
1993	2.536	2.536
1994	3.175	3.175
1995	3.127	3.127
1996	3.801	3.801
1997	3.703	3.703
1998	2.313	2.313
1999	2.928	2.928
2000	2.691	2.691
2001	2.660	2.660
2002	4.088	4.088
2003	4.573	4.573
2004	4.260	4.260
2005	3.378	3.378
2006	3.440	3.440
2007	4.051	4.051
2008	2.143	2.143
2009	2.028	2.028

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #28

Rank	Predeveloped	Mitigated
1	4.9998	4.9998
2	4.7979	4.7979
3	4.6930	4.6930
4	4.5727	4.5727
5	4.4873	4.4873
6	4.3340	4.3340
7	4.3168	4.3168
8	4.2697	4.2697
9	4.2603	4.2603
10	4.0880	4.0880
11	4.0510	4.0510

12	4.0461	4.0461
13	3.9750	3.9750
14	3.9338	3.9338
15	3.8120	3.8120
16	3.8005	3.8005
17	3.7610	3.7610
18	3.7557	3.7557
19	3.7312	3.7312
20	3.7037	3.7037
21	3.7033	3.7033
22	3.6376	3.6376
23	3.6202	3.6202
24	3.5853	3.5853
25	3.5540	3.5540
26	3.5205	3.5205
27	3.4721	3.4721
28	3.4395	3.4395
29	3.4222	3.4222
30	3.3776	3.3776
31	3.3672	3.3672
32	3.3624	3.3624
33	3.3334	3.3334
34	3.2183	3.2183
35	3.1840	3.1840
36	3.1750	3.1750
37	3.1332	3.1332
38	3.1266	3.1266
39	3.0984	3.0984
40	2.9277	2.9277
41	2.9249	2.9249
42	2.8928	2.8928
43	2.8685	2.8685
44	2.8619	2.8619
45	2.6907	2.6907
46	2.6599	2.6599
47	2.6252	2.6252
48	2.5364	2.5364
49	2.3856	2.3856
50	2.3316	2.3316
51	2.3133	2.3133
52	2.2546	2.2546
53	2.1427	2.1427
54	2.0279	2.0279

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.7104	1097	1097	100	Pass
1.7437	1026	1026	100	Pass
1.7770	954	954	100	Pass
1.8104	884	884	100	Pass
1.8437	830	830	100	Pass
1.8770	768	768	100	Pass
1.9104	711	711	100	Pass
1.9437	658	658	100	Pass
1.9771	607	607	100	Pass
2.0104	563	563	100	Pass
2.0437	526	526	100	Pass
2.0771	490	490	100	Pass
2.1104	461	461	100	Pass
2.1437	423	423	100	Pass
2.1771	395	395	100	Pass
2.2104	368	368	100	Pass
2.2437	344	344	100	Pass
2.2771	318	318	100	Pass
2.3104	299	299	100	Pass
2.3438	285	285	100	Pass
2.3771	267	267	100	Pass
2.4104	256	256	100	Pass
2.4438	238	238	100	Pass
2.4771	227	227	100	Pass
2.5104	216	216	100	Pass
2.5438	201	201	100	Pass
2.5771	194	194	100	Pass
2.6104	185	185	100	Pass
2.6438	174	174	100	Pass
2.6771	166	166	100	Pass
2.7105	159	159	100	Pass
2.7438	151	151	100	Pass
2.7771	142	142	100	Pass
2.8105	135	135	100	Pass
2.8438	126	126	100	Pass
2.8771	116	116	100	Pass
2.9105	108	108	100	Pass
2.9438	100	100	100	Pass
2.9771	98	98	100	Pass
3.0105	93	93	100	Pass
3.0438	91	91	100	Pass
3.0772	89	89	100	Pass
3.1105	81	81	100	Pass
3.1438	77	77	100	Pass
3.1772	73	73	100	Pass
3.2105	70	70	100	Pass
3.2438	64	64	100	Pass
3.2772	63	63	100	Pass
3.3105	61	61	100	Pass
3.3438	57	57	100	Pass
3.3772	53	53	100	Pass
3.4105	51	51	100	Pass
3.4439	46	46	100	Pass

3.4772	43	43	100	Pass
3.5105	43	43	100	Pass
3.5439	42	42	100	Pass
3.5772	40	40	100	Pass
3.6105	38	38	100	Pass
3.6439	34	34	100	Pass
3.6772	34	34	100	Pass
3.7105	32	32	100	Pass
3.7439	28	28	100	Pass
3.7772	26	26	100	Pass
3.8106	24	24	100	Pass
3.8439	23	23	100	Pass
3.8772	23	23	100	Pass
3.9106	23	23	100	Pass
3.9439	21	21	100	Pass
3.9772	18	18	100	Pass
4.0106	18	18	100	Pass
4.0439	17	17	100	Pass
4.0773	14	14	100	Pass
4.1106	13	13	100	Pass
4.1439	12	12	100	Pass
4.1773	11	11	100	Pass
4.2106	11	11	100	Pass
4.2439	11	11	100	Pass
4.2773	9	9	100	Pass
4.3106	9	9	100	Pass
4.3439	6	6	100	Pass
4.3773	6	6	100	Pass
4.4106	6	6	100	Pass
4.4440	6	6	100	Pass
4.4773	6	6	100	Pass
4.5106	5	5	100	Pass
4.5440	4	4	100	Pass
4.5773	3	3	100	Pass
4.6106	3	3	100	Pass
4.6440	3	3	100	Pass
4.6773	3	3	100	Pass
4.7106	2	2	100	Pass
4.7440	2	2	100	Pass
4.7773	2	2	100	Pass
4.8107	1	1	100	Pass
4.8440	1	1	100	Pass
4.8773	1	1	100	Pass
4.9107	1	1	100	Pass
4.9440	1	1	100	Pass
4.9773	1	1	100	Pass
5.0107	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #28

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

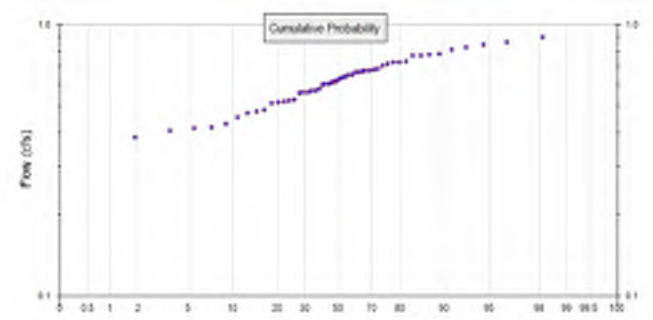
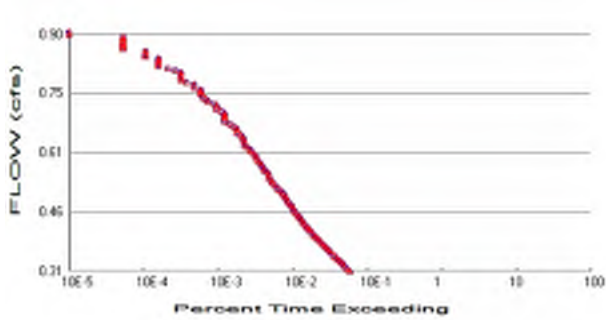
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 29



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #29

Total Pervious Area: 0.11
Total Impervious Area: 0.78

Mitigated Landuse Totals for POC #29

Total Pervious Area: 0.11
Total Impervious Area: 0.78

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #29

Return Period	Flow(cfs)
2 year	0.616379
5 year	0.731062
10 year	0.793039
25 year	0.859999
50 year	0.903467
100 year	0.942551

Flow Frequency Return Periods for Mitigated. POC #29

Return Period	Flow(cfs)
2 year	0.616379
5 year	0.731062
10 year	0.793039
25 year	0.859999
50 year	0.903467
100 year	0.942551

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #29

Year	Predeveloped	Mitigated
1956	0.647	0.647
1957	0.809	0.809
1958	0.625	0.625
1959	0.617	0.617
1960	0.641	0.641
1961	0.527	0.527
1962	0.846	0.846
1963	0.778	0.778
1964	0.677	0.677
1965	0.673	0.673
1966	0.656	0.656

1967	0.420	0.420
1968	0.635	0.635
1969	0.601	0.601
1970	0.573	0.573
1971	0.865	0.865
1972	0.730	0.730
1973	0.687	0.687
1974	0.653	0.653
1975	0.580	0.580
1976	0.709	0.709
1977	0.516	0.516
1978	0.901	0.901
1979	0.565	0.565
1980	0.521	0.521
1981	0.667	0.667
1982	0.769	0.769
1983	0.607	0.607
1984	0.558	0.558
1985	0.429	0.429
1986	0.678	0.678
1987	0.473	0.473
1988	0.717	0.717
1989	0.606	0.606
1990	0.781	0.781
1991	0.516	0.516
1992	0.406	0.406
1993	0.457	0.457
1994	0.572	0.572
1995	0.562	0.562
1996	0.684	0.684
1997	0.667	0.667
1998	0.417	0.417
1999	0.527	0.527
2000	0.485	0.485
2001	0.479	0.479
2002	0.735	0.735
2003	0.825	0.825
2004	0.768	0.768
2005	0.609	0.609
2006	0.620	0.620
2007	0.730	0.730
2008	0.386	0.386
2009	0.365	0.365

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #29

Rank	Predeveloped	Mitigated
1	0.9010	0.9010
2	0.8651	0.8651
3	0.8463	0.8463
4	0.8246	0.8246
5	0.8087	0.8087
6	0.7814	0.7814
7	0.7783	0.7783
8	0.7693	0.7693
9	0.7681	0.7681
10	0.7351	0.7351
11	0.7304	0.7304

12	0.7297	0.7297
13	0.7165	0.7165
14	0.7091	0.7091
15	0.6869	0.6869
16	0.6839	0.6839
17	0.6779	0.6779
18	0.6767	0.6767
19	0.6726	0.6726
20	0.6673	0.6673
21	0.6672	0.6672
22	0.6559	0.6559
23	0.6528	0.6528
24	0.6465	0.6465
25	0.6409	0.6409
26	0.6346	0.6346
27	0.6255	0.6255
28	0.6200	0.6200
29	0.6170	0.6170
30	0.6088	0.6088
31	0.6068	0.6068
32	0.6059	0.6059
33	0.6011	0.6011
34	0.5800	0.5800
35	0.5734	0.5734
36	0.5722	0.5722
37	0.5647	0.5647
38	0.5625	0.5625
39	0.5585	0.5585
40	0.5275	0.5275
41	0.5265	0.5265
42	0.5212	0.5212
43	0.5161	0.5161
44	0.5156	0.5156
45	0.4848	0.4848
46	0.4788	0.4788
47	0.4731	0.4731
48	0.4566	0.4566
49	0.4294	0.4294
50	0.4200	0.4200
51	0.4166	0.4166
52	0.4060	0.4060
53	0.3858	0.3858
54	0.3650	0.3650

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3082	1097	1097	100	Pass
0.3142	1024	1024	100	Pass
0.3202	953	953	100	Pass
0.3262	883	883	100	Pass
0.3322	830	830	100	Pass
0.3383	766	766	100	Pass
0.3443	710	710	100	Pass
0.3503	658	658	100	Pass
0.3563	607	607	100	Pass
0.3623	563	563	100	Pass
0.3683	528	528	100	Pass
0.3743	492	492	100	Pass
0.3803	461	461	100	Pass
0.3864	423	423	100	Pass
0.3924	395	395	100	Pass
0.3984	368	368	100	Pass
0.4044	344	344	100	Pass
0.4104	320	320	100	Pass
0.4164	299	299	100	Pass
0.4224	284	284	100	Pass
0.4284	269	269	100	Pass
0.4345	256	256	100	Pass
0.4405	238	238	100	Pass
0.4465	228	228	100	Pass
0.4525	216	216	100	Pass
0.4585	202	202	100	Pass
0.4645	194	194	100	Pass
0.4705	185	185	100	Pass
0.4766	174	174	100	Pass
0.4826	165	165	100	Pass
0.4886	159	159	100	Pass
0.4946	151	151	100	Pass
0.5006	142	142	100	Pass
0.5066	137	137	100	Pass
0.5126	127	127	100	Pass
0.5186	115	115	100	Pass
0.5247	109	109	100	Pass
0.5307	100	100	100	Pass
0.5367	98	98	100	Pass
0.5427	92	92	100	Pass
0.5487	91	91	100	Pass
0.5547	89	89	100	Pass
0.5607	81	81	100	Pass
0.5667	77	77	100	Pass
0.5728	74	74	100	Pass
0.5788	70	70	100	Pass
0.5848	65	65	100	Pass
0.5908	63	63	100	Pass
0.5968	61	61	100	Pass
0.6028	58	58	100	Pass
0.6088	53	53	100	Pass
0.6148	51	51	100	Pass
0.6209	46	46	100	Pass

0.6269	43	43	100	Pass
0.6329	43	43	100	Pass
0.6389	42	42	100	Pass
0.6449	40	40	100	Pass
0.6509	38	38	100	Pass
0.6569	34	34	100	Pass
0.6630	34	34	100	Pass
0.6690	32	32	100	Pass
0.6750	29	29	100	Pass
0.6810	26	26	100	Pass
0.6870	23	23	100	Pass
0.6930	23	23	100	Pass
0.6990	23	23	100	Pass
0.7050	23	23	100	Pass
0.7111	21	21	100	Pass
0.7171	18	18	100	Pass
0.7231	18	18	100	Pass
0.7291	17	17	100	Pass
0.7351	14	14	100	Pass
0.7411	13	13	100	Pass
0.7471	12	12	100	Pass
0.7531	11	11	100	Pass
0.7592	11	11	100	Pass
0.7652	11	11	100	Pass
0.7712	9	9	100	Pass
0.7772	9	9	100	Pass
0.7832	7	7	100	Pass
0.7892	6	6	100	Pass
0.7952	6	6	100	Pass
0.8012	6	6	100	Pass
0.8073	6	6	100	Pass
0.8133	5	5	100	Pass
0.8193	4	4	100	Pass
0.8253	3	3	100	Pass
0.8313	3	3	100	Pass
0.8373	3	3	100	Pass
0.8433	3	3	100	Pass
0.8494	2	2	100	Pass
0.8554	2	2	100	Pass
0.8614	2	2	100	Pass
0.8674	1	1	100	Pass
0.8734	1	1	100	Pass
0.8794	1	1	100	Pass
0.8854	1	1	100	Pass
0.8914	1	1	100	Pass
0.8975	1	1	100	Pass
0.9035	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #29

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

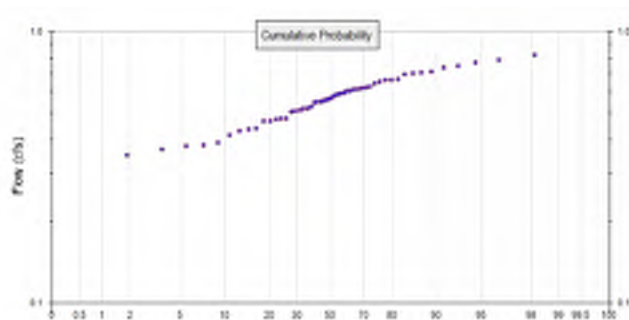
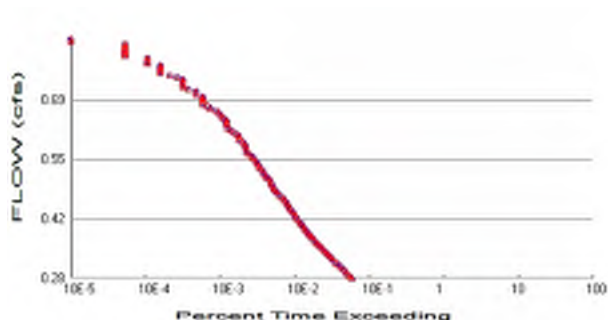
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 30



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #30

Total Pervious Area: 0.1
Total Impervious Area: 0.71

Mitigated Landuse Totals for POC #30

Total Pervious Area: 0.1
Total Impervious Area: 0.71

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #30

Return Period	Flow(cfs)
2 year	0.561011
5 year	0.665386
10 year	0.721791
25 year	0.782732
50 year	0.822291
100 year	0.857862

Flow Frequency Return Periods for Mitigated. POC #30

Return Period	Flow(cfs)
2 year	0.561011
5 year	0.665386
10 year	0.721791
25 year	0.782732
50 year	0.822291
100 year	0.857862

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #30

Year	Predeveloped	Mitigated
1956	0.588	0.588
1957	0.736	0.736
1958	0.569	0.569
1959	0.562	0.562
1960	0.583	0.583
1961	0.479	0.479
1962	0.770	0.770
1963	0.708	0.708
1964	0.616	0.616
1965	0.612	0.612
1966	0.597	0.597

1967	0.382	0.382
1968	0.578	0.578
1969	0.547	0.547
1970	0.522	0.522
1971	0.787	0.787
1972	0.664	0.664
1973	0.625	0.625
1974	0.594	0.594
1975	0.528	0.528
1976	0.645	0.645
1977	0.469	0.469
1978	0.820	0.820
1979	0.514	0.514
1980	0.474	0.474
1981	0.607	0.607
1982	0.700	0.700
1983	0.552	0.552
1984	0.508	0.508
1985	0.391	0.391
1986	0.617	0.617
1987	0.431	0.431
1988	0.652	0.652
1989	0.551	0.551
1990	0.711	0.711
1991	0.470	0.470
1992	0.370	0.370
1993	0.416	0.416
1994	0.521	0.521
1995	0.512	0.512
1996	0.623	0.623
1997	0.607	0.607
1998	0.379	0.379
1999	0.480	0.480
2000	0.441	0.441
2001	0.436	0.436
2002	0.669	0.669
2003	0.751	0.751
2004	0.699	0.699
2005	0.554	0.554
2006	0.564	0.564
2007	0.665	0.665
2008	0.351	0.351
2009	0.332	0.332

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #30

Rank	Predeveloped	Mitigated
1	0.8201	0.8201
2	0.7874	0.7874
3	0.7702	0.7702
4	0.7505	0.7505
5	0.7361	0.7361
6	0.7112	0.7112
7	0.7084	0.7084
8	0.7002	0.7002
9	0.6991	0.6991
10	0.6691	0.6691
11	0.6648	0.6648

12	0.6641	0.6641
13	0.6522	0.6522
14	0.6454	0.6454
15	0.6252	0.6252
16	0.6225	0.6225
17	0.6170	0.6170
18	0.6159	0.6159
19	0.6122	0.6122
20	0.6074	0.6074
21	0.6073	0.6073
22	0.5970	0.5970
23	0.5941	0.5941
24	0.5884	0.5884
25	0.5833	0.5833
26	0.5776	0.5776
27	0.5693	0.5693
28	0.5643	0.5643
29	0.5616	0.5616
30	0.5541	0.5541
31	0.5523	0.5523
32	0.5515	0.5515
33	0.5471	0.5471
34	0.5279	0.5279
35	0.5219	0.5219
36	0.5208	0.5208
37	0.5140	0.5140
38	0.5120	0.5120
39	0.5083	0.5083
40	0.4801	0.4801
41	0.4792	0.4792
42	0.4744	0.4744
43	0.4697	0.4697
44	0.4693	0.4693
45	0.4413	0.4413
46	0.4358	0.4358
47	0.4306	0.4306
48	0.4156	0.4156
49	0.3908	0.3908
50	0.3823	0.3823
51	0.3792	0.3792
52	0.3695	0.3695
53	0.3512	0.3512
54	0.3323	0.3323

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2805	1101	1101	100	Pass
0.2860	1038	1038	100	Pass
0.2915	956	956	100	Pass
0.2969	896	896	100	Pass
0.3024	830	830	100	Pass
0.3079	777	777	100	Pass
0.3133	713	713	100	Pass
0.3188	660	660	100	Pass
0.3243	607	607	100	Pass
0.3298	567	567	100	Pass
0.3352	527	527	100	Pass
0.3407	494	494	100	Pass
0.3462	461	461	100	Pass
0.3516	426	426	100	Pass
0.3571	394	394	100	Pass
0.3626	370	370	100	Pass
0.3681	344	344	100	Pass
0.3735	321	321	100	Pass
0.3790	299	299	100	Pass
0.3845	284	284	100	Pass
0.3900	270	270	100	Pass
0.3954	256	256	100	Pass
0.4009	238	238	100	Pass
0.4064	228	228	100	Pass
0.4118	217	217	100	Pass
0.4173	201	201	100	Pass
0.4228	195	195	100	Pass
0.4283	183	183	100	Pass
0.4337	174	174	100	Pass
0.4392	165	165	100	Pass
0.4447	159	159	100	Pass
0.4502	151	151	100	Pass
0.4556	143	143	100	Pass
0.4611	136	136	100	Pass
0.4666	128	128	100	Pass
0.4720	115	115	100	Pass
0.4775	108	108	100	Pass
0.4830	101	101	100	Pass
0.4885	98	98	100	Pass
0.4939	94	94	100	Pass
0.4994	91	91	100	Pass
0.5049	89	89	100	Pass
0.5104	81	81	100	Pass
0.5158	77	77	100	Pass
0.5213	73	73	100	Pass
0.5268	70	70	100	Pass
0.5322	64	64	100	Pass
0.5377	63	63	100	Pass
0.5432	60	60	100	Pass
0.5487	58	58	100	Pass
0.5541	53	53	100	Pass
0.5596	51	51	100	Pass
0.5651	46	46	100	Pass

0.5706	43	43	100	Pass
0.5760	43	43	100	Pass
0.5815	42	42	100	Pass
0.5870	40	40	100	Pass
0.5924	38	38	100	Pass
0.5979	34	34	100	Pass
0.6034	34	34	100	Pass
0.6089	32	32	100	Pass
0.6143	29	29	100	Pass
0.6198	26	26	100	Pass
0.6253	24	24	100	Pass
0.6308	23	23	100	Pass
0.6362	23	23	100	Pass
0.6417	23	23	100	Pass
0.6472	21	21	100	Pass
0.6526	20	20	100	Pass
0.6581	18	18	100	Pass
0.6636	17	17	100	Pass
0.6691	14	14	100	Pass
0.6745	13	13	100	Pass
0.6800	11	11	100	Pass
0.6855	11	11	100	Pass
0.6909	11	11	100	Pass
0.6964	11	11	100	Pass
0.7019	9	9	100	Pass
0.7074	9	9	100	Pass
0.7128	7	7	100	Pass
0.7183	6	6	100	Pass
0.7238	6	6	100	Pass
0.7293	6	6	100	Pass
0.7347	6	6	100	Pass
0.7402	5	5	100	Pass
0.7457	4	4	100	Pass
0.7511	3	3	100	Pass
0.7566	3	3	100	Pass
0.7621	3	3	100	Pass
0.7676	3	3	100	Pass
0.7730	2	2	100	Pass
0.7785	2	2	100	Pass
0.7840	2	2	100	Pass
0.7895	1	1	100	Pass
0.7949	1	1	100	Pass
0.8004	1	1	100	Pass
0.8059	1	1	100	Pass
0.8113	1	1	100	Pass
0.8168	1	1	100	Pass
0.8223	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #30

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

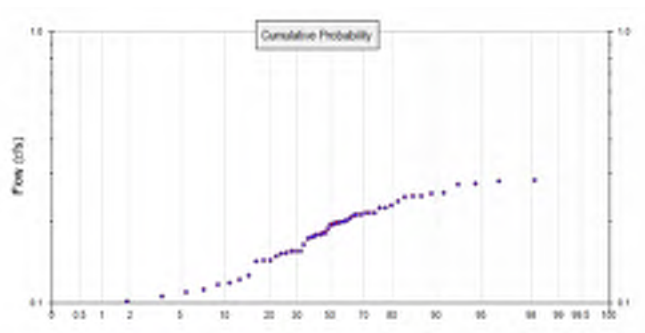
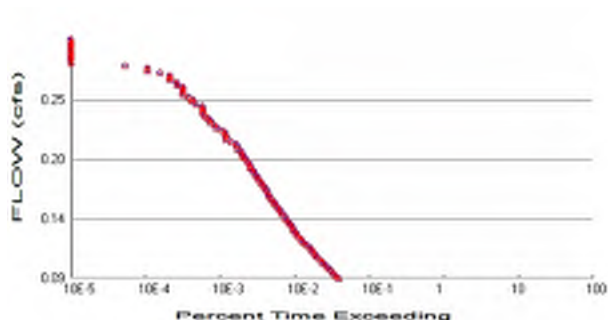
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 31



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #31

Total Pervious Area: 0.2
Total Impervious Area: 0.14

Mitigated Landuse Totals for POC #31

Total Pervious Area: 0.2
Total Impervious Area: 0.14

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #31

Return Period	Flow(cfs)
2 year	0.183418
5 year	0.229538
10 year	0.255453
25 year	0.284175
50 year	0.303205
100 year	0.320563

Flow Frequency Return Periods for Mitigated. POC #31

Return Period	Flow(cfs)
2 year	0.183418
5 year	0.229538
10 year	0.255453
25 year	0.284175
50 year	0.303205
100 year	0.320563

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #31

Year	Predeveloped	Mitigated
1956	0.215	0.215
1957	0.248	0.248
1958	0.178	0.178
1959	0.199	0.199
1960	0.212	0.212
1961	0.144	0.144
1962	0.282	0.282
1963	0.253	0.253
1964	0.201	0.201
1965	0.212	0.212
1966	0.215	0.215

1967	0.118	0.118
1968	0.200	0.200
1969	0.198	0.198
1970	0.155	0.155
1971	0.283	0.283
1972	0.246	0.246
1973	0.206	0.206
1974	0.215	0.215
1975	0.178	0.178
1976	0.225	0.225
1977	0.151	0.151
1978	0.274	0.274
1979	0.176	0.176
1980	0.155	0.155
1981	0.197	0.197
1982	0.229	0.229
1983	0.181	0.181
1984	0.175	0.175
1985	0.105	0.105
1986	0.211	0.211
1987	0.143	0.143
1988	0.225	0.225
1989	0.181	0.181
1990	0.255	0.255
1991	0.149	0.149
1992	0.110	0.110
1993	0.117	0.117
1994	0.172	0.172
1995	0.127	0.127
1996	0.164	0.164
1997	0.195	0.195
1998	0.112	0.112
1999	0.155	0.155
2000	0.143	0.143
2001	0.121	0.121
2002	0.153	0.153
2003	0.276	0.276
2004	0.247	0.247
2005	0.188	0.188
2006	0.194	0.194
2007	0.237	0.237
2008	0.102	0.102
2009	0.092	0.092

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #31

Rank	Predeveloped	Mitigated
1	0.2825	0.2825
2	0.2816	0.2816
3	0.2755	0.2755
4	0.2738	0.2738
5	0.2551	0.2551
6	0.2532	0.2532
7	0.2484	0.2484
8	0.2470	0.2470
9	0.2457	0.2457
10	0.2372	0.2372
11	0.2285	0.2285

12	0.2250	0.2250
13	0.2248	0.2248
14	0.2151	0.2151
15	0.2151	0.2151
16	0.2146	0.2146
17	0.2118	0.2118
18	0.2115	0.2115
19	0.2107	0.2107
20	0.2063	0.2063
21	0.2009	0.2009
22	0.2002	0.2002
23	0.1993	0.1993
24	0.1977	0.1977
25	0.1970	0.1970
26	0.1951	0.1951
27	0.1939	0.1939
28	0.1880	0.1880
29	0.1814	0.1814
30	0.1811	0.1811
31	0.1785	0.1785
32	0.1781	0.1781
33	0.1760	0.1760
34	0.1746	0.1746
35	0.1719	0.1719
36	0.1636	0.1636
37	0.1554	0.1554
38	0.1551	0.1551
39	0.1549	0.1549
40	0.1530	0.1530
41	0.1514	0.1514
42	0.1490	0.1490
43	0.1437	0.1437
44	0.1433	0.1433
45	0.1428	0.1428
46	0.1267	0.1267
47	0.1214	0.1214
48	0.1183	0.1183
49	0.1168	0.1168
50	0.1118	0.1118
51	0.1099	0.1099
52	0.1055	0.1055
53	0.1015	0.1015
54	0.0921	0.0921

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0917	734	734	100	Pass
0.0938	679	679	100	Pass
0.0960	635	635	100	Pass
0.0981	590	590	100	Pass
0.1003	548	548	100	Pass
0.1024	514	514	100	Pass
0.1045	476	476	100	Pass
0.1067	438	438	100	Pass
0.1088	405	405	100	Pass
0.1109	374	374	100	Pass
0.1131	356	356	100	Pass
0.1152	341	341	100	Pass
0.1173	321	321	100	Pass
0.1195	300	300	100	Pass
0.1216	273	273	100	Pass
0.1238	249	249	100	Pass
0.1259	237	237	100	Pass
0.1280	218	218	100	Pass
0.1302	204	204	100	Pass
0.1323	198	198	100	Pass
0.1344	185	185	100	Pass
0.1366	180	180	100	Pass
0.1387	172	172	100	Pass
0.1408	162	162	100	Pass
0.1430	154	154	100	Pass
0.1451	146	146	100	Pass
0.1473	140	140	100	Pass
0.1494	126	126	100	Pass
0.1515	123	123	100	Pass
0.1537	118	118	100	Pass
0.1558	110	110	100	Pass
0.1579	103	103	100	Pass
0.1601	99	99	100	Pass
0.1622	93	93	100	Pass
0.1643	89	89	100	Pass
0.1665	85	85	100	Pass
0.1686	82	82	100	Pass
0.1708	79	79	100	Pass
0.1729	75	75	100	Pass
0.1750	72	72	100	Pass
0.1772	68	68	100	Pass
0.1793	63	63	100	Pass
0.1814	61	61	100	Pass
0.1836	58	58	100	Pass
0.1857	55	55	100	Pass
0.1878	52	52	100	Pass
0.1900	48	48	100	Pass
0.1921	48	48	100	Pass
0.1943	47	47	100	Pass
0.1964	44	44	100	Pass
0.1985	41	41	100	Pass
0.2007	39	39	100	Pass
0.2028	37	37	100	Pass

0.2049	37	37	100	Pass
0.2071	33	33	100	Pass
0.2092	32	32	100	Pass
0.2113	31	31	100	Pass
0.2135	27	27	100	Pass
0.2156	23	23	100	Pass
0.2178	23	23	100	Pass
0.2199	22	22	100	Pass
0.2220	22	22	100	Pass
0.2242	20	20	100	Pass
0.2263	17	17	100	Pass
0.2284	16	16	100	Pass
0.2306	14	14	100	Pass
0.2327	14	14	100	Pass
0.2348	13	13	100	Pass
0.2370	12	12	100	Pass
0.2391	11	11	100	Pass
0.2413	11	11	100	Pass
0.2434	11	11	100	Pass
0.2455	11	11	100	Pass
0.2477	9	9	100	Pass
0.2498	8	8	100	Pass
0.2519	8	8	100	Pass
0.2541	7	7	100	Pass
0.2562	6	6	100	Pass
0.2583	6	6	100	Pass
0.2605	6	6	100	Pass
0.2626	6	6	100	Pass
0.2648	5	5	100	Pass
0.2669	5	5	100	Pass
0.2690	4	4	100	Pass
0.2712	4	4	100	Pass
0.2733	4	4	100	Pass
0.2754	3	3	100	Pass
0.2776	2	2	100	Pass
0.2797	2	2	100	Pass
0.2818	1	1	100	Pass
0.2840	0	0	100	Pass
0.2861	0	0	0	Pass
0.2883	0	0	0	Pass
0.2904	0	0	0	Pass
0.2925	0	0	0	Pass
0.2947	0	0	0	Pass
0.2968	0	0	0	Pass
0.2989	0	0	0	Pass
0.3011	0	0	0	Pass
0.3032	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #31

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

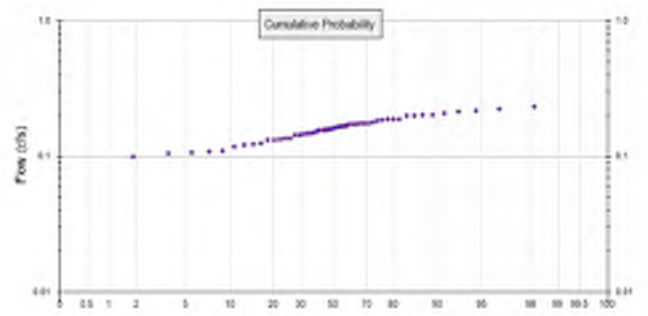
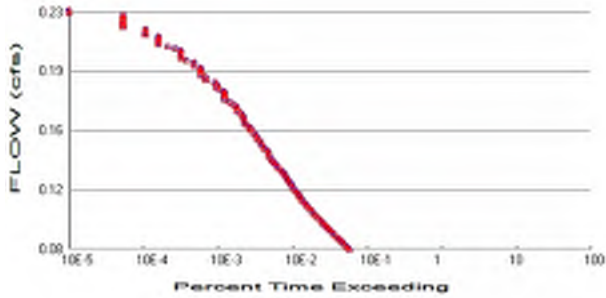
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 32



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #32

Total Pervious Area: 0.03
Total Impervious Area: 0.2

Mitigated Landuse Totals for POC #32

Total Pervious Area: 0.03
Total Impervious Area: 0.2

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #32

Return Period	Flow(cfs)
2 year	0.158767
5 year	0.188406
10 year	0.204429
25 year	0.221744
50 year	0.232987
100 year	0.243098

Flow Frequency Return Periods for Mitigated. POC #32

Return Period	Flow(cfs)
2 year	0.158767
5 year	0.188406
10 year	0.204429
25 year	0.221744
50 year	0.232987
100 year	0.243098

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #32

Year	Predeveloped	Mitigated
1956	0.167	0.167
1957	0.208	0.208
1958	0.161	0.161
1959	0.159	0.159
1960	0.165	0.165
1961	0.135	0.135
1962	0.218	0.218
1963	0.201	0.201
1964	0.174	0.174
1965	0.173	0.173
1966	0.169	0.169

1967	0.108	0.108
1968	0.164	0.164
1969	0.155	0.155
1970	0.148	0.148
1971	0.223	0.223
1972	0.188	0.188
1973	0.177	0.177
1974	0.168	0.168
1975	0.149	0.149
1976	0.183	0.183
1977	0.133	0.133
1978	0.232	0.232
1979	0.146	0.146
1980	0.134	0.134
1981	0.172	0.172
1982	0.198	0.198
1983	0.156	0.156
1984	0.144	0.144
1985	0.110	0.110
1986	0.175	0.175
1987	0.122	0.122
1988	0.185	0.185
1989	0.156	0.156
1990	0.202	0.202
1991	0.133	0.133
1992	0.104	0.104
1993	0.117	0.117
1994	0.147	0.147
1995	0.144	0.144
1996	0.176	0.176
1997	0.172	0.172
1998	0.107	0.107
1999	0.136	0.136
2000	0.125	0.125
2001	0.123	0.123
2002	0.189	0.189
2003	0.213	0.213
2004	0.198	0.198
2005	0.157	0.157
2006	0.160	0.160
2007	0.188	0.188
2008	0.099	0.099
2009	0.094	0.094

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #32

Rank	Predeveloped	Mitigated
1	0.2322	0.2322
2	0.2231	0.2231
3	0.2183	0.2183
4	0.2127	0.2127
5	0.2084	0.2084
6	0.2015	0.2015
7	0.2007	0.2007
8	0.1982	0.1982
9	0.1980	0.1980
10	0.1886	0.1886
11	0.1883	0.1883

12	0.1882	0.1882
13	0.1847	0.1847
14	0.1828	0.1828
15	0.1770	0.1770
16	0.1758	0.1758
17	0.1747	0.1747
18	0.1743	0.1743
19	0.1734	0.1734
20	0.1719	0.1719
21	0.1718	0.1718
22	0.1691	0.1691
23	0.1684	0.1684
24	0.1668	0.1668
25	0.1653	0.1653
26	0.1636	0.1636
27	0.1610	0.1610
28	0.1598	0.1598
29	0.1591	0.1591
30	0.1569	0.1569
31	0.1563	0.1563
32	0.1561	0.1561
33	0.1550	0.1550
34	0.1495	0.1495
35	0.1475	0.1475
36	0.1474	0.1474
37	0.1456	0.1456
38	0.1445	0.1445
39	0.1439	0.1439
40	0.1358	0.1358
41	0.1354	0.1354
42	0.1342	0.1342
43	0.1328	0.1328
44	0.1326	0.1326
45	0.1249	0.1249
46	0.1231	0.1231
47	0.1219	0.1219
48	0.1174	0.1174
49	0.1104	0.1104
50	0.1081	0.1081
51	0.1072	0.1072
52	0.1044	0.1044
53	0.0992	0.0992
54	0.0939	0.0939

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0794	1089	1089	100	Pass
0.0809	1015	1015	100	Pass
0.0825	946	946	100	Pass
0.0840	875	875	100	Pass
0.0856	821	821	100	Pass
0.0871	759	759	100	Pass
0.0887	703	703	100	Pass
0.0902	651	651	100	Pass
0.0918	600	600	100	Pass
0.0933	562	562	100	Pass
0.0949	521	521	100	Pass
0.0965	487	487	100	Pass
0.0980	457	457	100	Pass
0.0996	420	420	100	Pass
0.1011	392	392	100	Pass
0.1027	367	367	100	Pass
0.1042	343	343	100	Pass
0.1058	318	318	100	Pass
0.1073	298	298	100	Pass
0.1089	283	283	100	Pass
0.1104	264	264	100	Pass
0.1120	252	252	100	Pass
0.1135	237	237	100	Pass
0.1151	228	228	100	Pass
0.1166	215	215	100	Pass
0.1182	201	201	100	Pass
0.1197	192	192	100	Pass
0.1213	181	181	100	Pass
0.1228	174	174	100	Pass
0.1244	165	165	100	Pass
0.1259	157	157	100	Pass
0.1275	150	150	100	Pass
0.1290	142	142	100	Pass
0.1306	136	136	100	Pass
0.1321	125	125	100	Pass
0.1337	115	115	100	Pass
0.1352	108	108	100	Pass
0.1368	100	100	100	Pass
0.1383	97	97	100	Pass
0.1399	92	92	100	Pass
0.1414	91	91	100	Pass
0.1430	89	89	100	Pass
0.1445	80	80	100	Pass
0.1461	77	77	100	Pass
0.1477	72	72	100	Pass
0.1492	70	70	100	Pass
0.1508	64	64	100	Pass
0.1523	63	63	100	Pass
0.1539	60	60	100	Pass
0.1554	57	57	100	Pass
0.1570	51	51	100	Pass
0.1585	51	51	100	Pass
0.1601	46	46	100	Pass

0.1616	43	43	100	Pass
0.1632	43	43	100	Pass
0.1647	42	42	100	Pass
0.1663	40	40	100	Pass
0.1678	38	38	100	Pass
0.1694	34	34	100	Pass
0.1709	34	34	100	Pass
0.1725	32	32	100	Pass
0.1740	29	29	100	Pass
0.1756	26	26	100	Pass
0.1771	23	23	100	Pass
0.1787	23	23	100	Pass
0.1802	23	23	100	Pass
0.1818	23	23	100	Pass
0.1833	20	20	100	Pass
0.1849	18	18	100	Pass
0.1864	18	18	100	Pass
0.1880	17	17	100	Pass
0.1895	13	13	100	Pass
0.1911	13	13	100	Pass
0.1926	11	11	100	Pass
0.1942	11	11	100	Pass
0.1957	11	11	100	Pass
0.1973	11	11	100	Pass
0.1989	9	9	100	Pass
0.2004	9	9	100	Pass
0.2020	7	7	100	Pass
0.2035	6	6	100	Pass
0.2051	6	6	100	Pass
0.2066	6	6	100	Pass
0.2082	6	6	100	Pass
0.2097	5	5	100	Pass
0.2113	4	4	100	Pass
0.2128	3	3	100	Pass
0.2144	3	3	100	Pass
0.2159	3	3	100	Pass
0.2175	3	3	100	Pass
0.2190	2	2	100	Pass
0.2206	2	2	100	Pass
0.2221	2	2	100	Pass
0.2237	1	1	100	Pass
0.2252	1	1	100	Pass
0.2268	1	1	100	Pass
0.2283	1	1	100	Pass
0.2299	1	1	100	Pass
0.2314	1	1	100	Pass
0.2330	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #32

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

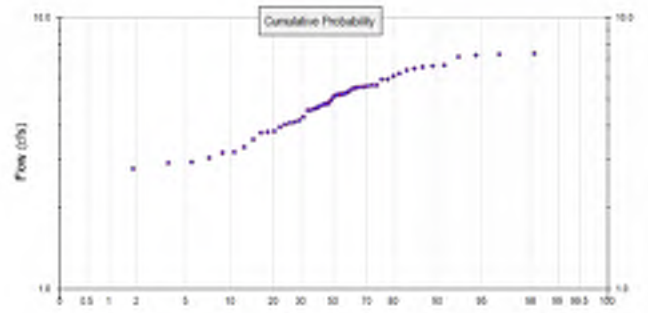
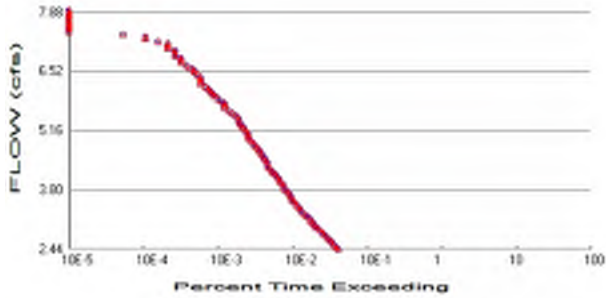
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 33



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #33

Total Pervious Area: 4.52
Total Impervious Area: 4.17

Mitigated Landuse Totals for POC #33

Total Pervious Area: 4.52
Total Impervious Area: 4.17

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #33

Return Period	Flow(cfs)
2 year	4.879069
5 year	6.042937
10 year	6.692006
25 year	7.407857
50 year	7.880263
100 year	8.309998

Flow Frequency Return Periods for Mitigated. POC #33

Return Period	Flow(cfs)
2 year	4.879069
5 year	6.042937
10 year	6.692006
25 year	7.407857
50 year	7.880263
100 year	8.309998

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #33

Year	Predeveloped	Mitigated
1956	5.607	5.607
1957	6.576	6.576
1958	4.781	4.781
1959	5.230	5.230
1960	5.537	5.537
1961	3.774	3.774
1962	7.354	7.354
1963	6.637	6.637
1964	5.350	5.350
1965	5.576	5.576
1966	5.630	5.630

1967	3.181	3.181
1968	5.276	5.276
1969	5.172	5.172
1970	4.199	4.199
1971	7.401	7.401
1972	6.403	6.403
1973	5.482	5.482
1974	5.626	5.626
1975	4.723	4.723
1976	5.922	5.922
1977	4.040	4.040
1978	7.262	7.262
1979	4.647	4.647
1980	4.105	4.105
1981	5.251	5.251
1982	6.085	6.085
1983	4.826	4.826
1984	4.607	4.607
1985	2.915	2.915
1986	5.566	5.566
1987	3.792	3.792
1988	5.928	5.928
1989	4.818	4.818
1990	6.682	6.682
1991	3.952	3.952
1992	2.935	2.935
1993	3.202	3.202
1994	4.568	4.568
1995	3.568	3.568
1996	4.547	4.547
1997	5.210	5.210
1998	3.035	3.035
1999	4.132	4.132
2000	3.819	3.819
2001	3.334	3.334
2002	4.294	4.294
2003	7.190	7.190
2004	6.487	6.487
2005	4.971	4.971
2006	5.118	5.118
2007	6.219	6.219
2008	2.767	2.767
2009	2.532	2.532

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #33

Rank	Predeveloped	Mitigated
1	7.4009	7.4009
2	7.3537	7.3537
3	7.2619	7.2619
4	7.1904	7.1904
5	6.6823	6.6823
6	6.6373	6.6373
7	6.5762	6.5762
8	6.4875	6.4875
9	6.4032	6.4032
10	6.2190	6.2190
11	6.0855	6.0855

12	5.9279	5.9279
13	5.9217	5.9217
14	5.6298	5.6298
15	5.6256	5.6256
16	5.6070	5.6070
17	5.5764	5.5764
18	5.5664	5.5664
19	5.5366	5.5366
20	5.4823	5.4823
21	5.3504	5.3504
22	5.2760	5.2760
23	5.2514	5.2514
24	5.2303	5.2303
25	5.2096	5.2096
26	5.1724	5.1724
27	5.1175	5.1175
28	4.9715	4.9715
29	4.8256	4.8256
30	4.8179	4.8179
31	4.7806	4.7806
32	4.7226	4.7226
33	4.6470	4.6470
34	4.6070	4.6070
35	4.5683	4.5683
36	4.5473	4.5473
37	4.2940	4.2940
38	4.1990	4.1990
39	4.1323	4.1323
40	4.1046	4.1046
41	4.0403	4.0403
42	3.9519	3.9519
43	3.8195	3.8195
44	3.7918	3.7918
45	3.7738	3.7738
46	3.5676	3.5676
47	3.3343	3.3343
48	3.2017	3.2017
49	3.1811	3.1811
50	3.0352	3.0352
51	2.9348	2.9348
52	2.9155	2.9155
53	2.7668	2.7668
54	2.5315	2.5315

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.4395	769	769	100	Pass
2.4945	721	721	100	Pass
2.5494	671	671	100	Pass
2.6044	628	628	100	Pass
2.6594	584	584	100	Pass
2.7143	550	550	100	Pass
2.7693	510	510	100	Pass
2.8242	473	473	100	Pass
2.8792	432	432	100	Pass
2.9341	395	395	100	Pass
2.9891	375	375	100	Pass
3.0441	356	356	100	Pass
3.0990	333	333	100	Pass
3.1540	318	318	100	Pass
3.2089	291	291	100	Pass
3.2639	269	269	100	Pass
3.3188	247	247	100	Pass
3.3738	235	235	100	Pass
3.4288	217	217	100	Pass
3.4837	209	209	100	Pass
3.5387	197	197	100	Pass
3.5936	186	186	100	Pass
3.6486	178	178	100	Pass
3.7035	171	171	100	Pass
3.7585	163	163	100	Pass
3.8135	151	151	100	Pass
3.8684	145	145	100	Pass
3.9234	140	140	100	Pass
3.9783	130	130	100	Pass
4.0333	126	126	100	Pass
4.0882	119	119	100	Pass
4.1432	112	112	100	Pass
4.1982	103	103	100	Pass
4.2531	98	98	100	Pass
4.3081	92	92	100	Pass
4.3630	89	89	100	Pass
4.4180	88	88	100	Pass
4.4729	83	83	100	Pass
4.5279	79	79	100	Pass
4.5829	76	76	100	Pass
4.6378	73	73	100	Pass
4.6928	68	68	100	Pass
4.7477	65	65	100	Pass
4.8027	61	61	100	Pass
4.8576	57	57	100	Pass
4.9126	53	53	100	Pass
4.9675	49	49	100	Pass
5.0225	48	48	100	Pass
5.0775	48	48	100	Pass
5.1324	46	46	100	Pass
5.1874	43	43	100	Pass
5.2423	41	41	100	Pass
5.2973	38	38	100	Pass

5.3522	37	37	100	Pass
5.4072	36	36	100	Pass
5.4622	35	35	100	Pass
5.5171	32	32	100	Pass
5.5721	29	29	100	Pass
5.6270	26	26	100	Pass
5.6820	23	23	100	Pass
5.7369	23	23	100	Pass
5.7919	23	23	100	Pass
5.8469	21	21	100	Pass
5.9018	19	19	100	Pass
5.9568	17	17	100	Pass
6.0117	16	16	100	Pass
6.0667	15	15	100	Pass
6.1216	14	14	100	Pass
6.1766	13	13	100	Pass
6.2316	11	11	100	Pass
6.2865	11	11	100	Pass
6.3415	11	11	100	Pass
6.3964	11	11	100	Pass
6.4514	10	10	100	Pass
6.5063	9	9	100	Pass
6.5613	9	9	100	Pass
6.6163	8	8	100	Pass
6.6712	7	7	100	Pass
6.7262	6	6	100	Pass
6.7811	6	6	100	Pass
6.8361	6	6	100	Pass
6.8910	5	5	100	Pass
6.9460	5	5	100	Pass
7.0010	5	5	100	Pass
7.0559	4	4	100	Pass
7.1109	4	4	100	Pass
7.1658	4	4	100	Pass
7.2208	3	3	100	Pass
7.2757	2	2	100	Pass
7.3307	2	2	100	Pass
7.3857	1	1	100	Pass
7.4406	0	0	100	Pass
7.4956	0	0	0	Pass
7.5505	0	0	0	Pass
7.6055	0	0	0	Pass
7.6604	0	0	0	Pass
7.7154	0	0	0	Pass
7.7703	0	0	0	Pass
7.8253	0	0	0	Pass
7.8803	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #33

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

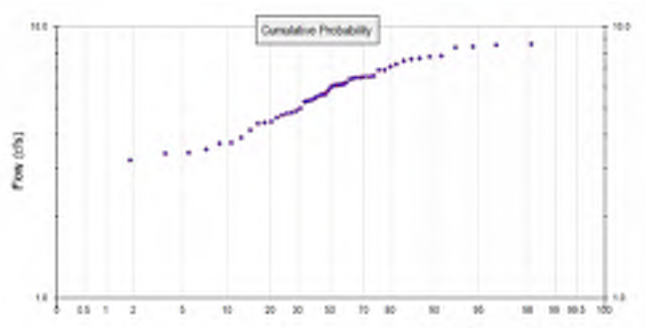
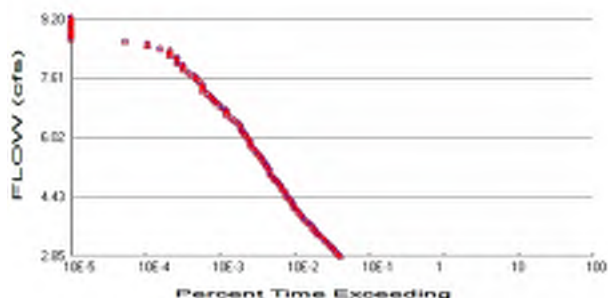
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 34



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #34

Total Pervious Area: 5.27
 Total Impervious Area: 4.87

Mitigated Landuse Totals for POC #34

Total Pervious Area: 5.27
 Total Impervious Area: 4.87

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #34

Return Period	Flow(cfs)
2 year	5.694559
5 year	7.052518
10 year	7.809794
25 year	8.64496
50 year	9.196093
100 year	9.697433

Flow Frequency Return Periods for Mitigated. POC #34

Return Period	Flow(cfs)
2 year	5.694559
5 year	7.052518
10 year	7.809794
25 year	8.64496
50 year	9.196093
100 year	9.697433

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #34

Year	Predeveloped	Mitigated
1956	6.543	6.543
1957	7.675	7.675
1958	5.580	5.580
1959	6.104	6.104
1960	6.461	6.461
1961	4.404	4.404
1962	8.582	8.582
1963	7.746	7.746
1964	6.245	6.245
1965	6.508	6.508
1966	6.570	6.570

1967	3.713	3.713
1968	6.158	6.158
1969	6.036	6.036
1970	4.901	4.901
1971	8.637	8.637
1972	7.473	7.473
1973	6.399	6.399
1974	6.565	6.565
1975	5.512	5.512
1976	6.911	6.911
1977	4.716	4.716
1978	8.475	8.475
1979	5.423	5.423
1980	4.790	4.790
1981	6.129	6.129
1982	7.103	7.103
1983	5.632	5.632
1984	5.377	5.377
1985	3.404	3.404
1986	6.497	6.497
1987	4.426	4.426
1988	6.918	6.918
1989	5.623	5.623
1990	7.798	7.798
1991	4.612	4.612
1992	3.426	3.426
1993	3.737	3.737
1994	5.332	5.332
1995	4.165	4.165
1996	5.309	5.309
1997	6.080	6.080
1998	3.543	3.543
1999	4.823	4.823
2000	4.458	4.458
2001	3.892	3.892
2002	5.014	5.014
2003	8.391	8.391
2004	7.571	7.571
2005	5.802	5.802
2006	5.973	5.973
2007	7.258	7.258
2008	3.230	3.230
2009	2.955	2.955

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #34

Rank	Predeveloped	Mitigated
1	8.6371	8.6371
2	8.5818	8.5818
3	8.4754	8.4754
4	8.3912	8.3912
5	7.7984	7.7984
6	7.7459	7.7459
7	7.6751	7.6751
8	7.5712	7.5712
9	7.4725	7.4725
10	7.2578	7.2578
11	7.1027	7.1027

12	6.9183	6.9183
13	6.9110	6.9110
14	6.5701	6.5701
15	6.5651	6.5651
16	6.5434	6.5434
17	6.5081	6.5081
18	6.4965	6.4965
19	6.4614	6.4614
20	6.3986	6.3986
21	6.2447	6.2447
22	6.1575	6.1575
23	6.1292	6.1292
24	6.1040	6.1040
25	6.0804	6.0804
26	6.0363	6.0363
27	5.9726	5.9726
28	5.8022	5.8022
29	5.6321	5.6321
30	5.6232	5.6232
31	5.5799	5.5799
32	5.5117	5.5117
33	5.4235	5.4235
34	5.3768	5.3768
35	5.3318	5.3318
36	5.3087	5.3087
37	5.0140	5.0140
38	4.9014	4.9014
39	4.8230	4.8230
40	4.7904	4.7904
41	4.7156	4.7156
42	4.6123	4.6123
43	4.4579	4.4579
44	4.4255	4.4255
45	4.4042	4.4042
46	4.1652	4.1652
47	3.8923	3.8923
48	3.7375	3.7375
49	3.7130	3.7130
50	3.5429	3.5429
51	3.4258	3.4258
52	3.4035	3.4035
53	3.2297	3.2297
54	2.9552	2.9552

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.8473	769	769	100	Pass
2.9114	721	721	100	Pass
2.9755	671	671	100	Pass
3.0397	628	628	100	Pass
3.1038	584	584	100	Pass
3.1679	550	550	100	Pass
3.2321	510	510	100	Pass
3.2962	473	473	100	Pass
3.3603	432	432	100	Pass
3.4244	395	395	100	Pass
3.4886	375	375	100	Pass
3.5527	356	356	100	Pass
3.6168	334	334	100	Pass
3.6810	318	318	100	Pass
3.7451	291	291	100	Pass
3.8092	269	269	100	Pass
3.8734	247	247	100	Pass
3.9375	234	234	100	Pass
4.0016	217	217	100	Pass
4.0657	209	209	100	Pass
4.1299	197	197	100	Pass
4.1940	186	186	100	Pass
4.2581	178	178	100	Pass
4.3223	171	171	100	Pass
4.3864	163	163	100	Pass
4.4505	151	151	100	Pass
4.5146	145	145	100	Pass
4.5788	140	140	100	Pass
4.6429	130	130	100	Pass
4.7070	126	126	100	Pass
4.7712	119	119	100	Pass
4.8353	112	112	100	Pass
4.8994	103	103	100	Pass
4.9636	98	98	100	Pass
5.0277	92	92	100	Pass
5.0918	89	89	100	Pass
5.1559	88	88	100	Pass
5.2201	83	83	100	Pass
5.2842	79	79	100	Pass
5.3483	76	76	100	Pass
5.4125	73	73	100	Pass
5.4766	68	68	100	Pass
5.5407	65	65	100	Pass
5.6048	61	61	100	Pass
5.6690	57	57	100	Pass
5.7331	53	53	100	Pass
5.7972	49	49	100	Pass
5.8614	48	48	100	Pass
5.9255	48	48	100	Pass
5.9896	46	46	100	Pass
6.0538	43	43	100	Pass
6.1179	41	41	100	Pass
6.1820	38	38	100	Pass

6.2461	37	37	100	Pass
6.3103	36	36	100	Pass
6.3744	35	35	100	Pass
6.4385	32	32	100	Pass
6.5027	29	29	100	Pass
6.5668	26	26	100	Pass
6.6309	23	23	100	Pass
6.6950	23	23	100	Pass
6.7592	23	23	100	Pass
6.8233	21	21	100	Pass
6.8874	19	19	100	Pass
6.9516	17	17	100	Pass
7.0157	16	16	100	Pass
7.0798	15	15	100	Pass
7.1440	14	14	100	Pass
7.2081	13	13	100	Pass
7.2722	11	11	100	Pass
7.3363	11	11	100	Pass
7.4005	11	11	100	Pass
7.4646	11	11	100	Pass
7.5287	10	10	100	Pass
7.5929	9	9	100	Pass
7.6570	9	9	100	Pass
7.7211	8	8	100	Pass
7.7852	7	7	100	Pass
7.8494	6	6	100	Pass
7.9135	6	6	100	Pass
7.9776	6	6	100	Pass
8.0418	5	5	100	Pass
8.1059	5	5	100	Pass
8.1700	5	5	100	Pass
8.2342	4	4	100	Pass
8.2983	4	4	100	Pass
8.3624	4	4	100	Pass
8.4265	3	3	100	Pass
8.4907	2	2	100	Pass
8.5548	2	2	100	Pass
8.6189	1	1	100	Pass
8.6831	0	0	100	Pass
8.7472	0	0	0	Pass
8.8113	0	0	0	Pass
8.8754	0	0	0	Pass
8.9396	0	0	0	Pass
9.0037	0	0	0	Pass
9.0678	0	0	0	Pass
9.1320	0	0	0	Pass
9.1961	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #34

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

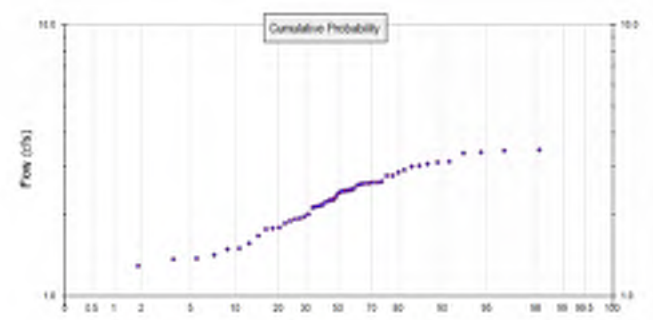
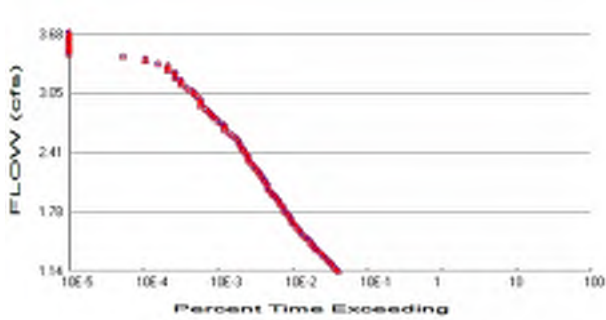
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 35



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #35

Total Pervious Area: 2.11
 Total Impervious Area: 1.95

Mitigated Landuse Totals for POC #35

Total Pervious Area: 2.11
 Total Impervious Area: 1.95

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #35

Return Period	Flow(cfs)
2 year	2.280096
5 year	2.823814
10 year	3.127022
25 year	3.461415
50 year	3.682084
100 year	3.882817

Flow Frequency Return Periods for Mitigated. POC #35

Return Period	Flow(cfs)
2 year	2.280096
5 year	2.823814
10 year	3.127022
25 year	3.461415
50 year	3.682084
100 year	3.882817

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #35

Year	Predeveloped	Mitigated
1956	2.620	2.620
1957	3.073	3.073
1958	2.234	2.234
1959	2.444	2.444
1960	2.587	2.587
1961	1.763	1.763
1962	3.436	3.436
1963	3.101	3.101
1964	2.500	2.500
1965	2.606	2.606
1966	2.631	2.631

1967	1.487	1.487
1968	2.465	2.465
1969	2.417	2.417
1970	1.963	1.963
1971	3.458	3.458
1972	2.992	2.992
1973	2.562	2.562
1974	2.629	2.629
1975	2.207	2.207
1976	2.767	2.767
1977	1.888	1.888
1978	3.394	3.394
1979	2.172	2.172
1980	1.918	1.918
1981	2.454	2.454
1982	2.844	2.844
1983	2.255	2.255
1984	2.153	2.153
1985	1.363	1.363
1986	2.601	2.601
1987	1.772	1.772
1988	2.770	2.770
1989	2.252	2.252
1990	3.122	3.122
1991	1.847	1.847
1992	1.372	1.372
1993	1.496	1.496
1994	2.135	2.135
1995	1.668	1.668
1996	2.126	2.126
1997	2.435	2.435
1998	1.419	1.419
1999	1.931	1.931
2000	1.785	1.785
2001	1.558	1.558
2002	2.008	2.008
2003	3.360	3.360
2004	3.031	3.031
2005	2.323	2.323
2006	2.391	2.391
2007	2.906	2.906
2008	1.293	1.293
2009	1.183	1.183

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #35

Rank	Predeveloped	Mitigated
1	3.4583	3.4583
2	3.4361	3.4361
3	3.3936	3.3936
4	3.3598	3.3598
5	3.1225	3.1225
6	3.1014	3.1014
7	3.0731	3.0731
8	3.0315	3.0315
9	2.9920	2.9920
10	2.9060	2.9060
11	2.8439	2.8439

12	2.7701	2.7701
13	2.7671	2.7671
14	2.6306	2.6306
15	2.6287	2.6287
16	2.6200	2.6200
17	2.6058	2.6058
18	2.6012	2.6012
19	2.5871	2.5871
20	2.5620	2.5620
21	2.5004	2.5004
22	2.4655	2.4655
23	2.4541	2.4541
24	2.4440	2.4440
25	2.4346	2.4346
26	2.4169	2.4169
27	2.3914	2.3914
28	2.3232	2.3232
29	2.2551	2.2551
30	2.2515	2.2515
31	2.2342	2.2342
32	2.2069	2.2069
33	2.1716	2.1716
34	2.1528	2.1528
35	2.1348	2.1348
36	2.1256	2.1256
37	2.0076	2.0076
38	1.9625	1.9625
39	1.9311	1.9311
40	1.9181	1.9181
41	1.8881	1.8881
42	1.8468	1.8468
43	1.7849	1.7849
44	1.7720	1.7720
45	1.7634	1.7634
46	1.6678	1.6678
47	1.5585	1.5585
48	1.4965	1.4965
49	1.4867	1.4867
50	1.4186	1.4186
51	1.3717	1.3717
52	1.3628	1.3628
53	1.2932	1.2932
54	1.1833	1.1833

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.1400	769	769	100	Pass
1.1657	722	722	100	Pass
1.1914	671	671	100	Pass
1.2171	628	628	100	Pass
1.2428	585	585	100	Pass
1.2684	550	550	100	Pass
1.2941	511	511	100	Pass
1.3198	474	474	100	Pass
1.3455	434	434	100	Pass
1.3711	395	395	100	Pass
1.3968	375	375	100	Pass
1.4225	356	356	100	Pass
1.4482	334	334	100	Pass
1.4739	318	318	100	Pass
1.4995	291	291	100	Pass
1.5252	269	269	100	Pass
1.5509	247	247	100	Pass
1.5766	235	235	100	Pass
1.6022	217	217	100	Pass
1.6279	209	209	100	Pass
1.6536	197	197	100	Pass
1.6793	186	186	100	Pass
1.7049	178	178	100	Pass
1.7306	171	171	100	Pass
1.7563	163	163	100	Pass
1.7820	151	151	100	Pass
1.8077	145	145	100	Pass
1.8333	140	140	100	Pass
1.8590	130	130	100	Pass
1.8847	126	126	100	Pass
1.9104	120	120	100	Pass
1.9360	112	112	100	Pass
1.9617	103	103	100	Pass
1.9874	98	98	100	Pass
2.0131	92	92	100	Pass
2.0387	89	89	100	Pass
2.0644	88	88	100	Pass
2.0901	83	83	100	Pass
2.1158	79	79	100	Pass
2.1415	76	76	100	Pass
2.1671	73	73	100	Pass
2.1928	68	68	100	Pass
2.2185	65	65	100	Pass
2.2442	61	61	100	Pass
2.2698	57	57	100	Pass
2.2955	53	53	100	Pass
2.3212	49	49	100	Pass
2.3469	48	48	100	Pass
2.3726	48	48	100	Pass
2.3982	46	46	100	Pass
2.4239	43	43	100	Pass
2.4496	41	41	100	Pass
2.4753	38	38	100	Pass

2.5009	38	38	100	Pass
2.5266	36	36	100	Pass
2.5523	35	35	100	Pass
2.5780	32	32	100	Pass
2.6036	29	29	100	Pass
2.6293	26	26	100	Pass
2.6550	23	23	100	Pass
2.6807	23	23	100	Pass
2.7064	23	23	100	Pass
2.7320	21	21	100	Pass
2.7577	19	19	100	Pass
2.7834	17	17	100	Pass
2.8091	16	16	100	Pass
2.8347	15	15	100	Pass
2.8604	14	14	100	Pass
2.8861	13	13	100	Pass
2.9118	11	11	100	Pass
2.9374	11	11	100	Pass
2.9631	11	11	100	Pass
2.9888	11	11	100	Pass
3.0145	10	10	100	Pass
3.0402	9	9	100	Pass
3.0658	9	9	100	Pass
3.0915	8	8	100	Pass
3.1172	7	7	100	Pass
3.1429	6	6	100	Pass
3.1685	6	6	100	Pass
3.1942	6	6	100	Pass
3.2199	5	5	100	Pass
3.2456	5	5	100	Pass
3.2712	5	5	100	Pass
3.2969	4	4	100	Pass
3.3226	4	4	100	Pass
3.3483	4	4	100	Pass
3.3740	3	3	100	Pass
3.3996	2	2	100	Pass
3.4253	2	2	100	Pass
3.4510	1	1	100	Pass
3.4767	0	0	100	Pass
3.5023	0	0	0	Pass
3.5280	0	0	0	Pass
3.5537	0	0	0	Pass
3.5794	0	0	0	Pass
3.6051	0	0	0	Pass
3.6307	0	0	0	Pass
3.6564	0	0	0	Pass
3.6821	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #35

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

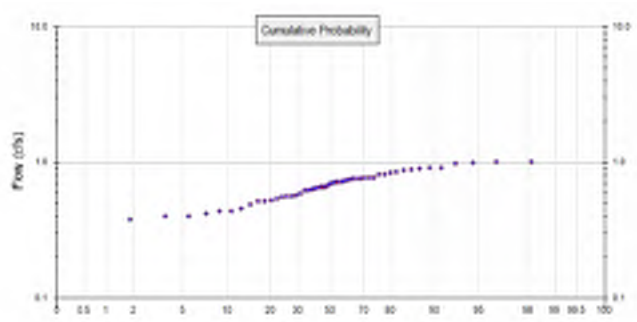
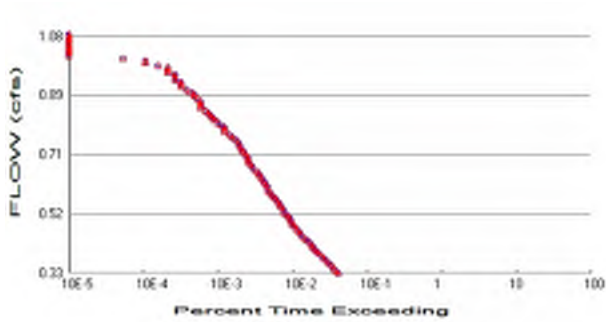
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 36



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #36

Total Pervious Area: 0.62
 Total Impervious Area: 0.57

Mitigated Landuse Totals for POC #36

Total Pervious Area: 0.62
 Total Impervious Area: 0.57

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #36

Return Period	Flow(cfs)
2 year	0.667795
5 year	0.827202
10 year	0.916108
25 year	1.014169
50 year	1.078884
100 year	1.137756

Flow Frequency Return Periods for Mitigated. POC #36

Return Period	Flow(cfs)
2 year	0.667795
5 year	0.827202
10 year	0.916108
25 year	1.014169
50 year	1.078884
100 year	1.137756

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #36

Year	Predeveloped	Mitigated
1956	0.768	0.768
1957	0.900	0.900
1958	0.654	0.654
1959	0.716	0.716
1960	0.758	0.758
1961	0.517	0.517
1962	1.007	1.007
1963	0.909	0.909
1964	0.732	0.732
1965	0.763	0.763
1966	0.771	0.771

1967	0.435	0.435
1968	0.722	0.722
1969	0.708	0.708
1970	0.575	0.575
1971	1.013	1.013
1972	0.877	0.877
1973	0.750	0.750
1974	0.770	0.770
1975	0.646	0.646
1976	0.811	0.811
1977	0.553	0.553
1978	0.994	0.994
1979	0.636	0.636
1980	0.562	0.562
1981	0.719	0.719
1982	0.833	0.833
1983	0.660	0.660
1984	0.631	0.631
1985	0.399	0.399
1986	0.762	0.762
1987	0.519	0.519
1988	0.811	0.811
1989	0.659	0.659
1990	0.915	0.915
1991	0.541	0.541
1992	0.402	0.402
1993	0.438	0.438
1994	0.625	0.625
1995	0.488	0.488
1996	0.622	0.622
1997	0.713	0.713
1998	0.415	0.415
1999	0.566	0.566
2000	0.523	0.523
2001	0.456	0.456
2002	0.587	0.587
2003	0.984	0.984
2004	0.888	0.888
2005	0.680	0.680
2006	0.701	0.701
2007	0.851	0.851
2008	0.379	0.379
2009	0.346	0.346

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #36

Rank	Predeveloped	Mitigated
1	1.0132	1.0132
2	1.0067	1.0067
3	0.9940	0.9940
4	0.9844	0.9844
5	0.9148	0.9148
6	0.9086	0.9086
7	0.9001	0.9001
8	0.8881	0.8881
9	0.8766	0.8766
10	0.8514	0.8514
11	0.8329	0.8329

12	0.8114	0.8114
13	0.8106	0.8106
14	0.7707	0.7707
15	0.7701	0.7701
16	0.7676	0.7676
17	0.7633	0.7633
18	0.7619	0.7619
19	0.7580	0.7580
20	0.7504	0.7504
21	0.7323	0.7323
22	0.7222	0.7222
23	0.7187	0.7187
24	0.7160	0.7160
25	0.7130	0.7130
26	0.7081	0.7081
27	0.7005	0.7005
28	0.6805	0.6805
29	0.6605	0.6605
30	0.6594	0.6594
31	0.6543	0.6543
32	0.6464	0.6464
33	0.6361	0.6361
34	0.6306	0.6306
35	0.6253	0.6253
36	0.6221	0.6221
37	0.5871	0.5871
38	0.5746	0.5746
39	0.5656	0.5656
40	0.5618	0.5618
41	0.5530	0.5530
42	0.5409	0.5409
43	0.5228	0.5228
44	0.5190	0.5190
45	0.5166	0.5166
46	0.4880	0.4880
47	0.4562	0.4562
48	0.4381	0.4381
49	0.4353	0.4353
50	0.4153	0.4153
51	0.4016	0.4016
52	0.3989	0.3989
53	0.3786	0.3786
54	0.3464	0.3464

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3339	774	774	100	Pass
0.3414	722	722	100	Pass
0.3489	676	676	100	Pass
0.3565	631	631	100	Pass
0.3640	586	586	100	Pass
0.3715	551	551	100	Pass
0.3790	510	510	100	Pass
0.3866	474	474	100	Pass
0.3941	430	430	100	Pass
0.4016	398	398	100	Pass
0.4091	375	375	100	Pass
0.4167	357	357	100	Pass
0.4242	335	335	100	Pass
0.4317	318	318	100	Pass
0.4392	291	291	100	Pass
0.4468	269	269	100	Pass
0.4543	248	248	100	Pass
0.4618	236	236	100	Pass
0.4693	217	217	100	Pass
0.4769	209	209	100	Pass
0.4844	197	197	100	Pass
0.4919	186	186	100	Pass
0.4995	178	178	100	Pass
0.5070	172	172	100	Pass
0.5145	163	163	100	Pass
0.5220	151	151	100	Pass
0.5296	145	145	100	Pass
0.5371	139	139	100	Pass
0.5446	131	131	100	Pass
0.5521	126	126	100	Pass
0.5597	120	120	100	Pass
0.5672	112	112	100	Pass
0.5747	104	104	100	Pass
0.5822	98	98	100	Pass
0.5898	93	93	100	Pass
0.5973	89	89	100	Pass
0.6048	88	88	100	Pass
0.6123	83	83	100	Pass
0.6199	79	79	100	Pass
0.6274	76	76	100	Pass
0.6349	73	73	100	Pass
0.6424	68	68	100	Pass
0.6500	65	65	100	Pass
0.6575	61	61	100	Pass
0.6650	56	56	100	Pass
0.6725	53	53	100	Pass
0.6801	49	49	100	Pass
0.6876	48	48	100	Pass
0.6951	48	48	100	Pass
0.7026	46	46	100	Pass
0.7102	43	43	100	Pass
0.7177	41	41	100	Pass
0.7252	38	38	100	Pass

0.7327	38	38	100	Pass
0.7403	36	36	100	Pass
0.7478	35	35	100	Pass
0.7553	32	32	100	Pass
0.7628	29	29	100	Pass
0.7704	27	27	100	Pass
0.7779	23	23	100	Pass
0.7854	23	23	100	Pass
0.7929	23	23	100	Pass
0.8005	21	21	100	Pass
0.8080	19	19	100	Pass
0.8155	17	17	100	Pass
0.8230	16	16	100	Pass
0.8306	15	15	100	Pass
0.8381	14	14	100	Pass
0.8456	13	13	100	Pass
0.8531	11	11	100	Pass
0.8607	11	11	100	Pass
0.8682	11	11	100	Pass
0.8757	11	11	100	Pass
0.8832	10	10	100	Pass
0.8908	9	9	100	Pass
0.8983	9	9	100	Pass
0.9058	8	8	100	Pass
0.9133	7	7	100	Pass
0.9209	6	6	100	Pass
0.9284	6	6	100	Pass
0.9359	6	6	100	Pass
0.9434	5	5	100	Pass
0.9510	5	5	100	Pass
0.9585	5	5	100	Pass
0.9660	4	4	100	Pass
0.9735	4	4	100	Pass
0.9811	4	4	100	Pass
0.9886	3	3	100	Pass
0.9961	2	2	100	Pass
1.0036	2	2	100	Pass
1.0112	1	1	100	Pass
1.0187	0	0	100	Pass
1.0262	0	0	0	Pass
1.0337	0	0	0	Pass
1.0413	0	0	0	Pass
1.0488	0	0	0	Pass
1.0563	0	0	0	Pass
1.0638	0	0	0	Pass
1.0714	0	0	0	Pass
1.0789	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #36

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

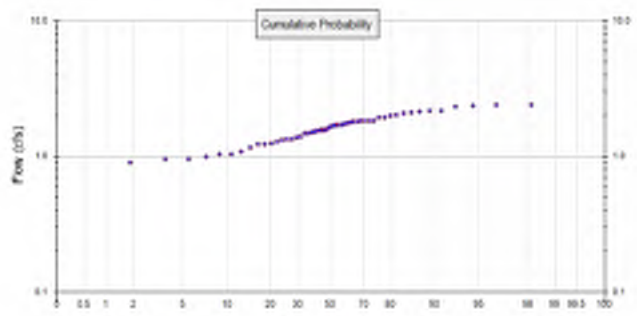
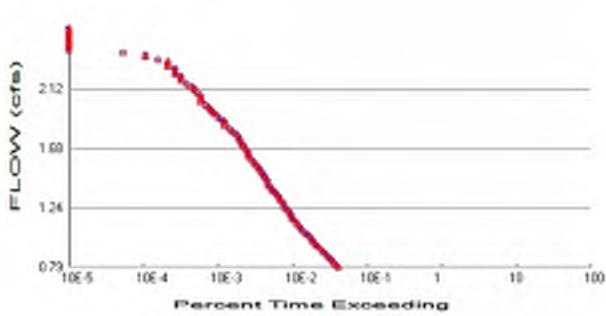
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 37



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #37

Total Pervious Area: 1.47
 Total Impervious Area: 1.36

Mitigated Landuse Totals for POC #37

Total Pervious Area: 1.47
 Total Impervious Area: 1.36

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #37

Return Period	Flow(cfs)
2 year	1.58958
5 year	1.968555
10 year	2.179886
25 year	2.412949
50 year	2.566747
100 year	2.706649

Flow Frequency Return Periods for Mitigated. POC #37

Return Period	Flow(cfs)
2 year	1.58958
5 year	1.968555
10 year	2.179886
25 year	2.412949
50 year	2.566747
100 year	2.706649

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #37

Year	Predeveloped	Mitigated
1956	1.826	1.826
1957	2.142	2.142
1958	1.558	1.558
1959	1.704	1.704
1960	1.803	1.803
1961	1.229	1.229
1962	2.395	2.395
1963	2.162	2.162
1964	1.743	1.743
1965	1.817	1.817
1966	1.834	1.834

1967	1.036	1.036
1968	1.719	1.719
1969	1.685	1.685
1970	1.368	1.368
1971	2.411	2.411
1972	2.086	2.086
1973	1.786	1.786
1974	1.832	1.832
1975	1.539	1.539
1976	1.929	1.929
1977	1.316	1.316
1978	2.366	2.366
1979	1.514	1.514
1980	1.337	1.337
1981	1.711	1.711
1982	1.983	1.983
1983	1.572	1.572
1984	1.501	1.501
1985	0.950	0.950
1986	1.813	1.813
1987	1.235	1.235
1988	1.931	1.931
1989	1.570	1.570
1990	2.177	2.177
1991	1.287	1.287
1992	0.956	0.956
1993	1.043	1.043
1994	1.488	1.488
1995	1.163	1.163
1996	1.482	1.482
1997	1.697	1.697
1998	0.989	0.989
1999	1.346	1.346
2000	1.244	1.244
2001	1.087	1.087
2002	1.400	1.400
2003	2.342	2.342
2004	2.113	2.113
2005	1.620	1.620
2006	1.667	1.667
2007	2.026	2.026
2008	0.902	0.902
2009	0.825	0.825

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #37

Rank	Predeveloped	Mitigated
1	2.4108	2.4108
2	2.3953	2.3953
3	2.3658	2.3658
4	2.3421	2.3421
5	2.1767	2.1767
6	2.1621	2.1621
7	2.1424	2.1424
8	2.1133	2.1133
9	2.0857	2.0857
10	2.0258	2.0258
11	1.9826	1.9826

12	1.9311	1.9311
13	1.9290	1.9290
14	1.8338	1.8338
15	1.8325	1.8325
16	1.8264	1.8264
17	1.8166	1.8166
18	1.8134	1.8134
19	1.8035	1.8035
20	1.7861	1.7861
21	1.7432	1.7432
22	1.7187	1.7187
23	1.7109	1.7109
24	1.7038	1.7038
25	1.6973	1.6973
26	1.6849	1.6849
27	1.6671	1.6671
28	1.6196	1.6196
29	1.5722	1.5722
30	1.5697	1.5697
31	1.5576	1.5576
32	1.5385	1.5385
33	1.5139	1.5139
34	1.5008	1.5008
35	1.4883	1.4883
36	1.4821	1.4821
37	1.4000	1.4000
38	1.3683	1.3683
39	1.3463	1.3463
40	1.3372	1.3372
41	1.3163	1.3163
42	1.2875	1.2875
43	1.2444	1.2444
44	1.2353	1.2353
45	1.2293	1.2293
46	1.1630	1.1630
47	1.0866	1.0866
48	1.0434	1.0434
49	1.0365	1.0365
50	0.9891	0.9891
51	0.9564	0.9564
52	0.9502	0.9502
53	0.9016	0.9016
54	0.8250	0.8250

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.7948	771	771	100	Pass
0.8127	723	723	100	Pass
0.8306	671	671	100	Pass
0.8485	629	629	100	Pass
0.8664	585	585	100	Pass
0.8843	550	550	100	Pass
0.9022	511	511	100	Pass
0.9201	473	473	100	Pass
0.9380	435	435	100	Pass
0.9559	396	396	100	Pass
0.9738	376	376	100	Pass
0.9917	357	357	100	Pass
1.0096	335	335	100	Pass
1.0275	318	318	100	Pass
1.0454	291	291	100	Pass
1.0633	269	269	100	Pass
1.0812	247	247	100	Pass
1.0991	234	234	100	Pass
1.1170	217	217	100	Pass
1.1349	209	209	100	Pass
1.1528	197	197	100	Pass
1.1707	186	186	100	Pass
1.1886	178	178	100	Pass
1.2065	171	171	100	Pass
1.2244	163	163	100	Pass
1.2423	151	151	100	Pass
1.2602	145	145	100	Pass
1.2781	140	140	100	Pass
1.2959	130	130	100	Pass
1.3138	126	126	100	Pass
1.3317	120	120	100	Pass
1.3496	112	112	100	Pass
1.3675	103	103	100	Pass
1.3854	98	98	100	Pass
1.4033	93	93	100	Pass
1.4212	89	89	100	Pass
1.4391	88	88	100	Pass
1.4570	83	83	100	Pass
1.4749	79	79	100	Pass
1.4928	76	76	100	Pass
1.5107	73	73	100	Pass
1.5286	68	68	100	Pass
1.5465	65	65	100	Pass
1.5644	61	61	100	Pass
1.5823	57	57	100	Pass
1.6002	53	53	100	Pass
1.6181	49	49	100	Pass
1.6360	48	48	100	Pass
1.6539	48	48	100	Pass
1.6718	46	46	100	Pass
1.6897	43	43	100	Pass
1.7076	41	41	100	Pass
1.7255	38	38	100	Pass

1.7434	38	38	100	Pass
1.7613	36	36	100	Pass
1.7792	35	35	100	Pass
1.7971	32	32	100	Pass
1.8150	29	29	100	Pass
1.8329	27	27	100	Pass
1.8508	23	23	100	Pass
1.8687	23	23	100	Pass
1.8866	23	23	100	Pass
1.9045	21	21	100	Pass
1.9224	19	19	100	Pass
1.9403	17	17	100	Pass
1.9582	16	16	100	Pass
1.9761	15	15	100	Pass
1.9940	14	14	100	Pass
2.0119	13	13	100	Pass
2.0298	11	11	100	Pass
2.0477	11	11	100	Pass
2.0656	11	11	100	Pass
2.0835	11	11	100	Pass
2.1014	10	10	100	Pass
2.1193	9	9	100	Pass
2.1372	9	9	100	Pass
2.1551	8	8	100	Pass
2.1730	7	7	100	Pass
2.1909	6	6	100	Pass
2.2088	6	6	100	Pass
2.2267	6	6	100	Pass
2.2446	5	5	100	Pass
2.2625	5	5	100	Pass
2.2804	5	5	100	Pass
2.2983	4	4	100	Pass
2.3162	4	4	100	Pass
2.3341	4	4	100	Pass
2.3520	3	3	100	Pass
2.3699	2	2	100	Pass
2.3878	2	2	100	Pass
2.4057	1	1	100	Pass
2.4236	0	0	100	Pass
2.4415	0	0	0	Pass
2.4594	0	0	0	Pass
2.4773	0	0	0	Pass
2.4952	0	0	0	Pass
2.5131	0	0	0	Pass
2.5309	0	0	0	Pass
2.5488	0	0	0	Pass
2.5667	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #37

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

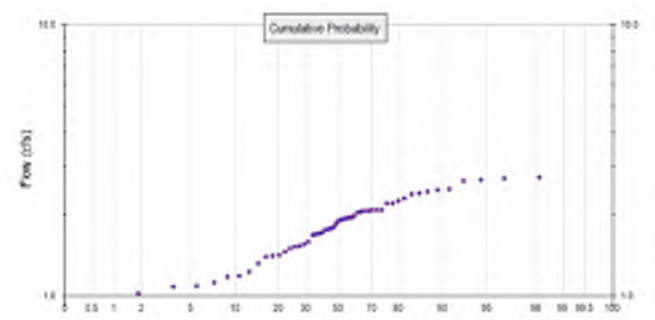
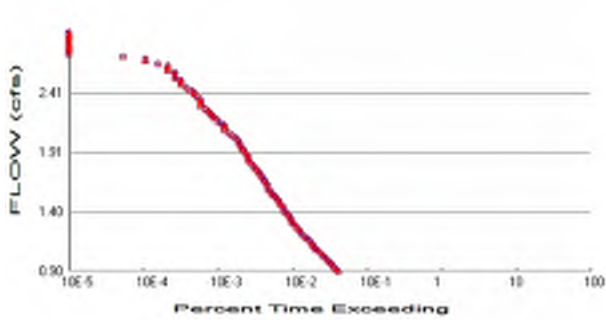
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 38



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #38

Total Pervious Area: 1.67
 Total Impervious Area: 1.54

Mitigated Landuse Totals for POC #38

Total Pervious Area: 1.67
 Total Impervious Area: 1.54

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #38

Return Period	Flow(cfs)
2 year	1.802162
5 year	2.232093
10 year	2.471861
25 year	2.736301
50 year	2.910812
100 year	3.06956

Flow Frequency Return Periods for Mitigated. POC #38

Return Period	Flow(cfs)
2 year	1.802162
5 year	2.232093
10 year	2.471861
25 year	2.736301
50 year	2.910812
100 year	3.06956

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #38

Year	Predeveloped	Mitigated
1956	2.071	2.071
1957	2.429	2.429
1958	1.766	1.766
1959	1.932	1.932
1960	2.045	2.045
1961	1.394	1.394
1962	2.716	2.716
1963	2.452	2.452
1964	1.976	1.976
1965	2.060	2.060
1966	2.079	2.079

1967	1.175	1.175
1968	1.949	1.949
1969	1.911	1.911
1970	1.551	1.551
1971	2.734	2.734
1972	2.365	2.365
1973	2.025	2.025
1974	2.078	2.078
1975	1.744	1.744
1976	2.187	2.187
1977	1.492	1.492
1978	2.682	2.682
1979	1.716	1.716
1980	1.516	1.516
1981	1.940	1.940
1982	2.248	2.248
1983	1.782	1.782
1984	1.702	1.702
1985	1.077	1.077
1986	2.056	2.056
1987	1.401	1.401
1988	2.190	2.190
1989	1.780	1.780
1990	2.468	2.468
1991	1.460	1.460
1992	1.084	1.084
1993	1.183	1.183
1994	1.687	1.687
1995	1.318	1.318
1996	1.680	1.680
1997	1.924	1.924
1998	1.121	1.121
1999	1.526	1.526
2000	1.411	1.411
2001	1.232	1.232
2002	1.586	1.586
2003	2.656	2.656
2004	2.396	2.396
2005	1.836	1.836
2006	1.890	1.890
2007	2.297	2.297
2008	1.022	1.022
2009	0.935	0.935

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #38

Rank	Predeveloped	Mitigated
1	2.7337	2.7337
2	2.7163	2.7163
3	2.6823	2.6823
4	2.6560	2.6560
5	2.4683	2.4683
6	2.4516	2.4516
7	2.4291	2.4291
8	2.3963	2.3963
9	2.3652	2.3652
10	2.2972	2.2972
11	2.2478	2.2478

12	2.1896	2.1896
13	2.1873	2.1873
14	2.0795	2.0795
15	2.0779	2.0779
16	2.0711	2.0711
17	2.0598	2.0598
18	2.0561	2.0561
19	2.0451	2.0451
20	2.0250	2.0250
21	1.9763	1.9763
22	1.9488	1.9488
23	1.9397	1.9397
24	1.9320	1.9320
25	1.9242	1.9242
26	1.9106	1.9106
27	1.8903	1.8903
28	1.8363	1.8363
29	1.7824	1.7824
30	1.7796	1.7796
31	1.7658	1.7658
32	1.7444	1.7444
33	1.7165	1.7165
34	1.7017	1.7017
35	1.6874	1.6874
36	1.6795	1.6795
37	1.5859	1.5859
38	1.5509	1.5509
39	1.5263	1.5263
40	1.5161	1.5161
41	1.4923	1.4923
42	1.4597	1.4597
43	1.4108	1.4108
44	1.4006	1.4006
45	1.3939	1.3939
46	1.3176	1.3176
47	1.2315	1.2315
48	1.1825	1.1825
49	1.1750	1.1750
50	1.1211	1.1211
51	1.0840	1.0840
52	1.0768	1.0768
53	1.0219	1.0219
54	0.9350	0.9350

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.9011	769	769	100	Pass
0.9214	722	722	100	Pass
0.9417	671	671	100	Pass
0.9620	630	630	100	Pass
0.9823	584	584	100	Pass
1.0026	550	550	100	Pass
1.0229	511	511	100	Pass
1.0432	473	473	100	Pass
1.0635	434	434	100	Pass
1.0838	395	395	100	Pass
1.1041	375	375	100	Pass
1.1244	356	356	100	Pass
1.1447	335	335	100	Pass
1.1650	318	318	100	Pass
1.1853	291	291	100	Pass
1.2056	269	269	100	Pass
1.2259	248	248	100	Pass
1.2462	235	235	100	Pass
1.2665	217	217	100	Pass
1.2868	209	209	100	Pass
1.3071	196	196	100	Pass
1.3274	186	186	100	Pass
1.3477	178	178	100	Pass
1.3680	171	171	100	Pass
1.3883	163	163	100	Pass
1.4086	151	151	100	Pass
1.4289	145	145	100	Pass
1.4492	140	140	100	Pass
1.4695	130	130	100	Pass
1.4898	126	126	100	Pass
1.5101	119	119	100	Pass
1.5304	112	112	100	Pass
1.5507	103	103	100	Pass
1.5710	98	98	100	Pass
1.5913	93	93	100	Pass
1.6116	89	89	100	Pass
1.6319	88	88	100	Pass
1.6522	83	83	100	Pass
1.6725	79	79	100	Pass
1.6928	76	76	100	Pass
1.7131	73	73	100	Pass
1.7334	68	68	100	Pass
1.7537	65	65	100	Pass
1.7740	61	61	100	Pass
1.7943	57	57	100	Pass
1.8146	53	53	100	Pass
1.8349	49	49	100	Pass
1.8552	48	48	100	Pass
1.8755	48	48	100	Pass
1.8958	46	46	100	Pass
1.9161	43	43	100	Pass
1.9364	41	41	100	Pass
1.9567	38	38	100	Pass

1.9770	38	38	100	Pass
1.9973	36	36	100	Pass
2.0176	35	35	100	Pass
2.0379	32	32	100	Pass
2.0582	29	29	100	Pass
2.0785	26	26	100	Pass
2.0988	23	23	100	Pass
2.1191	23	23	100	Pass
2.1394	23	23	100	Pass
2.1597	21	21	100	Pass
2.1800	19	19	100	Pass
2.2003	17	17	100	Pass
2.2206	16	16	100	Pass
2.2409	15	15	100	Pass
2.2612	14	14	100	Pass
2.2815	13	13	100	Pass
2.3018	11	11	100	Pass
2.3221	11	11	100	Pass
2.3424	11	11	100	Pass
2.3627	11	11	100	Pass
2.3830	10	10	100	Pass
2.4033	9	9	100	Pass
2.4236	9	9	100	Pass
2.4439	8	8	100	Pass
2.4642	7	7	100	Pass
2.4845	6	6	100	Pass
2.5048	6	6	100	Pass
2.5251	6	6	100	Pass
2.5454	5	5	100	Pass
2.5657	5	5	100	Pass
2.5860	5	5	100	Pass
2.6063	4	4	100	Pass
2.6266	4	4	100	Pass
2.6469	4	4	100	Pass
2.6672	3	3	100	Pass
2.6875	2	2	100	Pass
2.7078	2	2	100	Pass
2.7281	1	1	100	Pass
2.7484	0	0	100	Pass
2.7687	0	0	0	Pass
2.7890	0	0	0	Pass
2.8093	0	0	0	Pass
2.8296	0	0	0	Pass
2.8499	0	0	0	Pass
2.8702	0	0	0	Pass
2.8905	0	0	0	Pass
2.9108	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #38

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

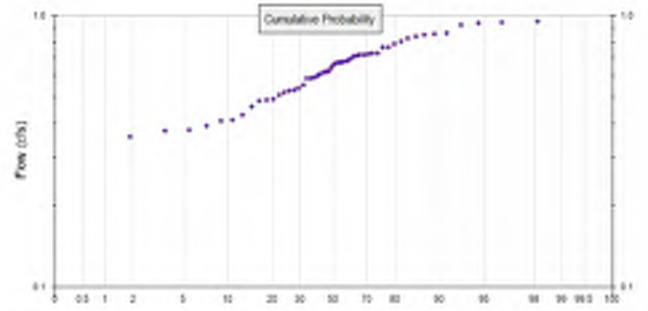
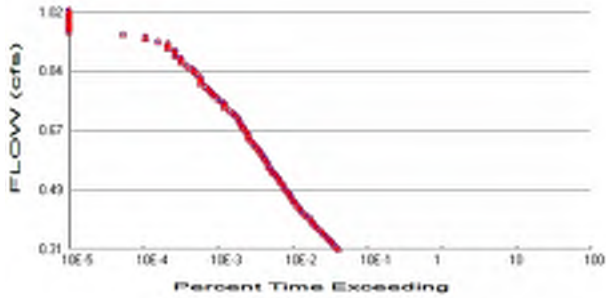
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 39



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #39

Total Pervious Area: 0.58
Total Impervious Area: 0.54

Mitigated Landuse Totals for POC #39

Total Pervious Area: 0.58
Total Impervious Area: 0.54

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #39

Return Period	Flow(cfs)
2 year	0.629671
5 year	0.779607
10 year	0.863203
25 year	0.955386
50 year	1.016211
100 year	1.071537

Flow Frequency Return Periods for Mitigated. POC #39

Return Period	Flow(cfs)
2 year	0.629671
5 year	0.779607
10 year	0.863203
25 year	0.955386
50 year	1.016211
100 year	1.071537

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #39

Year	Predeveloped	Mitigated
1956	0.723	0.723
1957	0.849	0.849
1958	0.617	0.617
1959	0.675	0.675
1960	0.714	0.714
1961	0.487	0.487
1962	0.948	0.948
1963	0.856	0.856
1964	0.691	0.691
1965	0.719	0.719
1966	0.726	0.726

1967	0.411	0.411
1968	0.681	0.681
1969	0.667	0.667
1970	0.542	0.542
1971	0.955	0.955
1972	0.826	0.826
1973	0.707	0.707
1974	0.726	0.726
1975	0.609	0.609
1976	0.764	0.764
1977	0.521	0.521
1978	0.937	0.937
1979	0.600	0.600
1980	0.530	0.530
1981	0.678	0.678
1982	0.785	0.785
1983	0.623	0.623
1984	0.594	0.594
1985	0.377	0.377
1986	0.718	0.718
1987	0.489	0.489
1988	0.765	0.765
1989	0.622	0.622
1990	0.862	0.862
1991	0.510	0.510
1992	0.379	0.379
1993	0.414	0.414
1994	0.590	0.590
1995	0.461	0.461
1996	0.588	0.588
1997	0.672	0.672
1998	0.392	0.392
1999	0.533	0.533
2000	0.493	0.493
2001	0.431	0.431
2002	0.556	0.556
2003	0.927	0.927
2004	0.837	0.837
2005	0.641	0.641
2006	0.660	0.660
2007	0.802	0.802
2008	0.357	0.357
2009	0.327	0.327

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #39

Rank	Predeveloped	Mitigated
1	0.9546	0.9546
2	0.9484	0.9484
3	0.9371	0.9371
4	0.9274	0.9274
5	0.8619	0.8619
6	0.8561	0.8561
7	0.8485	0.8485
8	0.8369	0.8369
9	0.8258	0.8258
10	0.8022	0.8022
11	0.7854	0.7854

12	0.7648	0.7648
13	0.7639	0.7639
14	0.7262	0.7262
15	0.7256	0.7256
16	0.7232	0.7232
17	0.7194	0.7194
18	0.7182	0.7182
19	0.7141	0.7141
20	0.7075	0.7075
21	0.6905	0.6905
22	0.6807	0.6807
23	0.6778	0.6778
24	0.6747	0.6747
25	0.6724	0.6724
26	0.6672	0.6672
27	0.6603	0.6603
28	0.6415	0.6415
29	0.6228	0.6228
30	0.6218	0.6218
31	0.6171	0.6171
32	0.6094	0.6094
33	0.5996	0.5996
34	0.5944	0.5944
35	0.5895	0.5895
36	0.5877	0.5877
37	0.5556	0.5556
38	0.5422	0.5422
39	0.5333	0.5333
40	0.5296	0.5296
41	0.5215	0.5215
42	0.5100	0.5100
43	0.4929	0.4929
44	0.4893	0.4893
45	0.4868	0.4868
46	0.4612	0.4612
47	0.4307	0.4307
48	0.4136	0.4136
49	0.4107	0.4107
50	0.3920	0.3920
51	0.3790	0.3790
52	0.3767	0.3767
53	0.3573	0.3573
54	0.3270	0.3270

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3148	774	774	100	Pass
0.3219	728	728	100	Pass
0.3290	671	671	100	Pass
0.3361	629	629	100	Pass
0.3432	586	586	100	Pass
0.3503	551	551	100	Pass
0.3573	512	512	100	Pass
0.3644	476	476	100	Pass
0.3715	438	438	100	Pass
0.3786	400	400	100	Pass
0.3857	376	376	100	Pass
0.3928	357	357	100	Pass
0.3999	335	335	100	Pass
0.4069	320	320	100	Pass
0.4140	291	291	100	Pass
0.4211	269	269	100	Pass
0.4282	247	247	100	Pass
0.4353	235	235	100	Pass
0.4424	218	218	100	Pass
0.4494	209	209	100	Pass
0.4565	198	198	100	Pass
0.4636	187	187	100	Pass
0.4707	178	178	100	Pass
0.4778	172	172	100	Pass
0.4849	163	163	100	Pass
0.4920	153	153	100	Pass
0.4990	145	145	100	Pass
0.5061	140	140	100	Pass
0.5132	130	130	100	Pass
0.5203	126	126	100	Pass
0.5274	120	120	100	Pass
0.5345	112	112	100	Pass
0.5415	103	103	100	Pass
0.5486	98	98	100	Pass
0.5557	94	94	100	Pass
0.5628	90	90	100	Pass
0.5699	88	88	100	Pass
0.5770	83	83	100	Pass
0.5841	79	79	100	Pass
0.5911	76	76	100	Pass
0.5982	73	73	100	Pass
0.6053	68	68	100	Pass
0.6124	65	65	100	Pass
0.6195	61	61	100	Pass
0.6266	57	57	100	Pass
0.6336	53	53	100	Pass
0.6407	50	50	100	Pass
0.6478	48	48	100	Pass
0.6549	48	48	100	Pass
0.6620	46	46	100	Pass
0.6691	43	43	100	Pass
0.6762	41	41	100	Pass
0.6832	38	38	100	Pass

0.6903	38	38	100	Pass
0.6974	36	36	100	Pass
0.7045	35	35	100	Pass
0.7116	32	32	100	Pass
0.7187	30	30	100	Pass
0.7257	27	27	100	Pass
0.7328	23	23	100	Pass
0.7399	23	23	100	Pass
0.7470	23	23	100	Pass
0.7541	21	21	100	Pass
0.7612	19	19	100	Pass
0.7682	17	17	100	Pass
0.7753	16	16	100	Pass
0.7824	15	15	100	Pass
0.7895	14	14	100	Pass
0.7966	13	13	100	Pass
0.8037	11	11	100	Pass
0.8108	11	11	100	Pass
0.8178	11	11	100	Pass
0.8249	11	11	100	Pass
0.8320	10	10	100	Pass
0.8391	9	9	100	Pass
0.8462	9	9	100	Pass
0.8533	8	8	100	Pass
0.8603	7	7	100	Pass
0.8674	6	6	100	Pass
0.8745	6	6	100	Pass
0.8816	6	6	100	Pass
0.8887	5	5	100	Pass
0.8958	5	5	100	Pass
0.9029	5	5	100	Pass
0.9099	4	4	100	Pass
0.9170	4	4	100	Pass
0.9241	4	4	100	Pass
0.9312	3	3	100	Pass
0.9383	2	2	100	Pass
0.9454	2	2	100	Pass
0.9524	1	1	100	Pass
0.9595	0	0	100	Pass
0.9666	0	0	0	Pass
0.9737	0	0	0	Pass
0.9808	0	0	0	Pass
0.9879	0	0	0	Pass
0.9950	0	0	0	Pass
1.0020	0	0	0	Pass
1.0091	0	0	0	Pass
1.0162	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #39

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

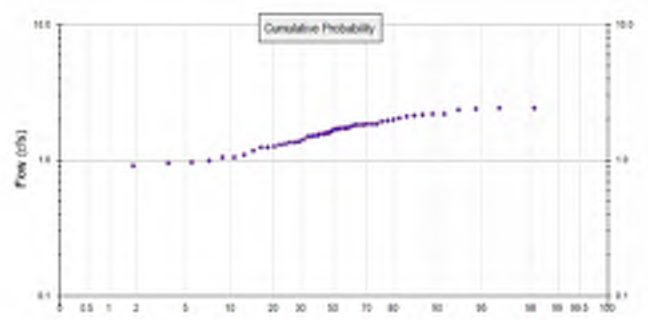
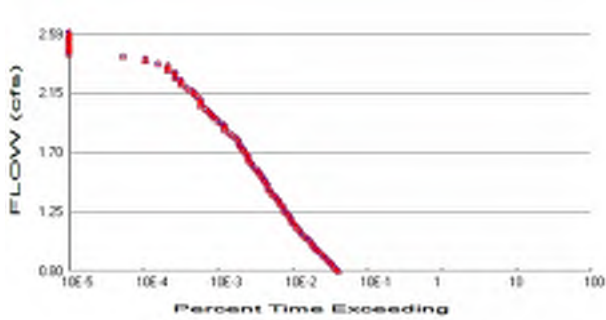
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 40



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #40

Total Pervious Area: 1.49
Total Impervious Area: 1.37

Mitigated Landuse Totals for POC #40

Total Pervious Area: 1.49
Total Impervious Area: 1.37

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #40

Return Period	Flow(cfs)
2 year	1.604981
5 year	1.98809
10 year	2.201762
25 year	2.437434
50 year	2.592966
100 year	2.734455

Flow Frequency Return Periods for Mitigated. POC #40

Return Period	Flow(cfs)
2 year	1.604981
5 year	1.98809
10 year	2.201762
25 year	2.437434
50 year	2.592966
100 year	2.734455

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #40

Year	Predeveloped	Mitigated
1956	1.845	1.845
1957	2.163	2.163
1958	1.572	1.572
1959	1.721	1.721
1960	1.822	1.822
1961	1.242	1.242
1962	2.420	2.420
1963	2.184	2.184
1964	1.760	1.760
1965	1.835	1.835
1966	1.852	1.852

1967	1.046	1.046
1968	1.736	1.736
1969	1.702	1.702
1970	1.381	1.381
1971	2.435	2.435
1972	2.107	2.107
1973	1.803	1.803
1974	1.851	1.851
1975	1.554	1.554
1976	1.948	1.948
1977	1.329	1.329
1978	2.389	2.389
1979	1.529	1.529
1980	1.350	1.350
1981	1.727	1.727
1982	2.002	2.002
1983	1.587	1.587
1984	1.516	1.516
1985	0.959	0.959
1986	1.831	1.831
1987	1.247	1.247
1988	1.950	1.950
1989	1.585	1.585
1990	2.199	2.199
1991	1.300	1.300
1992	0.965	0.965
1993	1.053	1.053
1994	1.503	1.503
1995	1.173	1.173
1996	1.495	1.495
1997	1.714	1.714
1998	0.998	0.998
1999	1.359	1.359
2000	1.256	1.256
2001	1.096	1.096
2002	1.411	1.411
2003	2.366	2.366
2004	2.134	2.134
2005	1.636	1.636
2006	1.684	1.684
2007	2.046	2.046
2008	0.910	0.910
2009	0.832	0.832

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #40

Rank	Predeveloped	Mitigated
1	2.4350	2.4350
2	2.4196	2.4196
3	2.3889	2.3889
4	2.3659	2.3659
5	2.1986	2.1986
6	2.1837	2.1837
7	2.1634	2.1634
8	2.1344	2.1344
9	2.1069	2.1069
10	2.0461	2.0461
11	2.0018	2.0018

12	1.9502	1.9502
13	1.9482	1.9482
14	1.8523	1.8523
15	1.8509	1.8509
16	1.8448	1.8448
17	1.8346	1.8346
18	1.8313	1.8313
19	1.8217	1.8217
20	1.8035	1.8035
21	1.7600	1.7600
22	1.7358	1.7358
23	1.7274	1.7274
24	1.7208	1.7208
25	1.7136	1.7136
26	1.7018	1.7018
27	1.6836	1.6836
28	1.6355	1.6355
29	1.5874	1.5874
30	1.5849	1.5849
31	1.5724	1.5724
32	1.5536	1.5536
33	1.5288	1.5288
34	1.5156	1.5156
35	1.5028	1.5028
36	1.4951	1.4951
37	1.4112	1.4112
38	1.3810	1.3810
39	1.3594	1.3594
40	1.3503	1.3503
41	1.3290	1.3290
42	1.3000	1.3000
43	1.2564	1.2564
44	1.2474	1.2474
45	1.2416	1.2416
46	1.1728	1.1728
47	1.0964	1.0964
48	1.0528	1.0528
49	1.0463	1.0463
50	0.9982	0.9982
51	0.9652	0.9652
52	0.9586	0.9586
53	0.9099	0.9099
54	0.8324	0.8324

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.8025	769	769	100	Pass
0.8206	722	722	100	Pass
0.8387	671	671	100	Pass
0.8567	629	629	100	Pass
0.8748	585	585	100	Pass
0.8929	550	550	100	Pass
0.9110	510	510	100	Pass
0.9291	473	473	100	Pass
0.9472	430	430	100	Pass
0.9653	395	395	100	Pass
0.9833	375	375	100	Pass
1.0014	356	356	100	Pass
1.0195	335	335	100	Pass
1.0376	318	318	100	Pass
1.0557	291	291	100	Pass
1.0738	269	269	100	Pass
1.0919	248	248	100	Pass
1.1099	235	235	100	Pass
1.1280	216	216	100	Pass
1.1461	209	209	100	Pass
1.1642	197	197	100	Pass
1.1823	186	186	100	Pass
1.2004	178	178	100	Pass
1.2185	171	171	100	Pass
1.2365	163	163	100	Pass
1.2546	151	151	100	Pass
1.2727	145	145	100	Pass
1.2908	140	140	100	Pass
1.3089	130	130	100	Pass
1.3270	126	126	100	Pass
1.3451	119	119	100	Pass
1.3631	112	112	100	Pass
1.3812	102	102	100	Pass
1.3993	98	98	100	Pass
1.4174	93	93	100	Pass
1.4355	89	89	100	Pass
1.4536	88	88	100	Pass
1.4717	83	83	100	Pass
1.4897	79	79	100	Pass
1.5078	76	76	100	Pass
1.5259	73	73	100	Pass
1.5440	68	68	100	Pass
1.5621	64	64	100	Pass
1.5802	61	61	100	Pass
1.5983	56	56	100	Pass
1.6163	53	53	100	Pass
1.6344	49	49	100	Pass
1.6525	48	48	100	Pass
1.6706	48	48	100	Pass
1.6887	46	46	100	Pass
1.7068	43	43	100	Pass
1.7249	41	41	100	Pass
1.7429	38	38	100	Pass

1.7610	37	37	100	Pass
1.7791	36	36	100	Pass
1.7972	35	35	100	Pass
1.8153	32	32	100	Pass
1.8334	29	29	100	Pass
1.8515	26	26	100	Pass
1.8695	23	23	100	Pass
1.8876	23	23	100	Pass
1.9057	23	23	100	Pass
1.9238	21	21	100	Pass
1.9419	19	19	100	Pass
1.9600	17	17	100	Pass
1.9781	16	16	100	Pass
1.9961	15	15	100	Pass
2.0142	14	14	100	Pass
2.0323	13	13	100	Pass
2.0504	11	11	100	Pass
2.0685	11	11	100	Pass
2.0866	11	11	100	Pass
2.1047	11	11	100	Pass
2.1227	10	10	100	Pass
2.1408	9	9	100	Pass
2.1589	9	9	100	Pass
2.1770	8	8	100	Pass
2.1951	7	7	100	Pass
2.2132	6	6	100	Pass
2.2313	6	6	100	Pass
2.2493	6	6	100	Pass
2.2674	5	5	100	Pass
2.2855	5	5	100	Pass
2.3036	5	5	100	Pass
2.3217	4	4	100	Pass
2.3398	4	4	100	Pass
2.3579	4	4	100	Pass
2.3759	3	3	100	Pass
2.3940	2	2	100	Pass
2.4121	2	2	100	Pass
2.4302	1	1	100	Pass
2.4483	0	0	100	Pass
2.4664	0	0	0	Pass
2.4845	0	0	0	Pass
2.5025	0	0	0	Pass
2.5206	0	0	0	Pass
2.5387	0	0	0	Pass
2.5568	0	0	0	Pass
2.5749	0	0	0	Pass
2.5930	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #40

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

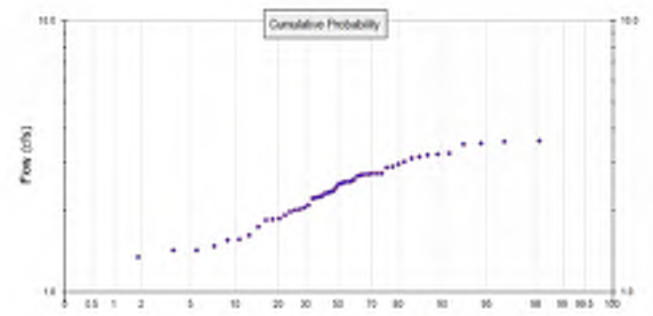
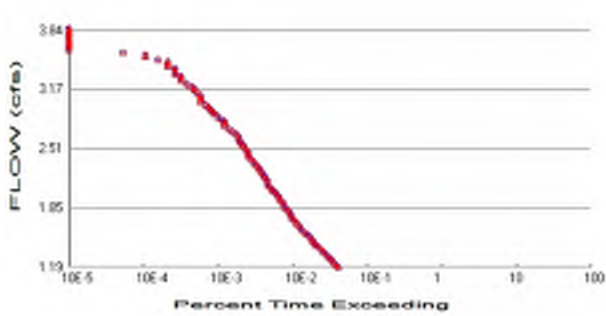
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 41



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #41

Total Pervious Area: 2.2
Total Impervious Area: 2.03

Mitigated Landuse Totals for POC #41

Total Pervious Area: 2.2
Total Impervious Area: 2.03

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #41

Return Period	Flow(cfs)
2 year	2.375027
5 year	2.941554
10 year	3.257495
25 year	3.605942
50 year	3.83589
100 year	4.045066

Flow Frequency Return Periods for Mitigated. POC #41

Return Period	Flow(cfs)
2 year	2.375027
5 year	2.941554
10 year	3.257495
25 year	3.605942
50 year	3.83589
100 year	4.045066

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #41

Year	Predeveloped	Mitigated
1956	2.729	2.729
1957	3.201	3.201
1958	2.327	2.327
1959	2.546	2.546
1960	2.695	2.695
1961	1.837	1.837
1962	3.580	3.580
1963	3.231	3.231
1964	2.604	2.604
1965	2.714	2.714
1966	2.740	2.740

1967	1.548	1.548
1968	2.568	2.568
1969	2.518	2.518
1970	2.044	2.044
1971	3.603	3.603
1972	3.117	3.117
1973	2.669	2.669
1974	2.738	2.738
1975	2.299	2.299
1976	2.883	2.883
1977	1.967	1.967
1978	3.535	3.535
1979	2.262	2.262
1980	1.998	1.998
1981	2.556	2.556
1982	2.962	2.962
1983	2.349	2.349
1984	2.243	2.243
1985	1.419	1.419
1986	2.710	2.710
1987	1.846	1.846
1988	2.886	2.886
1989	2.345	2.345
1990	3.253	3.253
1991	1.924	1.924
1992	1.429	1.429
1993	1.559	1.559
1994	2.224	2.224
1995	1.737	1.737
1996	2.214	2.214
1997	2.536	2.536
1998	1.478	1.478
1999	2.012	2.012
2000	1.859	1.859
2001	1.623	1.623
2002	2.090	2.090
2003	3.500	3.500
2004	3.158	3.158
2005	2.420	2.420
2006	2.491	2.491
2007	3.027	3.027
2008	1.347	1.347
2009	1.232	1.232

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #41

Rank	Predeveloped	Mitigated
1	3.6026	3.6026
2	3.5796	3.5796
3	3.5349	3.5349
4	3.5001	3.5001
5	3.2528	3.2528
6	3.2308	3.2308
7	3.2012	3.2012
8	3.1579	3.1579
9	3.1169	3.1169
10	3.0273	3.0273
11	2.9623	2.9623

12	2.8855	2.8855
13	2.8825	2.8825
14	2.7404	2.7404
15	2.7384	2.7384
16	2.7293	2.7293
17	2.7145	2.7145
18	2.7096	2.7096
19	2.6951	2.6951
20	2.6687	2.6687
21	2.6045	2.6045
22	2.5683	2.5683
23	2.5563	2.5563
24	2.5460	2.5460
25	2.5359	2.5359
26	2.5178	2.5178
27	2.4911	2.4911
28	2.4200	2.4200
29	2.3490	2.3490
30	2.3453	2.3453
31	2.3271	2.3271
32	2.2988	2.2988
33	2.2621	2.2621
34	2.2426	2.2426
35	2.2237	2.2237
36	2.2136	2.2136
37	2.0903	2.0903
38	2.0440	2.0440
39	2.0115	2.0115
40	1.9980	1.9980
41	1.9667	1.9667
42	1.9237	1.9237
43	1.8592	1.8592
44	1.8458	1.8458
45	1.8370	1.8370
46	1.7367	1.7367
47	1.6231	1.6231
48	1.5585	1.5585
49	1.5485	1.5485
50	1.4775	1.4775
51	1.4286	1.4286
52	1.4192	1.4192
53	1.3468	1.3468
54	1.2323	1.2323

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.1875	769	769	100	Pass
1.2143	721	721	100	Pass
1.2410	670	670	100	Pass
1.2678	629	629	100	Pass
1.2945	585	585	100	Pass
1.3213	550	550	100	Pass
1.3480	510	510	100	Pass
1.3748	474	474	100	Pass
1.4015	434	434	100	Pass
1.4283	395	395	100	Pass
1.4550	375	375	100	Pass
1.4818	357	357	100	Pass
1.5085	335	335	100	Pass
1.5353	318	318	100	Pass
1.5620	291	291	100	Pass
1.5888	269	269	100	Pass
1.6155	247	247	100	Pass
1.6423	235	235	100	Pass
1.6690	216	216	100	Pass
1.6958	209	209	100	Pass
1.7225	197	197	100	Pass
1.7493	186	186	100	Pass
1.7760	178	178	100	Pass
1.8028	171	171	100	Pass
1.8295	163	163	100	Pass
1.8563	151	151	100	Pass
1.8830	145	145	100	Pass
1.9098	140	140	100	Pass
1.9365	130	130	100	Pass
1.9633	126	126	100	Pass
1.9901	119	119	100	Pass
2.0168	112	112	100	Pass
2.0436	103	103	100	Pass
2.0703	98	98	100	Pass
2.0971	92	92	100	Pass
2.1238	89	89	100	Pass
2.1506	88	88	100	Pass
2.1773	83	83	100	Pass
2.2041	79	79	100	Pass
2.2308	76	76	100	Pass
2.2576	73	73	100	Pass
2.2843	68	68	100	Pass
2.3111	65	65	100	Pass
2.3378	61	61	100	Pass
2.3646	57	57	100	Pass
2.3913	53	53	100	Pass
2.4181	49	49	100	Pass
2.4448	48	48	100	Pass
2.4716	48	48	100	Pass
2.4983	46	46	100	Pass
2.5251	43	43	100	Pass
2.5518	41	41	100	Pass
2.5786	38	38	100	Pass

2.6053	37	37	100	Pass
2.6321	36	36	100	Pass
2.6588	35	35	100	Pass
2.6856	32	32	100	Pass
2.7123	29	29	100	Pass
2.7391	26	26	100	Pass
2.7658	23	23	100	Pass
2.7926	23	23	100	Pass
2.8193	23	23	100	Pass
2.8461	21	21	100	Pass
2.8728	19	19	100	Pass
2.8996	17	17	100	Pass
2.9263	16	16	100	Pass
2.9531	15	15	100	Pass
2.9798	14	14	100	Pass
3.0066	13	13	100	Pass
3.0334	11	11	100	Pass
3.0601	11	11	100	Pass
3.0869	11	11	100	Pass
3.1136	11	11	100	Pass
3.1404	10	10	100	Pass
3.1671	9	9	100	Pass
3.1939	9	9	100	Pass
3.2206	8	8	100	Pass
3.2474	7	7	100	Pass
3.2741	6	6	100	Pass
3.3009	6	6	100	Pass
3.3276	6	6	100	Pass
3.3544	5	5	100	Pass
3.3811	5	5	100	Pass
3.4079	5	5	100	Pass
3.4346	4	4	100	Pass
3.4614	4	4	100	Pass
3.4881	4	4	100	Pass
3.5149	3	3	100	Pass
3.5416	2	2	100	Pass
3.5684	2	2	100	Pass
3.5951	1	1	100	Pass
3.6219	0	0	100	Pass
3.6486	0	0	0	Pass
3.6754	0	0	0	Pass
3.7021	0	0	0	Pass
3.7289	0	0	0	Pass
3.7556	0	0	0	Pass
3.7824	0	0	0	Pass
3.8091	0	0	0	Pass
3.8359	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #41

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

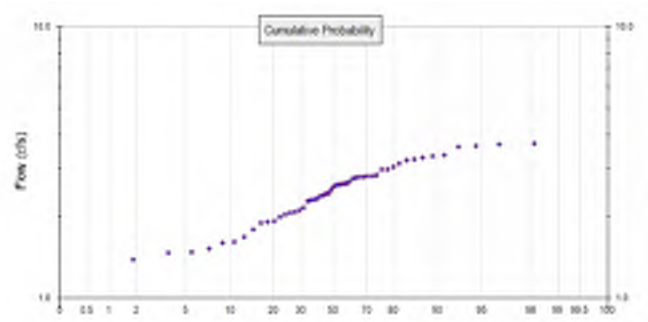
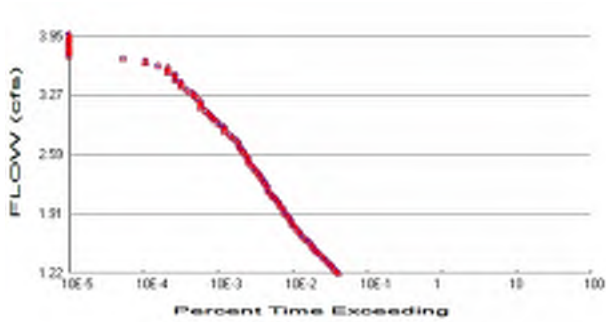
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 42



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #42

Total Pervious Area: 2.27
 Total Impervious Area: 2.09

Mitigated Landuse Totals for POC #42

Total Pervious Area: 2.27
 Total Impervious Area: 2.09

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #42

Return Period	Flow(cfs)
2 year	2.447235
5 year	3.031237
10 year	3.356943
25 year	3.716172
50 year	3.953244
100 year	4.168905

Flow Frequency Return Periods for Mitigated. POC #42

Return Period	Flow(cfs)
2 year	2.447235
5 year	3.031237
10 year	3.356943
25 year	3.716172
50 year	3.953244
100 year	4.168905

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #42

Year	Predeveloped	Mitigated
1956	2.813	2.813
1957	3.299	3.299
1958	2.398	2.398
1959	2.624	2.624
1960	2.777	2.777
1961	1.893	1.893
1962	3.689	3.689
1963	3.329	3.329
1964	2.684	2.684
1965	2.797	2.797
1966	2.824	2.824

1967	1.595	1.595
1968	2.647	2.647
1969	2.595	2.595
1970	2.106	2.106
1971	3.713	3.713
1972	3.212	3.212
1973	2.750	2.750
1974	2.822	2.822
1975	2.369	2.369
1976	2.970	2.970
1977	2.026	2.026
1978	3.642	3.642
1979	2.331	2.331
1980	2.059	2.059
1981	2.634	2.634
1982	3.052	3.052
1983	2.420	2.420
1984	2.311	2.311
1985	1.462	1.462
1986	2.792	2.792
1987	1.902	1.902
1988	2.973	2.973
1989	2.417	2.417
1990	3.352	3.352
1991	1.982	1.982
1992	1.472	1.472
1993	1.606	1.606
1994	2.291	2.291
1995	1.789	1.789
1996	2.280	2.280
1997	2.613	2.613
1998	1.522	1.522
1999	2.073	2.073
2000	1.916	1.916
2001	1.672	1.672
2002	2.153	2.153
2003	3.607	3.607
2004	3.254	3.254
2005	2.494	2.494
2006	2.567	2.567
2007	3.120	3.120
2008	1.388	1.388
2009	1.269	1.269

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #42

Rank	Predeveloped	Mitigated
1	3.7126	3.7126
2	3.6889	3.6889
3	3.6425	3.6425
4	3.6071	3.6071
5	3.3521	3.3521
6	3.3295	3.3295
7	3.2986	3.2986
8	3.2543	3.2543
9	3.2122	3.2122
10	3.1197	3.1197
11	3.0523	3.0523

12	2.9735	2.9735
13	2.9704	2.9704
14	2.8241	2.8241
15	2.8220	2.8220
16	2.8127	2.8127
17	2.7972	2.7972
18	2.7922	2.7922
19	2.7774	2.7774
20	2.7498	2.7498
21	2.6836	2.6836
22	2.6465	2.6465
23	2.6340	2.6340
24	2.6237	2.6237
25	2.6129	2.6129
26	2.5947	2.5947
27	2.5670	2.5670
28	2.4937	2.4937
29	2.4204	2.4204
30	2.4166	2.4166
31	2.3977	2.3977
32	2.3688	2.3688
33	2.3310	2.3310
34	2.3109	2.3109
35	2.2914	2.2914
36	2.2802	2.2802
37	2.1526	2.1526
38	2.1059	2.1059
39	2.0727	2.0727
40	2.0589	2.0589
41	2.0265	2.0265
42	1.9822	1.9822
43	1.9157	1.9157
44	1.9019	1.9019
45	1.8930	1.8930
46	1.7887	1.7887
47	1.6721	1.6721
48	1.6056	1.6056
49	1.5954	1.5954
50	1.5222	1.5222
51	1.4718	1.4718
52	1.4620	1.4620
53	1.3875	1.3875
54	1.2695	1.2695

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.2236	769	769	100	Pass
1.2512	721	721	100	Pass
1.2788	671	671	100	Pass
1.3063	628	628	100	Pass
1.3339	585	585	100	Pass
1.3615	550	550	100	Pass
1.3890	510	510	100	Pass
1.4166	474	474	100	Pass
1.4442	431	431	100	Pass
1.4718	395	395	100	Pass
1.4993	375	375	100	Pass
1.5269	356	356	100	Pass
1.5545	335	335	100	Pass
1.5821	318	318	100	Pass
1.6096	291	291	100	Pass
1.6372	268	268	100	Pass
1.6648	247	247	100	Pass
1.6923	235	235	100	Pass
1.7199	217	217	100	Pass
1.7475	209	209	100	Pass
1.7751	196	196	100	Pass
1.8026	186	186	100	Pass
1.8302	178	178	100	Pass
1.8578	171	171	100	Pass
1.8853	163	163	100	Pass
1.9129	151	151	100	Pass
1.9405	145	145	100	Pass
1.9681	140	140	100	Pass
1.9956	130	130	100	Pass
2.0232	126	126	100	Pass
2.0508	120	120	100	Pass
2.0783	112	112	100	Pass
2.1059	103	103	100	Pass
2.1335	98	98	100	Pass
2.1611	92	92	100	Pass
2.1886	89	89	100	Pass
2.2162	88	88	100	Pass
2.2438	83	83	100	Pass
2.2714	79	79	100	Pass
2.2989	76	76	100	Pass
2.3265	73	73	100	Pass
2.3541	68	68	100	Pass
2.3816	65	65	100	Pass
2.4092	61	61	100	Pass
2.4368	57	57	100	Pass
2.4644	53	53	100	Pass
2.4919	49	49	100	Pass
2.5195	48	48	100	Pass
2.5471	48	48	100	Pass
2.5746	46	46	100	Pass
2.6022	43	43	100	Pass
2.6298	41	41	100	Pass
2.6574	38	38	100	Pass

2.6849	37	37	100	Pass
2.7125	36	36	100	Pass
2.7401	35	35	100	Pass
2.7676	32	32	100	Pass
2.7952	29	29	100	Pass
2.8228	27	27	100	Pass
2.8504	23	23	100	Pass
2.8779	23	23	100	Pass
2.9055	23	23	100	Pass
2.9331	21	21	100	Pass
2.9607	19	19	100	Pass
2.9882	17	17	100	Pass
3.0158	16	16	100	Pass
3.0434	15	15	100	Pass
3.0709	14	14	100	Pass
3.0985	13	13	100	Pass
3.1261	11	11	100	Pass
3.1537	11	11	100	Pass
3.1812	11	11	100	Pass
3.2088	11	11	100	Pass
3.2364	10	10	100	Pass
3.2639	9	9	100	Pass
3.2915	9	9	100	Pass
3.3191	8	8	100	Pass
3.3467	7	7	100	Pass
3.3742	6	6	100	Pass
3.4018	6	6	100	Pass
3.4294	6	6	100	Pass
3.4569	5	5	100	Pass
3.4845	5	5	100	Pass
3.5121	5	5	100	Pass
3.5397	4	4	100	Pass
3.5672	4	4	100	Pass
3.5948	4	4	100	Pass
3.6224	3	3	100	Pass
3.6500	2	2	100	Pass
3.6775	2	2	100	Pass
3.7051	1	1	100	Pass
3.7327	0	0	100	Pass
3.7602	0	0	0	Pass
3.7878	0	0	0	Pass
3.8154	0	0	0	Pass
3.8430	0	0	0	Pass
3.8705	0	0	0	Pass
3.8981	0	0	0	Pass
3.9257	0	0	0	Pass
3.9532	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #42

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

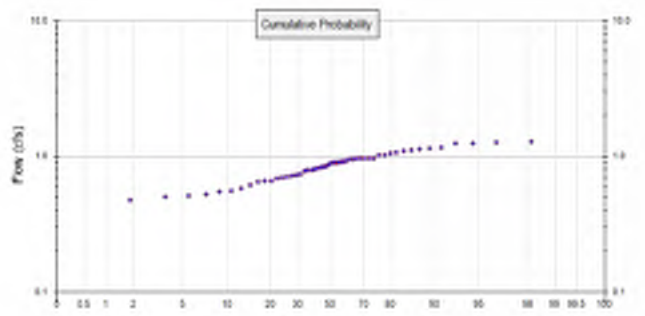
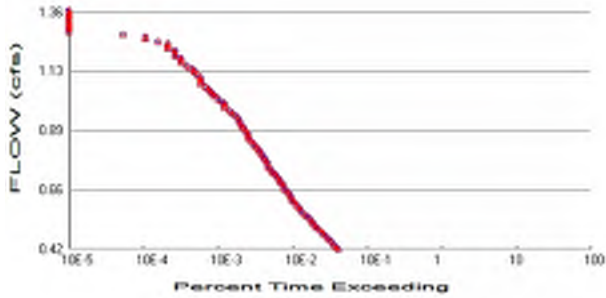
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 43



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #43

Total Pervious Area: 0.78
Total Impervious Area: 0.72

Mitigated Landuse Totals for POC #43

Total Pervious Area: 0.78
Total Impervious Area: 0.72

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #43

Return Period	Flow(cfs)
2 year	0.842255
5 year	1.043147
10 year	1.155179
25 year	1.278737
50 year	1.360276
100 year	1.434448

Flow Frequency Return Periods for Mitigated. POC #43

Return Period	Flow(cfs)
2 year	0.842255
5 year	1.043147
10 year	1.155179
25 year	1.278737
50 year	1.360276
100 year	1.434448

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #43

Year	Predeveloped	Mitigated
1956	0.968	0.968
1957	1.135	1.135
1958	0.825	0.825
1959	0.903	0.903
1960	0.956	0.956
1961	0.651	0.651
1962	1.269	1.269
1963	1.146	1.146
1964	0.924	0.924
1965	0.963	0.963
1966	0.972	0.972

1967	0.549	0.549
1968	0.911	0.911
1969	0.893	0.893
1970	0.725	0.725
1971	1.278	1.278
1972	1.105	1.105
1973	0.946	0.946
1974	0.971	0.971
1975	0.815	0.815
1976	1.022	1.022
1977	0.697	0.697
1978	1.254	1.254
1979	0.802	0.802
1980	0.709	0.709
1981	0.907	0.907
1982	1.051	1.051
1983	0.833	0.833
1984	0.795	0.795
1985	0.503	0.503
1986	0.961	0.961
1987	0.655	0.655
1988	1.023	1.023
1989	0.832	0.832
1990	1.154	1.154
1991	0.682	0.682
1992	0.507	0.507
1993	0.553	0.553
1994	0.789	0.789
1995	0.616	0.616
1996	0.785	0.785
1997	0.899	0.899
1998	0.524	0.524
1999	0.713	0.713
2000	0.659	0.659
2001	0.576	0.576
2002	0.741	0.741
2003	1.241	1.241
2004	1.120	1.120
2005	0.858	0.858
2006	0.883	0.883
2007	1.074	1.074
2008	0.478	0.478
2009	0.437	0.437

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #43

Rank	Predeveloped	Mitigated
1	1.2776	1.2776
2	1.2694	1.2694
3	1.2536	1.2536
4	1.2412	1.2412
5	1.1535	1.1535
6	1.1457	1.1457
7	1.1352	1.1352
8	1.1199	1.1199
9	1.1053	1.1053
10	1.0735	1.0735
11	1.0505	1.0505

12	1.0233	1.0233
13	1.0222	1.0222
14	0.9718	0.9718
15	0.9711	0.9711
16	0.9679	0.9679
17	0.9626	0.9626
18	0.9609	0.9609
19	0.9557	0.9557
20	0.9464	0.9464
21	0.9236	0.9236
22	0.9108	0.9108
23	0.9065	0.9065
24	0.9029	0.9029
25	0.8993	0.8993
26	0.8929	0.8929
27	0.8834	0.8834
28	0.8582	0.8582
29	0.8330	0.8330
30	0.8317	0.8317
31	0.8253	0.8253
32	0.8152	0.8152
33	0.8022	0.8022
34	0.7953	0.7953
35	0.7886	0.7886
36	0.7851	0.7851
37	0.7414	0.7414
38	0.7249	0.7249
39	0.7133	0.7133
40	0.7085	0.7085
41	0.6975	0.6975
42	0.6822	0.6822
43	0.6593	0.6593
44	0.6546	0.6546
45	0.6514	0.6514
46	0.6159	0.6159
47	0.5756	0.5756
48	0.5527	0.5527
49	0.5491	0.5491
50	0.5240	0.5240
51	0.5066	0.5066
52	0.5033	0.5033
53	0.4776	0.4776
54	0.4370	0.4370

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4211	769	769	100	Pass
0.4306	724	724	100	Pass
0.4401	671	671	100	Pass
0.4496	631	631	100	Pass
0.4591	584	584	100	Pass
0.4686	551	551	100	Pass
0.4780	510	510	100	Pass
0.4875	474	474	100	Pass
0.4970	432	432	100	Pass
0.5065	395	395	100	Pass
0.5160	376	376	100	Pass
0.5255	357	357	100	Pass
0.5350	335	335	100	Pass
0.5445	318	318	100	Pass
0.5539	291	291	100	Pass
0.5634	269	269	100	Pass
0.5729	248	248	100	Pass
0.5824	235	235	100	Pass
0.5919	217	217	100	Pass
0.6014	209	209	100	Pass
0.6109	197	197	100	Pass
0.6203	186	186	100	Pass
0.6298	178	178	100	Pass
0.6393	171	171	100	Pass
0.6488	163	163	100	Pass
0.6583	151	151	100	Pass
0.6678	145	145	100	Pass
0.6773	140	140	100	Pass
0.6867	131	131	100	Pass
0.6962	126	126	100	Pass
0.7057	120	120	100	Pass
0.7152	112	112	100	Pass
0.7247	103	103	100	Pass
0.7342	98	98	100	Pass
0.7437	93	93	100	Pass
0.7531	89	89	100	Pass
0.7626	88	88	100	Pass
0.7721	83	83	100	Pass
0.7816	79	79	100	Pass
0.7911	76	76	100	Pass
0.8006	73	73	100	Pass
0.8101	68	68	100	Pass
0.8196	65	65	100	Pass
0.8290	61	61	100	Pass
0.8385	57	57	100	Pass
0.8480	53	53	100	Pass
0.8575	49	49	100	Pass
0.8670	48	48	100	Pass
0.8765	48	48	100	Pass
0.8860	46	46	100	Pass
0.8954	43	43	100	Pass
0.9049	41	41	100	Pass
0.9144	38	38	100	Pass

0.9239	38	38	100	Pass
0.9334	36	36	100	Pass
0.9429	35	35	100	Pass
0.9524	32	32	100	Pass
0.9618	29	29	100	Pass
0.9713	27	27	100	Pass
0.9808	23	23	100	Pass
0.9903	23	23	100	Pass
0.9998	23	23	100	Pass
1.0093	21	21	100	Pass
1.0188	19	19	100	Pass
1.0283	17	17	100	Pass
1.0377	16	16	100	Pass
1.0472	15	15	100	Pass
1.0567	14	14	100	Pass
1.0662	13	13	100	Pass
1.0757	11	11	100	Pass
1.0852	11	11	100	Pass
1.0947	11	11	100	Pass
1.1041	11	11	100	Pass
1.1136	10	10	100	Pass
1.1231	9	9	100	Pass
1.1326	9	9	100	Pass
1.1421	8	8	100	Pass
1.1516	7	7	100	Pass
1.1611	6	6	100	Pass
1.1705	6	6	100	Pass
1.1800	6	6	100	Pass
1.1895	5	5	100	Pass
1.1990	5	5	100	Pass
1.2085	5	5	100	Pass
1.2180	4	4	100	Pass
1.2275	4	4	100	Pass
1.2370	4	4	100	Pass
1.2464	3	3	100	Pass
1.2559	2	2	100	Pass
1.2654	2	2	100	Pass
1.2749	1	1	100	Pass
1.2844	0	0	100	Pass
1.2939	0	0	0	Pass
1.3034	0	0	0	Pass
1.3128	0	0	0	Pass
1.3223	0	0	0	Pass
1.3318	0	0	0	Pass
1.3413	0	0	0	Pass
1.3508	0	0	0	Pass
1.3603	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #43

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

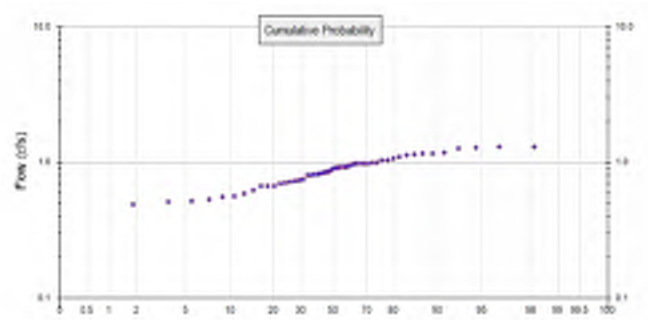
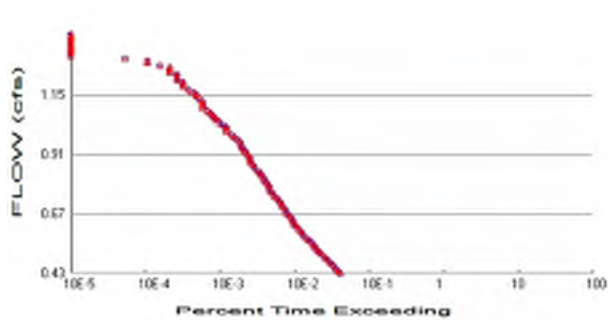
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 44



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #44

Total Pervious Area: 0.8
Total Impervious Area: 0.73

Mitigated Landuse Totals for POC #44

Total Pervious Area: 0.8
Total Impervious Area: 0.73

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #44

Return Period	Flow(cfs)
2 year	0.857656
5 year	1.062683
10 year	1.177057
25 year	1.303224
50 year	1.386498
100 year	1.462257

Flow Frequency Return Periods for Mitigated. POC #44

Return Period	Flow(cfs)
2 year	0.857656
5 year	1.062683
10 year	1.177057
25 year	1.303224
50 year	1.386498
100 year	1.462257

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #44

Year	Predeveloped	Mitigated
1956	0.986	0.986
1957	1.156	1.156
1958	0.840	0.840
1959	0.920	0.920
1960	0.974	0.974
1961	0.664	0.664
1962	1.294	1.294
1963	1.167	1.167
1964	0.940	0.940
1965	0.981	0.981
1966	0.990	0.990

1967	0.559	0.559
1968	0.928	0.928
1969	0.910	0.910
1970	0.738	0.738
1971	1.302	1.302
1972	1.127	1.127
1973	0.964	0.964
1974	0.990	0.990
1975	0.830	0.830
1976	1.041	1.041
1977	0.710	0.710
1978	1.277	1.277
1979	0.817	0.817
1980	0.722	0.722
1981	0.923	0.923
1982	1.070	1.070
1983	0.848	0.848
1984	0.810	0.810
1985	0.512	0.512
1986	0.979	0.979
1987	0.667	0.667
1988	1.042	1.042
1989	0.847	0.847
1990	1.175	1.175
1991	0.695	0.695
1992	0.515	0.515
1993	0.562	0.562
1994	0.803	0.803
1995	0.626	0.626
1996	0.798	0.798
1997	0.916	0.916
1998	0.533	0.533
1999	0.726	0.726
2000	0.671	0.671
2001	0.585	0.585
2002	0.753	0.753
2003	1.265	1.265
2004	1.141	1.141
2005	0.874	0.874
2006	0.900	0.900
2007	1.094	1.094
2008	0.486	0.486
2009	0.444	0.444

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #44

Rank	Predeveloped	Mitigated
1	1.3018	1.3018
2	1.2936	1.2936
3	1.2767	1.2767
4	1.2649	1.2649
5	1.1754	1.1754
6	1.1674	1.1674
7	1.1562	1.1562
8	1.1410	1.1410
9	1.1265	1.1265
10	1.0938	1.0938
11	1.0697	1.0697

12	1.0424	1.0424
13	1.0414	1.0414
14	0.9903	0.9903
15	0.9896	0.9896
16	0.9863	0.9863
17	0.9806	0.9806
18	0.9788	0.9788
19	0.9739	0.9739
20	0.9638	0.9638
21	0.9405	0.9405
22	0.9278	0.9278
23	0.9231	0.9231
24	0.9199	0.9199
25	0.9156	0.9156
26	0.9098	0.9098
27	0.8999	0.8999
28	0.8741	0.8741
29	0.8483	0.8483
30	0.8469	0.8469
31	0.8401	0.8401
32	0.8303	0.8303
33	0.8171	0.8171
34	0.8101	0.8101
35	0.8031	0.8031
36	0.7980	0.7980
37	0.7525	0.7525
38	0.7376	0.7376
39	0.7264	0.7264
40	0.7217	0.7217
41	0.7101	0.7101
42	0.6948	0.6948
43	0.6714	0.6714
44	0.6666	0.6666
45	0.6637	0.6637
46	0.6258	0.6258
47	0.5854	0.5854
48	0.5622	0.5622
49	0.5590	0.5590
50	0.5331	0.5331
51	0.5155	0.5155
52	0.5118	0.5118
53	0.4859	0.4859
54	0.4445	0.4445

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4288	771	771	100	Pass
0.4385	722	722	100	Pass
0.4482	670	670	100	Pass
0.4578	631	631	100	Pass
0.4675	585	585	100	Pass
0.4772	550	550	100	Pass
0.4869	511	511	100	Pass
0.4965	474	474	100	Pass
0.5062	430	430	100	Pass
0.5159	397	397	100	Pass
0.5256	376	376	100	Pass
0.5352	355	355	100	Pass
0.5449	335	335	100	Pass
0.5546	318	318	100	Pass
0.5643	290	290	100	Pass
0.5739	269	269	100	Pass
0.5836	248	248	100	Pass
0.5933	235	235	100	Pass
0.6029	217	217	100	Pass
0.6126	209	209	100	Pass
0.6223	197	197	100	Pass
0.6320	186	186	100	Pass
0.6416	178	178	100	Pass
0.6513	171	171	100	Pass
0.6610	163	163	100	Pass
0.6707	151	151	100	Pass
0.6803	145	145	100	Pass
0.6900	139	139	100	Pass
0.6997	130	130	100	Pass
0.7094	126	126	100	Pass
0.7190	119	119	100	Pass
0.7287	112	112	100	Pass
0.7384	102	102	100	Pass
0.7481	98	98	100	Pass
0.7577	93	93	100	Pass
0.7674	89	89	100	Pass
0.7771	87	87	100	Pass
0.7867	83	83	100	Pass
0.7964	79	79	100	Pass
0.8061	75	75	100	Pass
0.8158	73	73	100	Pass
0.8254	68	68	100	Pass
0.8351	64	64	100	Pass
0.8448	61	61	100	Pass
0.8545	56	56	100	Pass
0.8641	53	53	100	Pass
0.8738	49	49	100	Pass
0.8835	48	48	100	Pass
0.8932	48	48	100	Pass
0.9028	46	46	100	Pass
0.9125	43	43	100	Pass
0.9222	41	41	100	Pass
0.9318	38	38	100	Pass

0.9415	37	37	100	Pass
0.9512	36	36	100	Pass
0.9609	35	35	100	Pass
0.9705	32	32	100	Pass
0.9802	29	29	100	Pass
0.9899	27	27	100	Pass
0.9996	23	23	100	Pass
1.0092	23	23	100	Pass
1.0189	23	23	100	Pass
1.0286	21	21	100	Pass
1.0383	19	19	100	Pass
1.0479	17	17	100	Pass
1.0576	16	16	100	Pass
1.0673	15	15	100	Pass
1.0769	14	14	100	Pass
1.0866	13	13	100	Pass
1.0963	11	11	100	Pass
1.1060	11	11	100	Pass
1.1156	11	11	100	Pass
1.1253	11	11	100	Pass
1.1350	10	10	100	Pass
1.1447	9	9	100	Pass
1.1543	9	9	100	Pass
1.1640	8	8	100	Pass
1.1737	7	7	100	Pass
1.1834	6	6	100	Pass
1.1930	6	6	100	Pass
1.2027	6	6	100	Pass
1.2124	5	5	100	Pass
1.2220	5	5	100	Pass
1.2317	5	5	100	Pass
1.2414	4	4	100	Pass
1.2511	4	4	100	Pass
1.2607	4	4	100	Pass
1.2704	3	3	100	Pass
1.2801	2	2	100	Pass
1.2898	2	2	100	Pass
1.2994	1	1	100	Pass
1.3091	0	0	100	Pass
1.3188	0	0	0	Pass
1.3285	0	0	0	Pass
1.3381	0	0	0	Pass
1.3478	0	0	0	Pass
1.3575	0	0	0	Pass
1.3672	0	0	0	Pass
1.3768	0	0	0	Pass
1.3865	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #44

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

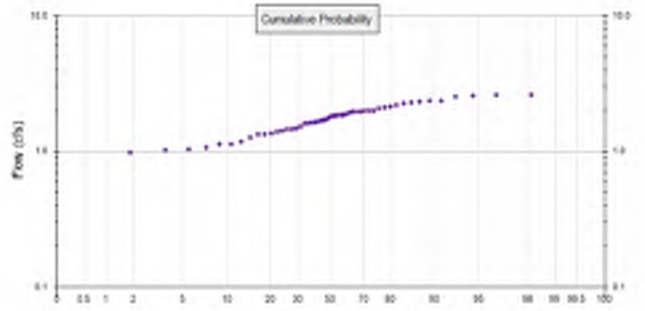
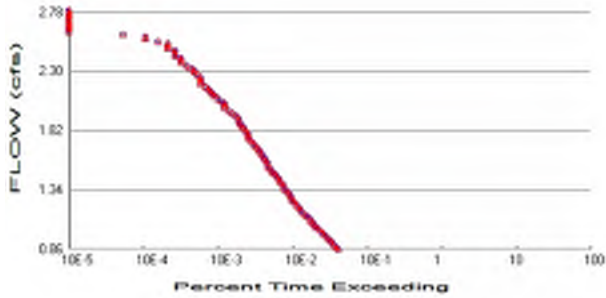
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 45



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #45

Total Pervious Area: 1.6
Total Impervious Area: 1.47

Mitigated Landuse Totals for POC #45

Total Pervious Area: 1.6
Total Impervious Area: 1.47

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #45

Return Period	Flow(cfs)
2 year	1.722634
5 year	2.133889
10 year	2.363265
25 year	2.616259
50 year	2.783226
100 year	2.935117

Flow Frequency Return Periods for Mitigated. POC #45

Return Period	Flow(cfs)
2 year	1.722634
5 year	2.133889
10 year	2.363265
25 year	2.616259
50 year	2.783226
100 year	2.935117

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #45

Year	Predeveloped	Mitigated
1956	1.980	1.980
1957	2.322	2.322
1958	1.688	1.688
1959	1.847	1.847
1960	1.955	1.955
1961	1.333	1.333
1962	2.597	2.597
1963	2.344	2.344
1964	1.889	1.889
1965	1.969	1.969
1966	1.988	1.988

1967	1.123	1.123
1968	1.863	1.863
1969	1.827	1.827
1970	1.482	1.482
1971	2.614	2.614
1972	2.261	2.261
1973	1.936	1.936
1974	1.987	1.987
1975	1.668	1.668
1976	2.091	2.091
1977	1.426	1.426
1978	2.564	2.564
1979	1.641	1.641
1980	1.449	1.449
1981	1.854	1.854
1982	2.149	2.149
1983	1.704	1.704
1984	1.627	1.627
1985	1.029	1.029
1986	1.966	1.966
1987	1.339	1.339
1988	2.093	2.093
1989	1.701	1.701
1990	2.360	2.360
1991	1.395	1.395
1992	1.036	1.036
1993	1.130	1.130
1994	1.613	1.613
1995	1.259	1.259
1996	1.605	1.605
1997	1.839	1.839
1998	1.071	1.071
1999	1.459	1.459
2000	1.348	1.348
2001	1.177	1.177
2002	1.514	1.514
2003	2.539	2.539
2004	2.291	2.291
2005	1.755	1.755
2006	1.807	1.807
2007	2.196	2.196
2008	0.977	0.977
2009	0.893	0.893

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #45

Rank	Predeveloped	Mitigated
1	2.6136	2.6136
2	2.5971	2.5971
3	2.5641	2.5641
4	2.5394	2.5394
5	2.3598	2.3598
6	2.3439	2.3439
7	2.3220	2.3220
8	2.2910	2.2910
9	2.2615	2.2615
10	2.1962	2.1962
11	2.1486	2.1486

12	2.0932	2.0932
13	2.0911	2.0911
14	1.9882	1.9882
15	1.9867	1.9867
16	1.9802	1.9802
17	1.9691	1.9691
18	1.9655	1.9655
19	1.9553	1.9553
20	1.9357	1.9357
21	1.8890	1.8890
22	1.8631	1.8631
23	1.8541	1.8541
24	1.8470	1.8470
25	1.8392	1.8392
26	1.8267	1.8267
27	1.8071	1.8071
28	1.7554	1.7554
29	1.7038	1.7038
30	1.7011	1.7011
31	1.6877	1.6877
32	1.6675	1.6675
33	1.6409	1.6409
34	1.6268	1.6268
35	1.6129	1.6129
36	1.6045	1.6045
37	1.5143	1.5143
38	1.4821	1.4821
39	1.4590	1.4590
40	1.4493	1.4493
41	1.4264	1.4264
42	1.3953	1.3953
43	1.3485	1.3485
44	1.3388	1.3388
45	1.3327	1.3327
46	1.2586	1.2586
47	1.1767	1.1767
48	1.1299	1.1299
49	1.1230	1.1230
50	1.0713	1.0713
51	1.0359	1.0359
52	1.0288	1.0288
53	0.9765	0.9765
54	0.8934	0.8934

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.8613	768	768	100	Pass
0.8807	722	722	100	Pass
0.9001	670	670	100	Pass
0.9196	629	629	100	Pass
0.9390	585	585	100	Pass
0.9584	550	550	100	Pass
0.9778	511	511	100	Pass
0.9972	473	473	100	Pass
1.0166	432	432	100	Pass
1.0360	394	394	100	Pass
1.0554	375	375	100	Pass
1.0749	356	356	100	Pass
1.0943	333	333	100	Pass
1.1137	318	318	100	Pass
1.1331	291	291	100	Pass
1.1525	268	268	100	Pass
1.1719	248	248	100	Pass
1.1913	235	235	100	Pass
1.2108	217	217	100	Pass
1.2302	209	209	100	Pass
1.2496	197	197	100	Pass
1.2690	186	186	100	Pass
1.2884	178	178	100	Pass
1.3078	171	171	100	Pass
1.3272	163	163	100	Pass
1.3466	151	151	100	Pass
1.3661	145	145	100	Pass
1.3855	140	140	100	Pass
1.4049	130	130	100	Pass
1.4243	126	126	100	Pass
1.4437	120	120	100	Pass
1.4631	112	112	100	Pass
1.4825	103	103	100	Pass
1.5020	98	98	100	Pass
1.5214	93	93	100	Pass
1.5408	89	89	100	Pass
1.5602	88	88	100	Pass
1.5796	83	83	100	Pass
1.5990	79	79	100	Pass
1.6184	76	76	100	Pass
1.6378	73	73	100	Pass
1.6573	68	68	100	Pass
1.6767	65	65	100	Pass
1.6961	61	61	100	Pass
1.7155	57	57	100	Pass
1.7349	53	53	100	Pass
1.7543	49	49	100	Pass
1.7737	48	48	100	Pass
1.7932	48	48	100	Pass
1.8126	46	46	100	Pass
1.8320	43	43	100	Pass
1.8514	41	41	100	Pass
1.8708	38	38	100	Pass

1.8902	37	37	100	Pass
1.9096	36	36	100	Pass
1.9290	35	35	100	Pass
1.9485	32	32	100	Pass
1.9679	29	29	100	Pass
1.9873	26	26	100	Pass
2.0067	23	23	100	Pass
2.0261	23	23	100	Pass
2.0455	23	23	100	Pass
2.0649	21	21	100	Pass
2.0844	19	19	100	Pass
2.1038	17	17	100	Pass
2.1232	16	16	100	Pass
2.1426	15	15	100	Pass
2.1620	14	14	100	Pass
2.1814	13	13	100	Pass
2.2008	11	11	100	Pass
2.2202	11	11	100	Pass
2.2397	11	11	100	Pass
2.2591	11	11	100	Pass
2.2785	10	10	100	Pass
2.2979	9	9	100	Pass
2.3173	9	9	100	Pass
2.3367	8	8	100	Pass
2.3561	7	7	100	Pass
2.3755	6	6	100	Pass
2.3950	6	6	100	Pass
2.4144	6	6	100	Pass
2.4338	5	5	100	Pass
2.4532	5	5	100	Pass
2.4726	5	5	100	Pass
2.4920	4	4	100	Pass
2.5114	4	4	100	Pass
2.5309	4	4	100	Pass
2.5503	3	3	100	Pass
2.5697	2	2	100	Pass
2.5891	2	2	100	Pass
2.6085	1	1	100	Pass
2.6279	0	0	100	Pass
2.6473	0	0	0	Pass
2.6667	0	0	0	Pass
2.6862	0	0	0	Pass
2.7056	0	0	0	Pass
2.7250	0	0	0	Pass
2.7444	0	0	0	Pass
2.7638	0	0	0	Pass
2.7832	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #45

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

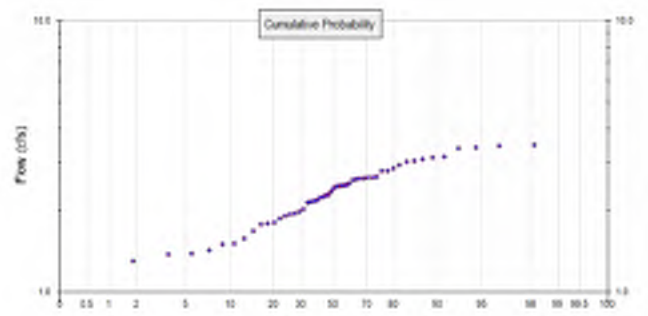
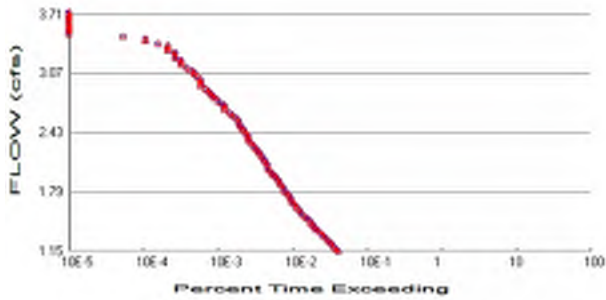
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 46



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #46

Total Pervious Area: 2.13
Total Impervious Area: 1.96

Mitigated Landuse Totals for POC #46

Total Pervious Area: 2.13
Total Impervious Area: 1.96

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #46

Return Period	Flow(cfs)
2 year	2.295498
5 year	2.843349
10 year	3.148898
25 year	3.485899
50 year	3.708303
100 year	3.910622

Flow Frequency Return Periods for Mitigated. POC #46

Return Period	Flow(cfs)
2 year	2.295498
5 year	2.843349
10 year	3.148898
25 year	3.485899
50 year	3.708303
100 year	3.910622

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #46

Year	Predeveloped	Mitigated
1956	2.638	2.638
1957	3.094	3.094
1958	2.249	2.249
1959	2.461	2.461
1960	2.605	2.605
1961	1.776	1.776
1962	3.460	3.460
1963	3.123	3.123
1964	2.517	2.517
1965	2.624	2.624
1966	2.649	2.649

1967	1.496	1.496
1968	2.483	2.483
1969	2.434	2.434
1970	1.975	1.975
1971	3.482	3.482
1972	3.013	3.013
1973	2.579	2.579
1974	2.647	2.647
1975	2.222	2.222
1976	2.786	2.786
1977	1.901	1.901
1978	3.417	3.417
1979	2.186	2.186
1980	1.931	1.931
1981	2.471	2.471
1982	2.863	2.863
1983	2.270	2.270
1984	2.168	2.168
1985	1.371	1.371
1986	2.619	2.619
1987	1.784	1.784
1988	2.789	2.789
1989	2.267	2.267
1990	3.144	3.144
1991	1.859	1.859
1992	1.381	1.381
1993	1.506	1.506
1994	2.149	2.149
1995	1.678	1.678
1996	2.139	2.139
1997	2.451	2.451
1998	1.428	1.428
1999	1.944	1.944
2000	1.797	1.797
2001	1.568	1.568
2002	2.019	2.019
2003	3.384	3.384
2004	3.053	3.053
2005	2.339	2.339
2006	2.408	2.408
2007	2.926	2.926
2008	1.301	1.301
2009	1.191	1.191

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #46

Rank	Predeveloped	Mitigated
1	3.4825	3.4825
2	3.4603	3.4603
3	3.4167	3.4167
4	3.3836	3.3836
5	3.1443	3.1443
6	3.1231	3.1231
7	3.0941	3.0941
8	3.0526	3.0526
9	3.0132	3.0132
10	2.9263	2.9263
11	2.8631	2.8631

12	2.7892	2.7892
13	2.7863	2.7863
14	2.6491	2.6491
15	2.6471	2.6471
16	2.6384	2.6384
17	2.6238	2.6238
18	2.6191	2.6191
19	2.6053	2.6053
20	2.5793	2.5793
21	2.5172	2.5172
22	2.4825	2.4825
23	2.4707	2.4707
24	2.4611	2.4611
25	2.4509	2.4509
26	2.4339	2.4339
27	2.4079	2.4079
28	2.3391	2.3391
29	2.2704	2.2704
30	2.2667	2.2667
31	2.2490	2.2490
32	2.2220	2.2220
33	2.1865	2.1865
34	2.1677	2.1677
35	2.1493	2.1493
36	2.1386	2.1386
37	2.0188	2.0188
38	1.9752	1.9752
39	1.9442	1.9442
40	1.9312	1.9312
41	1.9008	1.9008
42	1.8593	1.8593
43	1.7970	1.7970
44	1.7840	1.7840
45	1.7757	1.7757
46	1.6776	1.6776
47	1.5683	1.5683
48	1.5059	1.5059
49	1.4965	1.4965
50	1.4278	1.4278
51	1.3805	1.3805
52	1.3712	1.3712
53	1.3014	1.3014
54	1.1907	1.1907

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.1477	769	769	100	Pass
1.1736	722	722	100	Pass
1.1995	671	671	100	Pass
1.2253	628	628	100	Pass
1.2512	584	584	100	Pass
1.2771	550	550	100	Pass
1.3029	511	511	100	Pass
1.3288	474	474	100	Pass
1.3547	432	432	100	Pass
1.3805	395	395	100	Pass
1.4064	375	375	100	Pass
1.4323	356	356	100	Pass
1.4581	333	333	100	Pass
1.4840	318	318	100	Pass
1.5098	291	291	100	Pass
1.5357	269	269	100	Pass
1.5616	247	247	100	Pass
1.5874	235	235	100	Pass
1.6133	216	216	100	Pass
1.6392	209	209	100	Pass
1.6650	196	196	100	Pass
1.6909	186	186	100	Pass
1.7168	178	178	100	Pass
1.7426	171	171	100	Pass
1.7685	163	163	100	Pass
1.7944	151	151	100	Pass
1.8202	145	145	100	Pass
1.8461	139	139	100	Pass
1.8719	130	130	100	Pass
1.8978	126	126	100	Pass
1.9237	120	120	100	Pass
1.9495	112	112	100	Pass
1.9754	103	103	100	Pass
2.0013	98	98	100	Pass
2.0271	92	92	100	Pass
2.0530	89	89	100	Pass
2.0789	88	88	100	Pass
2.1047	83	83	100	Pass
2.1306	79	79	100	Pass
2.1565	76	76	100	Pass
2.1823	73	73	100	Pass
2.2082	68	68	100	Pass
2.2340	64	64	100	Pass
2.2599	61	61	100	Pass
2.2858	57	57	100	Pass
2.3116	53	53	100	Pass
2.3375	49	49	100	Pass
2.3634	48	48	100	Pass
2.3892	48	48	100	Pass
2.4151	46	46	100	Pass
2.4410	43	43	100	Pass
2.4668	41	41	100	Pass
2.4927	38	38	100	Pass

2.5186	37	37	100	Pass
2.5444	36	36	100	Pass
2.5703	35	35	100	Pass
2.5961	32	32	100	Pass
2.6220	29	29	100	Pass
2.6479	27	27	100	Pass
2.6737	23	23	100	Pass
2.6996	23	23	100	Pass
2.7255	23	23	100	Pass
2.7513	21	21	100	Pass
2.7772	19	19	100	Pass
2.8031	17	17	100	Pass
2.8289	16	16	100	Pass
2.8548	15	15	100	Pass
2.8806	14	14	100	Pass
2.9065	13	13	100	Pass
2.9324	11	11	100	Pass
2.9582	11	11	100	Pass
2.9841	11	11	100	Pass
3.0100	11	11	100	Pass
3.0358	10	10	100	Pass
3.0617	9	9	100	Pass
3.0876	9	9	100	Pass
3.1134	8	8	100	Pass
3.1393	7	7	100	Pass
3.1652	6	6	100	Pass
3.1910	6	6	100	Pass
3.2169	6	6	100	Pass
3.2427	5	5	100	Pass
3.2686	5	5	100	Pass
3.2945	5	5	100	Pass
3.3203	4	4	100	Pass
3.3462	4	4	100	Pass
3.3721	4	4	100	Pass
3.3979	3	3	100	Pass
3.4238	2	2	100	Pass
3.4497	2	2	100	Pass
3.4755	1	1	100	Pass
3.5014	0	0	100	Pass
3.5273	0	0	0	Pass
3.5531	0	0	0	Pass
3.5790	0	0	0	Pass
3.6048	0	0	0	Pass
3.6307	0	0	0	Pass
3.6566	0	0	0	Pass
3.6824	0	0	0	Pass
3.7083	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #46

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

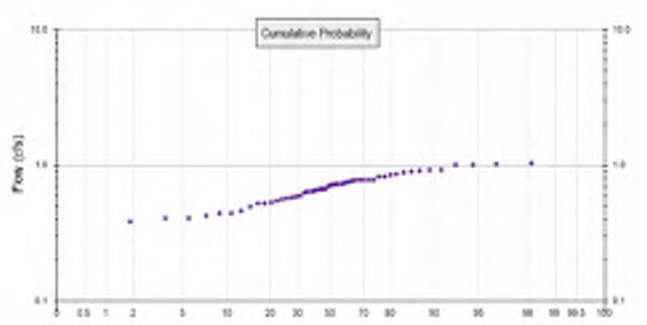
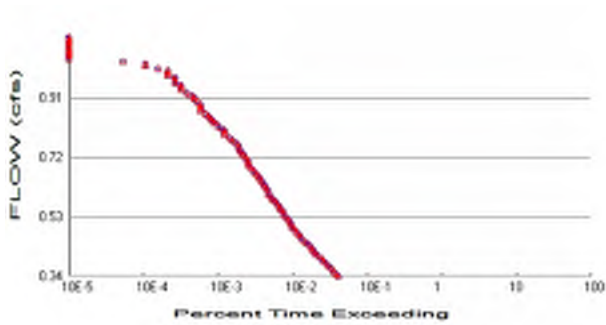
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 47



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #47

Total Pervious Area: 0.63
 Total Impervious Area: 0.58

Mitigated Landuse Totals for POC #47

Total Pervious Area: 0.63
 Total Impervious Area: 0.58

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #47

Return Period	Flow(cfs)
2 year	0.679156
5 year	0.841231
10 year	0.931622
25 year	1.031317
50 year	1.09711
100 year	1.156962

Flow Frequency Return Periods for Mitigated. POC #47

Return Period	Flow(cfs)
2 year	0.679156
5 year	0.841231
10 year	0.931622
25 year	1.031317
50 year	1.09711
100 year	1.156962

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #47

Year	Predeveloped	Mitigated
1956	0.781	0.781
1957	0.915	0.915
1958	0.665	0.665
1959	0.728	0.728
1960	0.771	0.771
1961	0.525	0.525
1962	1.024	1.024
1963	0.924	0.924
1964	0.745	0.745
1965	0.776	0.776
1966	0.784	0.784

1967	0.443	0.443
1968	0.734	0.734
1969	0.720	0.720
1970	0.584	0.584
1971	1.030	1.030
1972	0.891	0.891
1973	0.763	0.763
1974	0.783	0.783
1975	0.657	0.657
1976	0.824	0.824
1977	0.562	0.562
1978	1.011	1.011
1979	0.647	0.647
1980	0.571	0.571
1981	0.731	0.731
1982	0.847	0.847
1983	0.672	0.672
1984	0.641	0.641
1985	0.406	0.406
1986	0.775	0.775
1987	0.528	0.528
1988	0.825	0.825
1989	0.671	0.671
1990	0.930	0.930
1991	0.550	0.550
1992	0.408	0.408
1993	0.446	0.446
1994	0.636	0.636
1995	0.496	0.496
1996	0.633	0.633
1997	0.725	0.725
1998	0.422	0.422
1999	0.575	0.575
2000	0.532	0.532
2001	0.464	0.464
2002	0.597	0.597
2003	1.001	1.001
2004	0.903	0.903
2005	0.692	0.692
2006	0.712	0.712
2007	0.866	0.866
2008	0.385	0.385
2009	0.352	0.352

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #47

Rank	Predeveloped	Mitigated
1	1.0303	1.0303
2	1.0238	1.0238
3	1.0109	1.0109
4	1.0010	1.0010
5	0.9303	0.9303
6	0.9240	0.9240
7	0.9154	0.9154
8	0.9031	0.9031
9	0.8915	0.8915
10	0.8658	0.8658
11	0.8471	0.8471

12	0.8252	0.8252
13	0.8244	0.8244
14	0.7837	0.7837
15	0.7832	0.7832
16	0.7806	0.7806
17	0.7763	0.7763
18	0.7749	0.7749
19	0.7708	0.7708
20	0.7631	0.7631
21	0.7448	0.7448
22	0.7345	0.7345
23	0.7310	0.7310
24	0.7281	0.7281
25	0.7251	0.7251
26	0.7201	0.7201
27	0.7124	0.7124
28	0.6921	0.6921
29	0.6717	0.6717
30	0.6706	0.6706
31	0.6654	0.6654
32	0.6574	0.6574
33	0.6469	0.6469
34	0.6413	0.6413
35	0.6359	0.6359
36	0.6328	0.6328
37	0.5974	0.5974
38	0.5844	0.5844
39	0.5752	0.5752
40	0.5714	0.5714
41	0.5624	0.5624
42	0.5501	0.5501
43	0.5317	0.5317
44	0.5278	0.5278
45	0.5254	0.5254
46	0.4964	0.4964
47	0.4640	0.4640
48	0.4456	0.4456
49	0.4428	0.4428
50	0.4224	0.4224
51	0.4085	0.4085
52	0.4057	0.4057
53	0.3851	0.3851
54	0.3523	0.3523

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3396	772	772	100	Pass
0.3472	722	722	100	Pass
0.3549	676	676	100	Pass
0.3625	631	631	100	Pass
0.3702	585	585	100	Pass
0.3778	551	551	100	Pass
0.3855	512	512	100	Pass
0.3931	474	474	100	Pass
0.4008	438	438	100	Pass
0.4084	395	395	100	Pass
0.4161	375	375	100	Pass
0.4237	357	357	100	Pass
0.4314	335	335	100	Pass
0.4391	318	318	100	Pass
0.4467	291	291	100	Pass
0.4544	269	269	100	Pass
0.4620	247	247	100	Pass
0.4697	236	236	100	Pass
0.4773	217	217	100	Pass
0.4850	209	209	100	Pass
0.4926	197	197	100	Pass
0.5003	186	186	100	Pass
0.5079	178	178	100	Pass
0.5156	171	171	100	Pass
0.5232	163	163	100	Pass
0.5309	152	152	100	Pass
0.5385	145	145	100	Pass
0.5462	140	140	100	Pass
0.5538	131	131	100	Pass
0.5615	126	126	100	Pass
0.5691	120	120	100	Pass
0.5768	112	112	100	Pass
0.5844	103	103	100	Pass
0.5921	98	98	100	Pass
0.5997	93	93	100	Pass
0.6074	90	90	100	Pass
0.6150	88	88	100	Pass
0.6227	83	83	100	Pass
0.6303	79	79	100	Pass
0.6380	76	76	100	Pass
0.6457	73	73	100	Pass
0.6533	68	68	100	Pass
0.6610	65	65	100	Pass
0.6686	61	61	100	Pass
0.6763	57	57	100	Pass
0.6839	53	53	100	Pass
0.6916	49	49	100	Pass
0.6992	48	48	100	Pass
0.7069	48	48	100	Pass
0.7145	46	46	100	Pass
0.7222	43	43	100	Pass
0.7298	41	41	100	Pass
0.7375	38	38	100	Pass

0.7451	37	37	100	Pass
0.7528	36	36	100	Pass
0.7604	35	35	100	Pass
0.7681	32	32	100	Pass
0.7757	29	29	100	Pass
0.7834	27	27	100	Pass
0.7910	23	23	100	Pass
0.7987	23	23	100	Pass
0.8063	23	23	100	Pass
0.8140	21	21	100	Pass
0.8216	19	19	100	Pass
0.8293	17	17	100	Pass
0.8369	16	16	100	Pass
0.8446	15	15	100	Pass
0.8523	14	14	100	Pass
0.8599	13	13	100	Pass
0.8676	11	11	100	Pass
0.8752	11	11	100	Pass
0.8829	11	11	100	Pass
0.8905	11	11	100	Pass
0.8982	10	10	100	Pass
0.9058	9	9	100	Pass
0.9135	9	9	100	Pass
0.9211	8	8	100	Pass
0.9288	7	7	100	Pass
0.9364	6	6	100	Pass
0.9441	6	6	100	Pass
0.9517	6	6	100	Pass
0.9594	5	5	100	Pass
0.9670	5	5	100	Pass
0.9747	5	5	100	Pass
0.9823	4	4	100	Pass
0.9900	4	4	100	Pass
0.9976	4	4	100	Pass
1.0053	3	3	100	Pass
1.0129	2	2	100	Pass
1.0206	2	2	100	Pass
1.0282	1	1	100	Pass
1.0359	0	0	100	Pass
1.0435	0	0	0	Pass
1.0512	0	0	0	Pass
1.0589	0	0	0	Pass
1.0665	0	0	0	Pass
1.0742	0	0	0	Pass
1.0818	0	0	0	Pass
1.0895	0	0	0	Pass
1.0971	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #47

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

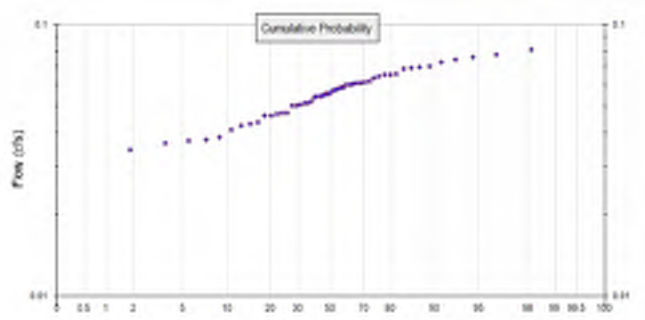
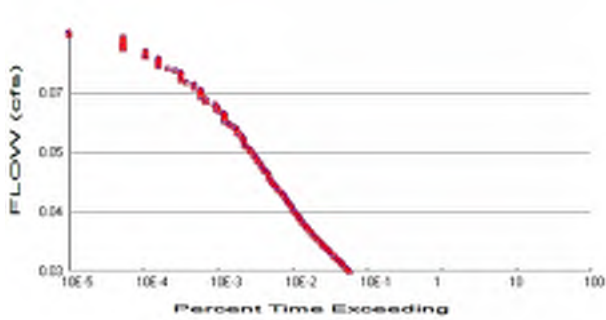
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 48



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #48

Total Pervious Area: 0.01
Total Impervious Area: 0.07

Mitigated Landuse Totals for POC #48

Total Pervious Area: 0.01
Total Impervious Area: 0.07

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #48

Return Period	Flow(cfs)
2 year	0.055368
5 year	0.065676
10 year	0.071248
25 year	0.077267
50 year	0.081175
100 year	0.084689

Flow Frequency Return Periods for Mitigated. POC #48

Return Period	Flow(cfs)
2 year	0.055368
5 year	0.065676
10 year	0.071248
25 year	0.077267
50 year	0.081175
100 year	0.084689

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #48

Year	Predeveloped	Mitigated
1956	0.058	0.058
1957	0.073	0.073
1958	0.056	0.056
1959	0.055	0.055
1960	0.058	0.058
1961	0.047	0.047
1962	0.076	0.076
1963	0.070	0.070
1964	0.061	0.061
1965	0.060	0.060
1966	0.059	0.059

1967	0.038	0.038
1968	0.057	0.057
1969	0.054	0.054
1970	0.051	0.051
1971	0.078	0.078
1972	0.066	0.066
1973	0.062	0.062
1974	0.059	0.059
1975	0.052	0.052
1976	0.064	0.064
1977	0.046	0.046
1978	0.081	0.081
1979	0.051	0.051
1980	0.047	0.047
1981	0.060	0.060
1982	0.069	0.069
1983	0.055	0.055
1984	0.050	0.050
1985	0.039	0.039
1986	0.061	0.061
1987	0.042	0.042
1988	0.064	0.064
1989	0.054	0.054
1990	0.070	0.070
1991	0.046	0.046
1992	0.036	0.036
1993	0.041	0.041
1994	0.051	0.051
1995	0.050	0.050
1996	0.061	0.061
1997	0.060	0.060
1998	0.037	0.037
1999	0.047	0.047
2000	0.044	0.044
2001	0.043	0.043
2002	0.066	0.066
2003	0.074	0.074
2004	0.069	0.069
2005	0.055	0.055
2006	0.056	0.056
2007	0.066	0.066
2008	0.035	0.035
2009	0.033	0.033

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #48

Rank	Predeveloped	Mitigated
1	0.0809	0.0809
2	0.0777	0.0777
3	0.0760	0.0760
4	0.0741	0.0741
5	0.0727	0.0727
6	0.0702	0.0702
7	0.0699	0.0699
8	0.0691	0.0691
9	0.0690	0.0690
10	0.0660	0.0660
11	0.0656	0.0656

12	0.0656	0.0656
13	0.0644	0.0644
14	0.0637	0.0637
15	0.0617	0.0617
16	0.0614	0.0614
17	0.0609	0.0609
18	0.0608	0.0608
19	0.0604	0.0604
20	0.0599	0.0599
21	0.0599	0.0599
22	0.0589	0.0589
23	0.0587	0.0587
24	0.0581	0.0581
25	0.0576	0.0576
26	0.0570	0.0570
27	0.0562	0.0562
28	0.0557	0.0557
29	0.0554	0.0554
30	0.0547	0.0547
31	0.0545	0.0545
32	0.0544	0.0544
33	0.0540	0.0540
34	0.0521	0.0521
35	0.0515	0.0515
36	0.0514	0.0514
37	0.0507	0.0507
38	0.0505	0.0505
39	0.0502	0.0502
40	0.0474	0.0474
41	0.0473	0.0473
42	0.0468	0.0468
43	0.0463	0.0463
44	0.0463	0.0463
45	0.0435	0.0435
46	0.0430	0.0430
47	0.0425	0.0425
48	0.0410	0.0410
49	0.0386	0.0386
50	0.0377	0.0377
51	0.0374	0.0374
52	0.0365	0.0365
53	0.0346	0.0346
54	0.0328	0.0328

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0277	1095	1095	100	Pass
0.0282	1022	1022	100	Pass
0.0288	950	950	100	Pass
0.0293	878	878	100	Pass
0.0298	827	827	100	Pass
0.0304	762	762	100	Pass
0.0309	709	709	100	Pass
0.0315	657	657	100	Pass
0.0320	604	604	100	Pass
0.0325	563	563	100	Pass
0.0331	524	524	100	Pass
0.0336	489	489	100	Pass
0.0342	459	459	100	Pass
0.0347	420	420	100	Pass
0.0352	394	394	100	Pass
0.0358	367	367	100	Pass
0.0363	343	343	100	Pass
0.0369	318	318	100	Pass
0.0374	299	299	100	Pass
0.0379	283	283	100	Pass
0.0385	265	265	100	Pass
0.0390	253	253	100	Pass
0.0396	237	237	100	Pass
0.0401	227	227	100	Pass
0.0407	215	215	100	Pass
0.0412	201	201	100	Pass
0.0417	192	192	100	Pass
0.0423	182	182	100	Pass
0.0428	174	174	100	Pass
0.0434	165	165	100	Pass
0.0439	158	158	100	Pass
0.0444	149	149	100	Pass
0.0450	142	142	100	Pass
0.0455	136	136	100	Pass
0.0461	125	125	100	Pass
0.0466	115	115	100	Pass
0.0471	108	108	100	Pass
0.0477	100	100	100	Pass
0.0482	98	98	100	Pass
0.0488	92	92	100	Pass
0.0493	91	91	100	Pass
0.0498	89	89	100	Pass
0.0504	81	81	100	Pass
0.0509	77	77	100	Pass
0.0515	73	73	100	Pass
0.0520	70	70	100	Pass
0.0525	64	64	100	Pass
0.0531	63	63	100	Pass
0.0536	60	60	100	Pass
0.0542	57	57	100	Pass
0.0547	52	52	100	Pass
0.0552	51	51	100	Pass
0.0558	46	46	100	Pass

0.0563	43	43	100	Pass
0.0569	43	43	100	Pass
0.0574	42	42	100	Pass
0.0579	40	40	100	Pass
0.0585	38	38	100	Pass
0.0590	34	34	100	Pass
0.0596	34	34	100	Pass
0.0601	32	32	100	Pass
0.0606	28	28	100	Pass
0.0612	26	26	100	Pass
0.0617	23	23	100	Pass
0.0623	23	23	100	Pass
0.0628	23	23	100	Pass
0.0633	23	23	100	Pass
0.0639	20	20	100	Pass
0.0644	18	18	100	Pass
0.0650	18	18	100	Pass
0.0655	17	17	100	Pass
0.0660	13	13	100	Pass
0.0666	13	13	100	Pass
0.0671	11	11	100	Pass
0.0677	11	11	100	Pass
0.0682	11	11	100	Pass
0.0687	11	11	100	Pass
0.0693	9	9	100	Pass
0.0698	9	9	100	Pass
0.0704	7	7	100	Pass
0.0709	6	6	100	Pass
0.0714	6	6	100	Pass
0.0720	6	6	100	Pass
0.0725	6	6	100	Pass
0.0731	5	5	100	Pass
0.0736	4	4	100	Pass
0.0742	3	3	100	Pass
0.0747	3	3	100	Pass
0.0752	3	3	100	Pass
0.0758	3	3	100	Pass
0.0763	2	2	100	Pass
0.0769	2	2	100	Pass
0.0774	2	2	100	Pass
0.0779	1	1	100	Pass
0.0785	1	1	100	Pass
0.0790	1	1	100	Pass
0.0796	1	1	100	Pass
0.0801	1	1	100	Pass
0.0806	1	1	100	Pass
0.0812	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #48

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

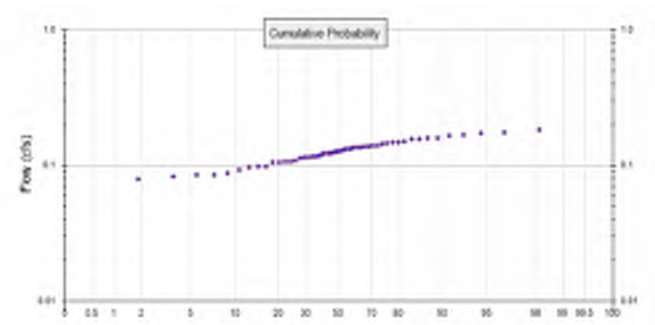
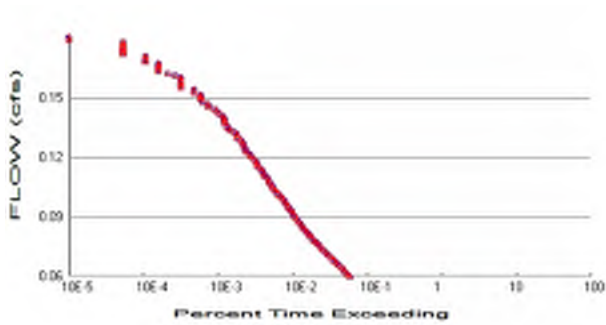
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 49



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #49

Total Pervious Area: 0.02
 Total Impervious Area: 0.16

Mitigated Landuse Totals for POC #49

Total Pervious Area: 0.02
 Total Impervious Area: 0.16

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #49

Return Period	Flow(cfs)
2 year	0.125405
5 year	0.1486
10 year	0.161126
25 year	0.174653
50 year	0.183432
100 year	0.191323

Flow Frequency Return Periods for Mitigated. POC #49

Return Period	Flow(cfs)
2 year	0.125405
5 year	0.1486
10 year	0.161126
25 year	0.174653
50 year	0.183432
100 year	0.191323

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #49

Year	Predeveloped	Mitigated
1956	0.131	0.131
1957	0.164	0.164
1958	0.127	0.127
1959	0.125	0.125
1960	0.130	0.130
1961	0.107	0.107
1962	0.172	0.172
1963	0.158	0.158
1964	0.138	0.138
1965	0.137	0.137
1966	0.133	0.133

1967	0.086	0.086
1968	0.129	0.129
1969	0.122	0.122
1970	0.117	0.117
1971	0.176	0.176
1972	0.148	0.148
1973	0.140	0.140
1974	0.133	0.133
1975	0.118	0.118
1976	0.144	0.144
1977	0.105	0.105
1978	0.183	0.183
1979	0.115	0.115
1980	0.106	0.106
1981	0.136	0.136
1982	0.157	0.157
1983	0.123	0.123
1984	0.114	0.114
1985	0.088	0.088
1986	0.138	0.138
1987	0.096	0.096
1988	0.146	0.146
1989	0.123	0.123
1990	0.159	0.159
1991	0.106	0.106
1992	0.083	0.083
1993	0.093	0.093
1994	0.116	0.116
1995	0.115	0.115
1996	0.140	0.140
1997	0.136	0.136
1998	0.085	0.085
1999	0.107	0.107
2000	0.099	0.099
2001	0.098	0.098
2002	0.151	0.151
2003	0.167	0.167
2004	0.156	0.156
2005	0.124	0.124
2006	0.126	0.126
2007	0.148	0.148
2008	0.079	0.079
2009	0.075	0.075

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #49

Rank	Predeveloped	Mitigated
1	0.1832	0.1832
2	0.1756	0.1756
3	0.1718	0.1718
4	0.1673	0.1673
5	0.1644	0.1644
6	0.1587	0.1587
7	0.1580	0.1580
8	0.1565	0.1565
9	0.1560	0.1560
10	0.1505	0.1505
11	0.1483	0.1483

12	0.1481	0.1481
13	0.1456	0.1456
14	0.1441	0.1441
15	0.1397	0.1397
16	0.1397	0.1397
17	0.1378	0.1378
18	0.1377	0.1377
19	0.1367	0.1367
20	0.1358	0.1358
21	0.1358	0.1358
22	0.1332	0.1332
23	0.1325	0.1325
24	0.1312	0.1312
25	0.1301	0.1301
26	0.1290	0.1290
27	0.1274	0.1274
28	0.1260	0.1260
29	0.1253	0.1253
30	0.1238	0.1238
31	0.1234	0.1234
32	0.1233	0.1233
33	0.1220	0.1220
34	0.1179	0.1179
35	0.1169	0.1169
36	0.1164	0.1164
37	0.1150	0.1150
38	0.1148	0.1148
39	0.1135	0.1135
40	0.1075	0.1075
41	0.1074	0.1074
42	0.1061	0.1061
43	0.1055	0.1055
44	0.1049	0.1049
45	0.0986	0.0986
46	0.0977	0.0977
47	0.0962	0.0962
48	0.0932	0.0932
49	0.0877	0.0877
50	0.0855	0.0855
51	0.0849	0.0849
52	0.0828	0.0828
53	0.0787	0.0787
54	0.0745	0.0745

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0627	1103	1103	100	Pass
0.0639	1033	1033	100	Pass
0.0651	963	963	100	Pass
0.0664	893	893	100	Pass
0.0676	833	833	100	Pass
0.0688	773	773	100	Pass
0.0700	719	719	100	Pass
0.0712	662	662	100	Pass
0.0725	612	612	100	Pass
0.0737	567	567	100	Pass
0.0749	532	532	100	Pass
0.0761	495	495	100	Pass
0.0773	465	465	100	Pass
0.0786	429	429	100	Pass
0.0798	399	399	100	Pass
0.0810	370	370	100	Pass
0.0822	345	345	100	Pass
0.0834	322	322	100	Pass
0.0847	302	302	100	Pass
0.0859	287	287	100	Pass
0.0871	268	268	100	Pass
0.0883	256	256	100	Pass
0.0895	240	240	100	Pass
0.0908	226	226	100	Pass
0.0920	217	217	100	Pass
0.0932	204	204	100	Pass
0.0944	197	197	100	Pass
0.0956	185	185	100	Pass
0.0968	174	174	100	Pass
0.0981	167	167	100	Pass
0.0993	159	159	100	Pass
0.1005	150	150	100	Pass
0.1017	144	144	100	Pass
0.1029	136	136	100	Pass
0.1042	127	127	100	Pass
0.1054	117	117	100	Pass
0.1066	109	109	100	Pass
0.1078	102	102	100	Pass
0.1090	100	100	100	Pass
0.1103	94	94	100	Pass
0.1115	92	92	100	Pass
0.1127	89	89	100	Pass
0.1139	81	81	100	Pass
0.1151	77	77	100	Pass
0.1164	75	75	100	Pass
0.1176	70	70	100	Pass
0.1188	64	64	100	Pass
0.1200	63	63	100	Pass
0.1212	62	62	100	Pass
0.1225	58	58	100	Pass
0.1237	53	53	100	Pass
0.1249	51	51	100	Pass
0.1261	46	46	100	Pass

0.1273	45	45	100	Pass
0.1286	43	43	100	Pass
0.1298	42	42	100	Pass
0.1310	40	40	100	Pass
0.1322	38	38	100	Pass
0.1334	34	34	100	Pass
0.1347	34	34	100	Pass
0.1359	32	32	100	Pass
0.1371	28	28	100	Pass
0.1383	26	26	100	Pass
0.1395	25	25	100	Pass
0.1407	23	23	100	Pass
0.1420	23	23	100	Pass
0.1432	23	23	100	Pass
0.1444	22	22	100	Pass
0.1456	20	20	100	Pass
0.1468	18	18	100	Pass
0.1481	17	17	100	Pass
0.1493	14	14	100	Pass
0.1505	14	14	100	Pass
0.1517	12	12	100	Pass
0.1529	11	11	100	Pass
0.1542	11	11	100	Pass
0.1554	11	11	100	Pass
0.1566	9	9	100	Pass
0.1578	9	9	100	Pass
0.1590	6	6	100	Pass
0.1603	6	6	100	Pass
0.1615	6	6	100	Pass
0.1627	6	6	100	Pass
0.1639	6	6	100	Pass
0.1651	5	5	100	Pass
0.1664	4	4	100	Pass
0.1676	3	3	100	Pass
0.1688	3	3	100	Pass
0.1700	3	3	100	Pass
0.1712	3	3	100	Pass
0.1725	2	2	100	Pass
0.1737	2	2	100	Pass
0.1749	2	2	100	Pass
0.1761	1	1	100	Pass
0.1773	1	1	100	Pass
0.1786	1	1	100	Pass
0.1798	1	1	100	Pass
0.1810	1	1	100	Pass
0.1822	1	1	100	Pass
0.1834	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #49

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

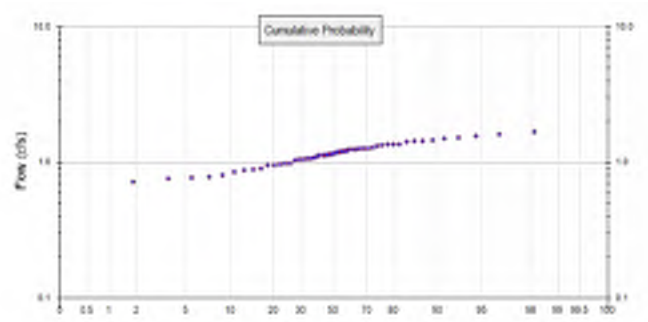
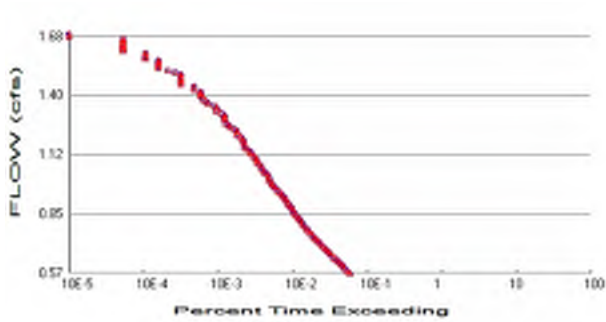
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 50



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #50

Total Pervious Area: 0.2
 Total Impervious Area: 1.45

Mitigated Landuse Totals for POC #50

Total Pervious Area: 0.2
 Total Impervious Area: 1.45

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #50

Return Period	Flow(cfs)
2 year	1.144028
5 year	1.356641
10 year	1.471527
25 year	1.595638
50 year	1.676201
100 year	1.748637

Flow Frequency Return Periods for Mitigated. POC #50

Return Period	Flow(cfs)
2 year	1.144028
5 year	1.356641
10 year	1.471527
25 year	1.595638
50 year	1.676201
100 year	1.748637

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #50

Year	Predeveloped	Mitigated
1956	1.199	1.199
1957	1.501	1.501
1958	1.161	1.161
1959	1.145	1.145
1960	1.189	1.189
1961	0.978	0.978
1962	1.570	1.570
1963	1.444	1.444
1964	1.256	1.256
1965	1.248	1.248
1966	1.217	1.217

1967	0.780	0.780
1968	1.178	1.178
1969	1.115	1.115
1970	1.065	1.065
1971	1.605	1.605
1972	1.354	1.354
1973	1.275	1.275
1974	1.211	1.211
1975	1.076	1.076
1976	1.316	1.316
1977	0.957	0.957
1978	1.672	1.672
1979	1.048	1.048
1980	0.967	0.967
1981	1.239	1.239
1982	1.428	1.428
1983	1.126	1.126
1984	1.036	1.036
1985	0.797	0.797
1986	1.258	1.258
1987	0.878	0.878
1988	1.330	1.330
1989	1.125	1.125
1990	1.450	1.450
1991	0.959	0.959
1992	0.754	0.754
1993	0.848	0.848
1994	1.062	1.062
1995	1.045	1.045
1996	1.270	1.270
1997	1.238	1.238
1998	0.773	0.773
1999	0.979	0.979
2000	0.900	0.900
2001	0.889	0.889
2002	1.366	1.366
2003	1.530	1.530
2004	1.425	1.425
2005	1.130	1.130
2006	1.150	1.150
2007	1.355	1.355
2008	0.716	0.716
2009	0.678	0.678

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #50

Rank	Predeveloped	Mitigated
1	1.6722	1.6722
2	1.6050	1.6050
3	1.5700	1.5700
4	1.5298	1.5298
5	1.5009	1.5009
6	1.4498	1.4498
7	1.4441	1.4441
8	1.4279	1.4279
9	1.4251	1.4251
10	1.3661	1.3661
11	1.3551	1.3551

12	1.3537	1.3537
13	1.3296	1.3296
14	1.3159	1.3159
15	1.2749	1.2749
16	1.2704	1.2704
17	1.2580	1.2580
18	1.2561	1.2561
19	1.2481	1.2481
20	1.2387	1.2387
21	1.2385	1.2385
22	1.2169	1.2169
23	1.2111	1.2111
24	1.1994	1.1994
25	1.1889	1.1889
26	1.1776	1.1776
27	1.1611	1.1611
28	1.1505	1.1505
29	1.1448	1.1448
30	1.1297	1.1297
31	1.1262	1.1262
32	1.1245	1.1245
33	1.1151	1.1151
34	1.0764	1.0764
35	1.0646	1.0646
36	1.0619	1.0619
37	1.0480	1.0480
38	1.0450	1.0450
39	1.0364	1.0364
40	0.9791	0.9791
41	0.9778	0.9778
42	0.9674	0.9674
43	0.9588	0.9588
44	0.9571	0.9571
45	0.8999	0.8999
46	0.8892	0.8892
47	0.8780	0.8780
48	0.8480	0.8480
49	0.7975	0.7975
50	0.7797	0.7797
51	0.7735	0.7735
52	0.7538	0.7538
53	0.7164	0.7164
54	0.6780	0.6780

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.5720	1097	1097	100	Pass
0.5832	1025	1025	100	Pass
0.5943	953	953	100	Pass
0.6055	887	887	100	Pass
0.6166	830	830	100	Pass
0.6278	770	770	100	Pass
0.6389	715	715	100	Pass
0.6501	658	658	100	Pass
0.6612	606	606	100	Pass
0.6724	563	563	100	Pass
0.6835	528	528	100	Pass
0.6947	494	494	100	Pass
0.7059	464	464	100	Pass
0.7170	422	422	100	Pass
0.7282	394	394	100	Pass
0.7393	368	368	100	Pass
0.7505	344	344	100	Pass
0.7616	319	319	100	Pass
0.7728	299	299	100	Pass
0.7839	285	285	100	Pass
0.7951	265	265	100	Pass
0.8062	255	255	100	Pass
0.8174	238	238	100	Pass
0.8285	228	228	100	Pass
0.8397	216	216	100	Pass
0.8508	203	203	100	Pass
0.8620	194	194	100	Pass
0.8732	184	184	100	Pass
0.8843	174	174	100	Pass
0.8955	166	166	100	Pass
0.9066	159	159	100	Pass
0.9178	151	151	100	Pass
0.9289	142	142	100	Pass
0.9401	135	135	100	Pass
0.9512	126	126	100	Pass
0.9624	115	115	100	Pass
0.9735	108	108	100	Pass
0.9847	100	100	100	Pass
0.9958	98	98	100	Pass
1.0070	93	93	100	Pass
1.0182	91	91	100	Pass
1.0293	89	89	100	Pass
1.0405	81	81	100	Pass
1.0516	77	77	100	Pass
1.0628	73	73	100	Pass
1.0739	70	70	100	Pass
1.0851	64	64	100	Pass
1.0962	63	63	100	Pass
1.1074	61	61	100	Pass
1.1185	57	57	100	Pass
1.1297	53	53	100	Pass
1.1408	51	51	100	Pass
1.1520	46	46	100	Pass

1.1631	43	43	100	Pass
1.1743	43	43	100	Pass
1.1855	42	42	100	Pass
1.1966	40	40	100	Pass
1.2078	38	38	100	Pass
1.2189	34	34	100	Pass
1.2301	34	34	100	Pass
1.2412	32	32	100	Pass
1.2524	28	28	100	Pass
1.2635	26	26	100	Pass
1.2747	24	24	100	Pass
1.2858	23	23	100	Pass
1.2970	23	23	100	Pass
1.3081	23	23	100	Pass
1.3193	21	21	100	Pass
1.3304	18	18	100	Pass
1.3416	18	18	100	Pass
1.3528	17	17	100	Pass
1.3639	14	14	100	Pass
1.3751	13	13	100	Pass
1.3862	12	12	100	Pass
1.3974	11	11	100	Pass
1.4085	11	11	100	Pass
1.4197	11	11	100	Pass
1.4308	9	9	100	Pass
1.4420	9	9	100	Pass
1.4531	6	6	100	Pass
1.4643	6	6	100	Pass
1.4754	6	6	100	Pass
1.4866	6	6	100	Pass
1.4977	6	6	100	Pass
1.5089	5	5	100	Pass
1.5201	4	4	100	Pass
1.5312	3	3	100	Pass
1.5424	3	3	100	Pass
1.5535	3	3	100	Pass
1.5647	3	3	100	Pass
1.5758	2	2	100	Pass
1.5870	2	2	100	Pass
1.5981	2	2	100	Pass
1.6093	1	1	100	Pass
1.6204	1	1	100	Pass
1.6316	1	1	100	Pass
1.6427	1	1	100	Pass
1.6539	1	1	100	Pass
1.6650	1	1	100	Pass
1.6762	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #50

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

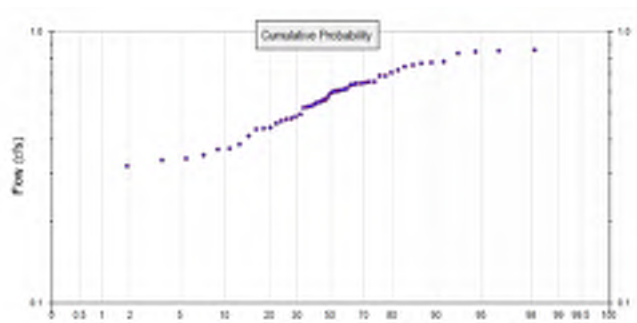
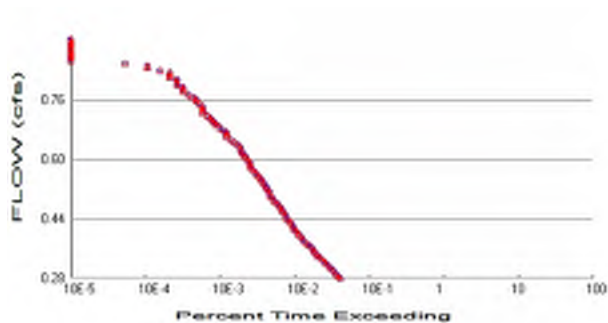
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 51



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #51

Total Pervious Area: 0.53
 Total Impervious Area: 0.48

Mitigated Landuse Totals for POC #51

Total Pervious Area: 0.53
 Total Impervious Area: 0.48

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #51

Return Period	Flow(cfs)
2 year	0.565543
5 year	0.700939
10 year	0.776485
25 year	0.859832
50 year	0.914849
100 year	0.964905

Flow Frequency Return Periods for Mitigated. POC #51

Return Period	Flow(cfs)
2 year	0.565543
5 year	0.700939
10 year	0.776485
25 year	0.859832
50 year	0.914849
100 year	0.964905

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #51

Year	Predeveloped	Mitigated
1956	0.651	0.651
1957	0.763	0.763
1958	0.554	0.554
1959	0.607	0.607
1960	0.643	0.643
1961	0.438	0.438
1962	0.853	0.853
1963	0.770	0.770
1964	0.620	0.620
1965	0.647	0.647
1966	0.653	0.653

1967	0.368	0.368
1968	0.612	0.612
1969	0.600	0.600
1970	0.486	0.486
1971	0.859	0.859
1972	0.743	0.743
1973	0.636	0.636
1974	0.653	0.653
1975	0.548	0.548
1976	0.687	0.687
1977	0.468	0.468
1978	0.842	0.842
1979	0.539	0.539
1980	0.476	0.476
1981	0.609	0.609
1982	0.705	0.705
1983	0.559	0.559
1984	0.534	0.534
1985	0.337	0.337
1986	0.646	0.646
1987	0.440	0.440
1988	0.688	0.688
1989	0.558	0.558
1990	0.775	0.775
1991	0.458	0.458
1992	0.340	0.340
1993	0.370	0.370
1994	0.530	0.530
1995	0.412	0.412
1996	0.526	0.526
1997	0.604	0.604
1998	0.351	0.351
1999	0.479	0.479
2000	0.443	0.443
2001	0.386	0.386
2002	0.495	0.495
2003	0.835	0.835
2004	0.753	0.753
2005	0.576	0.576
2006	0.594	0.594
2007	0.722	0.722
2008	0.320	0.320
2009	0.293	0.293

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #51

Rank	Predeveloped	Mitigated
1	0.8588	0.8588
2	0.8535	0.8535
3	0.8419	0.8419
4	0.8345	0.8345
5	0.7754	0.7754
6	0.7701	0.7701
7	0.7625	0.7625
8	0.7526	0.7526
9	0.7432	0.7432
10	0.7216	0.7216
11	0.7054	0.7054

12	0.6875	0.6875
13	0.6869	0.6869
14	0.6533	0.6533
15	0.6528	0.6528
16	0.6507	0.6507
17	0.6468	0.6468
18	0.6455	0.6455
19	0.6425	0.6425
20	0.6355	0.6355
21	0.6202	0.6202
22	0.6120	0.6120
23	0.6086	0.6086
24	0.6068	0.6068
25	0.6037	0.6037
26	0.6002	0.6002
27	0.5935	0.5935
28	0.5765	0.5765
29	0.5594	0.5594
30	0.5585	0.5585
31	0.5538	0.5538
32	0.5476	0.5476
33	0.5389	0.5389
34	0.5343	0.5343
35	0.5296	0.5296
36	0.5256	0.5256
37	0.4952	0.4952
38	0.4861	0.4861
39	0.4790	0.4790
40	0.4760	0.4760
41	0.4682	0.4682
42	0.4582	0.4582
43	0.4427	0.4427
44	0.4396	0.4396
45	0.4378	0.4378
46	0.4120	0.4120
47	0.3857	0.3857
48	0.3704	0.3704
49	0.3685	0.3685
50	0.3514	0.3514
51	0.3397	0.3397
52	0.3371	0.3371
53	0.3202	0.3202
54	0.2928	0.2928

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2828	772	772	100	Pass
0.2892	720	720	100	Pass
0.2955	671	671	100	Pass
0.3019	631	631	100	Pass
0.3083	585	585	100	Pass
0.3147	550	550	100	Pass
0.3211	508	508	100	Pass
0.3275	473	473	100	Pass
0.3338	434	434	100	Pass
0.3402	394	394	100	Pass
0.3466	375	375	100	Pass
0.3530	353	353	100	Pass
0.3594	335	335	100	Pass
0.3658	318	318	100	Pass
0.3722	290	290	100	Pass
0.3785	268	268	100	Pass
0.3849	248	248	100	Pass
0.3913	235	235	100	Pass
0.3977	216	216	100	Pass
0.4041	209	209	100	Pass
0.4105	196	196	100	Pass
0.4168	186	186	100	Pass
0.4232	177	177	100	Pass
0.4296	171	171	100	Pass
0.4360	162	162	100	Pass
0.4424	151	151	100	Pass
0.4488	145	145	100	Pass
0.4552	139	139	100	Pass
0.4615	131	131	100	Pass
0.4679	126	126	100	Pass
0.4743	119	119	100	Pass
0.4807	112	112	100	Pass
0.4871	102	102	100	Pass
0.4935	98	98	100	Pass
0.4998	93	93	100	Pass
0.5062	89	89	100	Pass
0.5126	88	88	100	Pass
0.5190	82	82	100	Pass
0.5254	79	79	100	Pass
0.5318	76	76	100	Pass
0.5382	73	73	100	Pass
0.5445	68	68	100	Pass
0.5509	65	65	100	Pass
0.5573	61	61	100	Pass
0.5637	57	57	100	Pass
0.5701	53	53	100	Pass
0.5765	49	49	100	Pass
0.5828	48	48	100	Pass
0.5892	48	48	100	Pass
0.5956	46	46	100	Pass
0.6020	43	43	100	Pass
0.6084	41	41	100	Pass
0.6148	38	38	100	Pass

0.6212	37	37	100	Pass
0.6275	36	36	100	Pass
0.6339	35	35	100	Pass
0.6403	32	32	100	Pass
0.6467	29	29	100	Pass
0.6531	26	26	100	Pass
0.6595	23	23	100	Pass
0.6658	23	23	100	Pass
0.6722	23	23	100	Pass
0.6786	21	21	100	Pass
0.6850	19	19	100	Pass
0.6914	17	17	100	Pass
0.6978	16	16	100	Pass
0.7042	15	15	100	Pass
0.7105	14	14	100	Pass
0.7169	13	13	100	Pass
0.7233	11	11	100	Pass
0.7297	11	11	100	Pass
0.7361	11	11	100	Pass
0.7425	11	11	100	Pass
0.7488	10	10	100	Pass
0.7552	9	9	100	Pass
0.7616	9	9	100	Pass
0.7680	8	8	100	Pass
0.7744	7	7	100	Pass
0.7808	6	6	100	Pass
0.7872	6	6	100	Pass
0.7935	6	6	100	Pass
0.7999	5	5	100	Pass
0.8063	5	5	100	Pass
0.8127	5	5	100	Pass
0.8191	4	4	100	Pass
0.8255	4	4	100	Pass
0.8318	4	4	100	Pass
0.8382	3	3	100	Pass
0.8446	2	2	100	Pass
0.8510	2	2	100	Pass
0.8574	1	1	100	Pass
0.8638	0	0	100	Pass
0.8702	0	0	0	Pass
0.8765	0	0	0	Pass
0.8829	0	0	0	Pass
0.8893	0	0	0	Pass
0.8957	0	0	0	Pass
0.9021	0	0	0	Pass
0.9085	0	0	0	Pass
0.9148	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #51

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

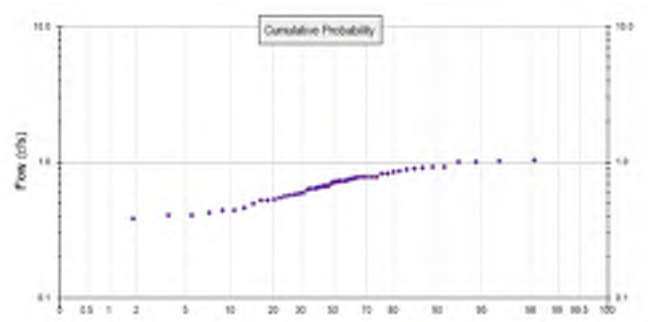
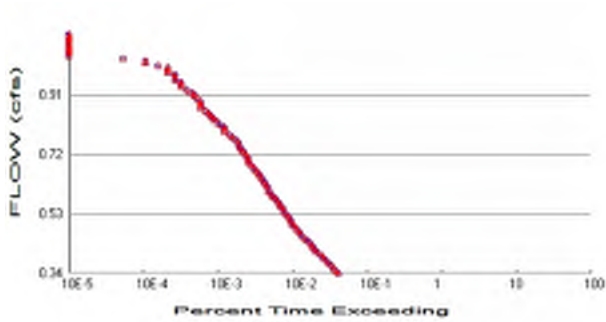
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 52



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #52

Total Pervious Area: 0.63
Total Impervious Area: 0.58

Mitigated Landuse Totals for POC #52

Total Pervious Area: 0.63
Total Impervious Area: 0.58

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #52

Return Period	Flow(cfs)
2 year	0.679156
5 year	0.841231
10 year	0.931622
25 year	1.031317
50 year	1.09711
100 year	1.156962

Flow Frequency Return Periods for Mitigated. POC #52

Return Period	Flow(cfs)
2 year	0.679156
5 year	0.841231
10 year	0.931622
25 year	1.031317
50 year	1.09711
100 year	1.156962

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #52

Year	Predeveloped	Mitigated
1956	0.781	0.781
1957	0.915	0.915
1958	0.665	0.665
1959	0.728	0.728
1960	0.771	0.771
1961	0.525	0.525
1962	1.024	1.024
1963	0.924	0.924
1964	0.745	0.745
1965	0.776	0.776
1966	0.784	0.784

1967	0.443	0.443
1968	0.734	0.734
1969	0.720	0.720
1970	0.584	0.584
1971	1.030	1.030
1972	0.891	0.891
1973	0.763	0.763
1974	0.783	0.783
1975	0.657	0.657
1976	0.824	0.824
1977	0.562	0.562
1978	1.011	1.011
1979	0.647	0.647
1980	0.571	0.571
1981	0.731	0.731
1982	0.847	0.847
1983	0.672	0.672
1984	0.641	0.641
1985	0.406	0.406
1986	0.775	0.775
1987	0.528	0.528
1988	0.825	0.825
1989	0.671	0.671
1990	0.930	0.930
1991	0.550	0.550
1992	0.408	0.408
1993	0.446	0.446
1994	0.636	0.636
1995	0.496	0.496
1996	0.633	0.633
1997	0.725	0.725
1998	0.422	0.422
1999	0.575	0.575
2000	0.532	0.532
2001	0.464	0.464
2002	0.597	0.597
2003	1.001	1.001
2004	0.903	0.903
2005	0.692	0.692
2006	0.712	0.712
2007	0.866	0.866
2008	0.385	0.385
2009	0.352	0.352

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #52

Rank	Predeveloped	Mitigated
1	1.0303	1.0303
2	1.0238	1.0238
3	1.0109	1.0109
4	1.0010	1.0010
5	0.9303	0.9303
6	0.9240	0.9240
7	0.9154	0.9154
8	0.9031	0.9031
9	0.8915	0.8915
10	0.8658	0.8658
11	0.8471	0.8471

12	0.8252	0.8252
13	0.8244	0.8244
14	0.7837	0.7837
15	0.7832	0.7832
16	0.7806	0.7806
17	0.7763	0.7763
18	0.7749	0.7749
19	0.7708	0.7708
20	0.7631	0.7631
21	0.7448	0.7448
22	0.7345	0.7345
23	0.7310	0.7310
24	0.7281	0.7281
25	0.7251	0.7251
26	0.7201	0.7201
27	0.7124	0.7124
28	0.6921	0.6921
29	0.6717	0.6717
30	0.6706	0.6706
31	0.6654	0.6654
32	0.6574	0.6574
33	0.6469	0.6469
34	0.6413	0.6413
35	0.6359	0.6359
36	0.6328	0.6328
37	0.5974	0.5974
38	0.5844	0.5844
39	0.5752	0.5752
40	0.5714	0.5714
41	0.5624	0.5624
42	0.5501	0.5501
43	0.5317	0.5317
44	0.5278	0.5278
45	0.5254	0.5254
46	0.4964	0.4964
47	0.4640	0.4640
48	0.4456	0.4456
49	0.4428	0.4428
50	0.4224	0.4224
51	0.4085	0.4085
52	0.4057	0.4057
53	0.3851	0.3851
54	0.3523	0.3523

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3396	772	772	100	Pass
0.3472	722	722	100	Pass
0.3549	676	676	100	Pass
0.3625	631	631	100	Pass
0.3702	585	585	100	Pass
0.3778	551	551	100	Pass
0.3855	512	512	100	Pass
0.3931	474	474	100	Pass
0.4008	438	438	100	Pass
0.4084	395	395	100	Pass
0.4161	375	375	100	Pass
0.4237	357	357	100	Pass
0.4314	335	335	100	Pass
0.4391	318	318	100	Pass
0.4467	291	291	100	Pass
0.4544	269	269	100	Pass
0.4620	247	247	100	Pass
0.4697	236	236	100	Pass
0.4773	217	217	100	Pass
0.4850	209	209	100	Pass
0.4926	197	197	100	Pass
0.5003	186	186	100	Pass
0.5079	178	178	100	Pass
0.5156	171	171	100	Pass
0.5232	163	163	100	Pass
0.5309	152	152	100	Pass
0.5385	145	145	100	Pass
0.5462	140	140	100	Pass
0.5538	131	131	100	Pass
0.5615	126	126	100	Pass
0.5691	120	120	100	Pass
0.5768	112	112	100	Pass
0.5844	103	103	100	Pass
0.5921	98	98	100	Pass
0.5997	93	93	100	Pass
0.6074	90	90	100	Pass
0.6150	88	88	100	Pass
0.6227	83	83	100	Pass
0.6303	79	79	100	Pass
0.6380	76	76	100	Pass
0.6457	73	73	100	Pass
0.6533	68	68	100	Pass
0.6610	65	65	100	Pass
0.6686	61	61	100	Pass
0.6763	57	57	100	Pass
0.6839	53	53	100	Pass
0.6916	49	49	100	Pass
0.6992	48	48	100	Pass
0.7069	48	48	100	Pass
0.7145	46	46	100	Pass
0.7222	43	43	100	Pass
0.7298	41	41	100	Pass
0.7375	38	38	100	Pass

0.7451	37	37	100	Pass
0.7528	36	36	100	Pass
0.7604	35	35	100	Pass
0.7681	32	32	100	Pass
0.7757	29	29	100	Pass
0.7834	27	27	100	Pass
0.7910	23	23	100	Pass
0.7987	23	23	100	Pass
0.8063	23	23	100	Pass
0.8140	21	21	100	Pass
0.8216	19	19	100	Pass
0.8293	17	17	100	Pass
0.8369	16	16	100	Pass
0.8446	15	15	100	Pass
0.8523	14	14	100	Pass
0.8599	13	13	100	Pass
0.8676	11	11	100	Pass
0.8752	11	11	100	Pass
0.8829	11	11	100	Pass
0.8905	11	11	100	Pass
0.8982	10	10	100	Pass
0.9058	9	9	100	Pass
0.9135	9	9	100	Pass
0.9211	8	8	100	Pass
0.9288	7	7	100	Pass
0.9364	6	6	100	Pass
0.9441	6	6	100	Pass
0.9517	6	6	100	Pass
0.9594	5	5	100	Pass
0.9670	5	5	100	Pass
0.9747	5	5	100	Pass
0.9823	4	4	100	Pass
0.9900	4	4	100	Pass
0.9976	4	4	100	Pass
1.0053	3	3	100	Pass
1.0129	2	2	100	Pass
1.0206	2	2	100	Pass
1.0282	1	1	100	Pass
1.0359	0	0	100	Pass
1.0435	0	0	0	Pass
1.0512	0	0	0	Pass
1.0589	0	0	0	Pass
1.0665	0	0	0	Pass
1.0742	0	0	0	Pass
1.0818	0	0	0	Pass
1.0895	0	0	0	Pass
1.0971	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #52

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

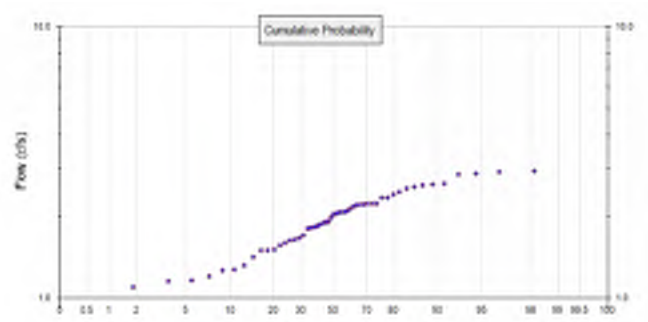
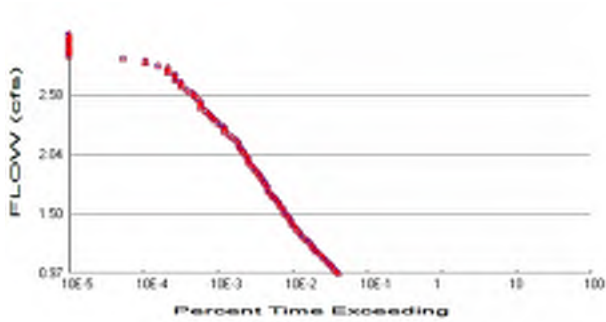
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 53



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #53

Total Pervious Area: 1.79
Total Impervious Area: 1.65

Mitigated Landuse Totals for POC #53

Total Pervious Area: 1.79
Total Impervious Area: 1.65

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #53

Return Period	Flow(cfs)
2 year	1.931178
5 year	2.391922
10 year	2.648877
25 year	2.932274
50 year	3.119296
100 year	3.289427

Flow Frequency Return Periods for Mitigated. POC #53

Return Period	Flow(cfs)
2 year	1.931178
5 year	2.391922
10 year	2.648877
25 year	2.932274
50 year	3.119296
100 year	3.289427

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #53

Year	Predeveloped	Mitigated
1956	2.219	2.219
1957	2.603	2.603
1958	1.892	1.892
1959	2.070	2.070
1960	2.192	2.192
1961	1.494	1.494
1962	2.911	2.911
1963	2.627	2.627
1964	2.118	2.118
1965	2.207	2.207
1966	2.228	2.228

1967	1.259	1.259
1968	2.088	2.088
1969	2.047	2.047
1970	1.662	1.662
1971	2.929	2.929
1972	2.535	2.535
1973	2.170	2.170
1974	2.227	2.227
1975	1.869	1.869
1976	2.344	2.344
1977	1.599	1.599
1978	2.874	2.874
1979	1.839	1.839
1980	1.625	1.625
1981	2.079	2.079
1982	2.409	2.409
1983	1.910	1.910
1984	1.824	1.824
1985	1.154	1.154
1986	2.203	2.203
1987	1.501	1.501
1988	2.346	2.346
1989	1.907	1.907
1990	2.645	2.645
1991	1.564	1.564
1992	1.162	1.162
1993	1.267	1.267
1994	1.808	1.808
1995	1.412	1.412
1996	1.800	1.800
1997	2.062	2.062
1998	1.201	1.201
1999	1.636	1.636
2000	1.512	1.512
2001	1.320	1.320
2002	1.699	1.699
2003	2.846	2.846
2004	2.568	2.568
2005	1.968	1.968
2006	2.026	2.026
2007	2.462	2.462
2008	1.095	1.095
2009	1.002	1.002

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #53

Rank	Predeveloped	Mitigated
1	2.9295	2.9295
2	2.9108	2.9108
3	2.8743	2.8743
4	2.8462	2.8462
5	2.6450	2.6450
6	2.6272	2.6272
7	2.6030	2.6030
8	2.5679	2.5679
9	2.5346	2.5346
10	2.4617	2.4617
11	2.4087	2.4087

12	2.3464	2.3464
13	2.3439	2.3439
14	2.2284	2.2284
15	2.2268	2.2268
16	2.2194	2.2194
17	2.2073	2.2073
18	2.2033	2.2033
19	2.1916	2.1916
20	2.1700	2.1700
21	2.1177	2.1177
22	2.0884	2.0884
23	2.0786	2.0786
24	2.0703	2.0703
25	2.0620	2.0620
26	2.0474	2.0474
27	2.0256	2.0256
28	1.9678	1.9678
29	1.9100	1.9100
30	1.9070	1.9070
31	1.8922	1.8922
32	1.8693	1.8693
33	1.8394	1.8394
34	1.8235	1.8235
35	1.8082	1.8082
36	1.7997	1.7997
37	1.6992	1.6992
38	1.6619	1.6619
39	1.6356	1.6356
40	1.6247	1.6247
41	1.5992	1.5992
42	1.5642	1.5642
43	1.5118	1.5118
44	1.5008	1.5008
45	1.4938	1.4938
46	1.4119	1.4119
47	1.3196	1.3196
48	1.2672	1.2672
49	1.2591	1.2591
50	1.2013	1.2013
51	1.1616	1.1616
52	1.1539	1.1539
53	1.0950	1.0950
54	1.0019	1.0019

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.9656	769	769	100	Pass
0.9873	722	722	100	Pass
1.0091	670	670	100	Pass
1.0309	629	629	100	Pass
1.0526	585	585	100	Pass
1.0744	550	550	100	Pass
1.0961	510	510	100	Pass
1.1179	474	474	100	Pass
1.1396	434	434	100	Pass
1.1614	395	395	100	Pass
1.1831	375	375	100	Pass
1.2049	357	357	100	Pass
1.2266	335	335	100	Pass
1.2484	318	318	100	Pass
1.2702	291	291	100	Pass
1.2919	269	269	100	Pass
1.3137	247	247	100	Pass
1.3354	235	235	100	Pass
1.3572	216	216	100	Pass
1.3789	209	209	100	Pass
1.4007	197	197	100	Pass
1.4224	186	186	100	Pass
1.4442	178	178	100	Pass
1.4659	171	171	100	Pass
1.4877	163	163	100	Pass
1.5095	151	151	100	Pass
1.5312	145	145	100	Pass
1.5530	140	140	100	Pass
1.5747	130	130	100	Pass
1.5965	126	126	100	Pass
1.6182	119	119	100	Pass
1.6400	112	112	100	Pass
1.6617	103	103	100	Pass
1.6835	98	98	100	Pass
1.7052	92	92	100	Pass
1.7270	89	89	100	Pass
1.7488	88	88	100	Pass
1.7705	83	83	100	Pass
1.7923	79	79	100	Pass
1.8140	76	76	100	Pass
1.8358	73	73	100	Pass
1.8575	68	68	100	Pass
1.8793	65	65	100	Pass
1.9010	61	61	100	Pass
1.9228	57	57	100	Pass
1.9445	53	53	100	Pass
1.9663	49	49	100	Pass
1.9881	48	48	100	Pass
2.0098	48	48	100	Pass
2.0316	46	46	100	Pass
2.0533	43	43	100	Pass
2.0751	41	41	100	Pass
2.0968	38	38	100	Pass

2.1186	37	37	100	Pass
2.1403	36	36	100	Pass
2.1621	35	35	100	Pass
2.1838	32	32	100	Pass
2.2056	29	29	100	Pass
2.2274	26	26	100	Pass
2.2491	23	23	100	Pass
2.2709	23	23	100	Pass
2.2926	23	23	100	Pass
2.3144	21	21	100	Pass
2.3361	19	19	100	Pass
2.3579	17	17	100	Pass
2.3796	16	16	100	Pass
2.4014	15	15	100	Pass
2.4231	14	14	100	Pass
2.4449	13	13	100	Pass
2.4667	11	11	100	Pass
2.4884	11	11	100	Pass
2.5102	11	11	100	Pass
2.5319	11	11	100	Pass
2.5537	10	10	100	Pass
2.5754	9	9	100	Pass
2.5972	9	9	100	Pass
2.6189	8	8	100	Pass
2.6407	7	7	100	Pass
2.6624	6	6	100	Pass
2.6842	6	6	100	Pass
2.7060	6	6	100	Pass
2.7277	5	5	100	Pass
2.7495	5	5	100	Pass
2.7712	5	5	100	Pass
2.7930	4	4	100	Pass
2.8147	4	4	100	Pass
2.8365	4	4	100	Pass
2.8582	3	3	100	Pass
2.8800	2	2	100	Pass
2.9017	2	2	100	Pass
2.9235	1	1	100	Pass
2.9453	0	0	100	Pass
2.9670	0	0	0	Pass
2.9888	0	0	0	Pass
3.0105	0	0	0	Pass
3.0323	0	0	0	Pass
3.0540	0	0	0	Pass
3.0758	0	0	0	Pass
3.0975	0	0	0	Pass
3.1193	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #53

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

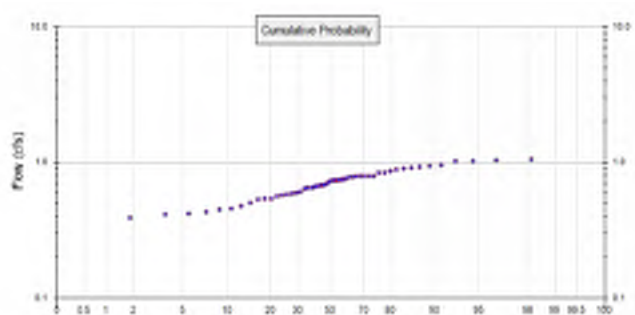
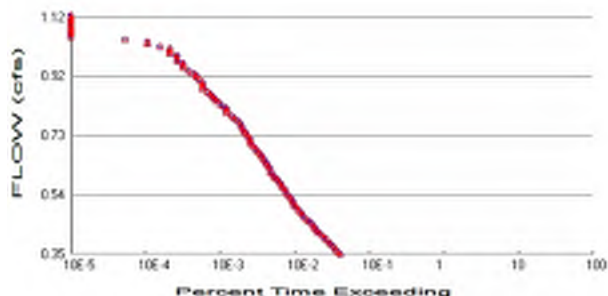
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 54



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #54

Total Pervious Area: 0.64
Total Impervious Area: 0.59

Mitigated Landuse Totals for POC #54

Total Pervious Area: 0.64
Total Impervious Area: 0.59

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #54

Return Period	Flow(cfs)
2 year	0.690518
5 year	0.85526
10 year	0.947136
25 year	1.048467
50 year	1.115338
100 year	1.176169

Flow Frequency Return Periods for Mitigated. POC #54

Return Period	Flow(cfs)
2 year	0.690518
5 year	0.85526
10 year	0.947136
25 year	1.048467
50 year	1.115338
100 year	1.176169

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #54

Year	Predeveloped	Mitigated
1956	0.794	0.794
1957	0.931	0.931
1958	0.677	0.677
1959	0.740	0.740
1960	0.784	0.784
1961	0.534	0.534
1962	1.041	1.041
1963	0.939	0.939
1964	0.757	0.757
1965	0.789	0.789
1966	0.797	0.797

1967	0.450	0.450
1968	0.747	0.747
1969	0.732	0.732
1970	0.594	0.594
1971	1.047	1.047
1972	0.906	0.906
1973	0.776	0.776
1974	0.796	0.796
1975	0.668	0.668
1976	0.838	0.838
1977	0.572	0.572
1978	1.028	1.028
1979	0.658	0.658
1980	0.581	0.581
1981	0.743	0.743
1982	0.861	0.861
1983	0.683	0.683
1984	0.652	0.652
1985	0.413	0.413
1986	0.788	0.788
1987	0.537	0.537
1988	0.839	0.839
1989	0.682	0.682
1990	0.946	0.946
1991	0.559	0.559
1992	0.415	0.415
1993	0.453	0.453
1994	0.647	0.647
1995	0.505	0.505
1996	0.643	0.643
1997	0.737	0.737
1998	0.430	0.430
1999	0.585	0.585
2000	0.541	0.541
2001	0.472	0.472
2002	0.608	0.608
2003	1.018	1.018
2004	0.918	0.918
2005	0.704	0.704
2006	0.724	0.724
2007	0.880	0.880
2008	0.392	0.392
2009	0.358	0.358

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #54

Rank	Predeveloped	Mitigated
1	1.0475	1.0475
2	1.0408	1.0408
3	1.0278	1.0278
4	1.0177	1.0177
5	0.9458	0.9458
6	0.9394	0.9394
7	0.9307	0.9307
8	0.9182	0.9182
9	0.9063	0.9063
10	0.8802	0.8802
11	0.8613	0.8613

12	0.8390	0.8390
13	0.8381	0.8381
14	0.7968	0.7968
15	0.7962	0.7962
16	0.7936	0.7936
17	0.7892	0.7892
18	0.7878	0.7878
19	0.7836	0.7836
20	0.7759	0.7759
21	0.7572	0.7572
22	0.7467	0.7467
23	0.7432	0.7432
24	0.7403	0.7403
25	0.7373	0.7373
26	0.7321	0.7321
27	0.7243	0.7243
28	0.7036	0.7036
29	0.6830	0.6830
30	0.6819	0.6819
31	0.6766	0.6766
32	0.6684	0.6684
33	0.6577	0.6577
34	0.6520	0.6520
35	0.6465	0.6465
36	0.6435	0.6435
37	0.6076	0.6076
38	0.5942	0.5942
39	0.5848	0.5848
40	0.5809	0.5809
41	0.5718	0.5718
42	0.5593	0.5593
43	0.5406	0.5406
44	0.5366	0.5366
45	0.5341	0.5341
46	0.5048	0.5048
47	0.4719	0.4719
48	0.4531	0.4531
49	0.4502	0.4502
50	0.4295	0.4295
51	0.4153	0.4153
52	0.4126	0.4126
53	0.3915	0.3915
54	0.3582	0.3582

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3453	770	770	100	Pass
0.3530	721	721	100	Pass
0.3608	676	676	100	Pass
0.3686	631	631	100	Pass
0.3764	586	586	100	Pass
0.3842	550	550	100	Pass
0.3919	514	514	100	Pass
0.3997	476	476	100	Pass
0.4075	436	436	100	Pass
0.4153	395	395	100	Pass
0.4230	375	375	100	Pass
0.4308	357	357	100	Pass
0.4386	335	335	100	Pass
0.4464	318	318	100	Pass
0.4542	291	291	100	Pass
0.4619	269	269	100	Pass
0.4697	248	248	100	Pass
0.4775	235	235	100	Pass
0.4853	217	217	100	Pass
0.4931	209	209	100	Pass
0.5008	197	197	100	Pass
0.5086	186	186	100	Pass
0.5164	178	178	100	Pass
0.5242	171	171	100	Pass
0.5319	163	163	100	Pass
0.5397	152	152	100	Pass
0.5475	145	145	100	Pass
0.5553	140	140	100	Pass
0.5631	130	130	100	Pass
0.5708	126	126	100	Pass
0.5786	120	120	100	Pass
0.5864	112	112	100	Pass
0.5942	103	103	100	Pass
0.6020	98	98	100	Pass
0.6097	93	93	100	Pass
0.6175	90	90	100	Pass
0.6253	88	88	100	Pass
0.6331	83	83	100	Pass
0.6408	79	79	100	Pass
0.6486	76	76	100	Pass
0.6564	73	73	100	Pass
0.6642	68	68	100	Pass
0.6720	65	65	100	Pass
0.6797	61	61	100	Pass
0.6875	57	57	100	Pass
0.6953	53	53	100	Pass
0.7031	49	49	100	Pass
0.7109	48	48	100	Pass
0.7186	48	48	100	Pass
0.7264	46	46	100	Pass
0.7342	43	43	100	Pass
0.7420	41	41	100	Pass
0.7497	38	38	100	Pass

0.7575	38	38	100	Pass
0.7653	36	36	100	Pass
0.7731	35	35	100	Pass
0.7809	32	32	100	Pass
0.7886	29	29	100	Pass
0.7964	27	27	100	Pass
0.8042	23	23	100	Pass
0.8120	23	23	100	Pass
0.8198	23	23	100	Pass
0.8275	21	21	100	Pass
0.8353	19	19	100	Pass
0.8431	17	17	100	Pass
0.8509	16	16	100	Pass
0.8586	15	15	100	Pass
0.8664	14	14	100	Pass
0.8742	13	13	100	Pass
0.8820	11	11	100	Pass
0.8898	11	11	100	Pass
0.8975	11	11	100	Pass
0.9053	11	11	100	Pass
0.9131	10	10	100	Pass
0.9209	9	9	100	Pass
0.9287	9	9	100	Pass
0.9364	8	8	100	Pass
0.9442	7	7	100	Pass
0.9520	6	6	100	Pass
0.9598	6	6	100	Pass
0.9675	6	6	100	Pass
0.9753	5	5	100	Pass
0.9831	5	5	100	Pass
0.9909	5	5	100	Pass
0.9987	4	4	100	Pass
1.0064	4	4	100	Pass
1.0142	4	4	100	Pass
1.0220	3	3	100	Pass
1.0298	2	2	100	Pass
1.0376	2	2	100	Pass
1.0453	1	1	100	Pass
1.0531	0	0	100	Pass
1.0609	0	0	0	Pass
1.0687	0	0	0	Pass
1.0764	0	0	0	Pass
1.0842	0	0	0	Pass
1.0920	0	0	0	Pass
1.0998	0	0	0	Pass
1.1076	0	0	0	Pass
1.1153	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #54

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

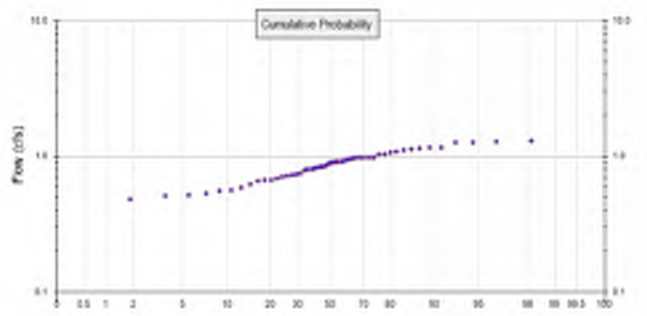
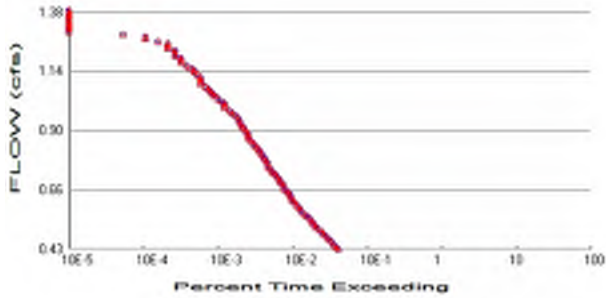
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 55



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #55

Total Pervious Area: 0.79
 Total Impervious Area: 0.73

Mitigated Landuse Totals for POC #55

Total Pervious Area: 0.79
 Total Impervious Area: 0.73

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #55

Return Period	Flow(cfs)
2 year	0.853616
5 year	1.057176
10 year	1.170693
25 year	1.295886
50 year	1.378502
100 year	1.453654

Flow Frequency Return Periods for Mitigated. POC #55

Return Period	Flow(cfs)
2 year	0.853616
5 year	1.057176
10 year	1.170693
25 year	1.295886
50 year	1.378502
100 year	1.453654

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #55

Year	Predeveloped	Mitigated
1956	0.981	0.981
1957	1.151	1.151
1958	0.836	0.836
1959	0.915	0.915
1960	0.969	0.969
1961	0.660	0.660
1962	1.286	1.286
1963	1.161	1.161
1964	0.936	0.936
1965	0.976	0.976
1966	0.985	0.985

1967	0.557	0.557
1968	0.923	0.923
1969	0.905	0.905
1970	0.735	0.735
1971	1.295	1.295
1972	1.120	1.120
1973	0.959	0.959
1974	0.984	0.984
1975	0.826	0.826
1976	1.036	1.036
1977	0.707	0.707
1978	1.270	1.270
1979	0.813	0.813
1980	0.718	0.718
1981	0.919	0.919
1982	1.065	1.065
1983	0.844	0.844
1984	0.806	0.806
1985	0.510	0.510
1986	0.974	0.974
1987	0.663	0.663
1988	1.037	1.037
1989	0.843	0.843
1990	1.169	1.169
1991	0.691	0.691
1992	0.514	0.514
1993	0.560	0.560
1994	0.799	0.799
1995	0.624	0.624
1996	0.796	0.796
1997	0.911	0.911
1998	0.531	0.531
1999	0.723	0.723
2000	0.668	0.668
2001	0.583	0.583
2002	0.752	0.752
2003	1.258	1.258
2004	1.135	1.135
2005	0.870	0.870
2006	0.895	0.895
2007	1.088	1.088
2008	0.484	0.484
2009	0.443	0.443

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #55

Rank	Predeveloped	Mitigated
1	1.2947	1.2947
2	1.2864	1.2864
3	1.2705	1.2705
4	1.2579	1.2579
5	1.1690	1.1690
6	1.1611	1.1611
7	1.1505	1.1505
8	1.1349	1.1349
9	1.1201	1.1201
10	1.0880	1.0880
11	1.0647	1.0647

12	1.0371	1.0371
13	1.0360	1.0360
14	0.9849	0.9849
15	0.9841	0.9841
16	0.9809	0.9809
17	0.9756	0.9756
18	0.9738	0.9738
19	0.9686	0.9686
20	0.9591	0.9591
21	0.9361	0.9361
22	0.9230	0.9230
23	0.9188	0.9188
24	0.9150	0.9150
25	0.9115	0.9115
26	0.9048	0.9048
27	0.8953	0.8953
28	0.8698	0.8698
29	0.8443	0.8443
30	0.8429	0.8429
31	0.8364	0.8364
32	0.8262	0.8262
33	0.8130	0.8130
34	0.8060	0.8060
35	0.7992	0.7992
36	0.7958	0.7958
37	0.7516	0.7516
38	0.7347	0.7347
39	0.7230	0.7230
40	0.7181	0.7181
41	0.7069	0.7069
42	0.6914	0.6914
43	0.6682	0.6682
44	0.6634	0.6634
45	0.6602	0.6602
46	0.6244	0.6244
47	0.5835	0.5835
48	0.5602	0.5602
49	0.5566	0.5566
50	0.5311	0.5311
51	0.5135	0.5135
52	0.5102	0.5102
53	0.4841	0.4841
54	0.4430	0.4430

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4268	772	772	100	Pass
0.4364	723	723	100	Pass
0.4460	671	671	100	Pass
0.4556	631	631	100	Pass
0.4653	585	585	100	Pass
0.4749	551	551	100	Pass
0.4845	512	512	100	Pass
0.4941	474	474	100	Pass
0.5037	438	438	100	Pass
0.5133	395	395	100	Pass
0.5229	376	376	100	Pass
0.5326	357	357	100	Pass
0.5422	335	335	100	Pass
0.5518	318	318	100	Pass
0.5614	291	291	100	Pass
0.5710	269	269	100	Pass
0.5806	248	248	100	Pass
0.5902	235	235	100	Pass
0.5998	218	218	100	Pass
0.6095	209	209	100	Pass
0.6191	196	196	100	Pass
0.6287	186	186	100	Pass
0.6383	178	178	100	Pass
0.6479	172	172	100	Pass
0.6575	163	163	100	Pass
0.6671	151	151	100	Pass
0.6767	145	145	100	Pass
0.6864	140	140	100	Pass
0.6960	131	131	100	Pass
0.7056	126	126	100	Pass
0.7152	120	120	100	Pass
0.7248	112	112	100	Pass
0.7344	103	103	100	Pass
0.7440	98	98	100	Pass
0.7537	93	93	100	Pass
0.7633	89	89	100	Pass
0.7729	88	88	100	Pass
0.7825	83	83	100	Pass
0.7921	79	79	100	Pass
0.8017	76	76	100	Pass
0.8113	73	73	100	Pass
0.8209	68	68	100	Pass
0.8306	65	65	100	Pass
0.8402	61	61	100	Pass
0.8498	57	57	100	Pass
0.8594	53	53	100	Pass
0.8690	49	49	100	Pass
0.8786	48	48	100	Pass
0.8882	48	48	100	Pass
0.8978	46	46	100	Pass
0.9075	43	43	100	Pass
0.9171	41	41	100	Pass
0.9267	38	38	100	Pass

0.9363	38	38	100	Pass
0.9459	36	36	100	Pass
0.9555	35	35	100	Pass
0.9651	32	32	100	Pass
0.9748	29	29	100	Pass
0.9844	27	27	100	Pass
0.9940	23	23	100	Pass
1.0036	23	23	100	Pass
1.0132	23	23	100	Pass
1.0228	21	21	100	Pass
1.0324	19	19	100	Pass
1.0420	17	17	100	Pass
1.0517	16	16	100	Pass
1.0613	15	15	100	Pass
1.0709	14	14	100	Pass
1.0805	13	13	100	Pass
1.0901	11	11	100	Pass
1.0997	11	11	100	Pass
1.1093	11	11	100	Pass
1.1189	11	11	100	Pass
1.1286	10	10	100	Pass
1.1382	9	9	100	Pass
1.1478	9	9	100	Pass
1.1574	8	8	100	Pass
1.1670	7	7	100	Pass
1.1766	6	6	100	Pass
1.1862	6	6	100	Pass
1.1959	6	6	100	Pass
1.2055	5	5	100	Pass
1.2151	5	5	100	Pass
1.2247	5	5	100	Pass
1.2343	4	4	100	Pass
1.2439	4	4	100	Pass
1.2535	4	4	100	Pass
1.2631	3	3	100	Pass
1.2728	2	2	100	Pass
1.2824	2	2	100	Pass
1.2920	1	1	100	Pass
1.3016	0	0	100	Pass
1.3112	0	0	0	Pass
1.3208	0	0	0	Pass
1.3304	0	0	0	Pass
1.3400	0	0	0	Pass
1.3497	0	0	0	Pass
1.3593	0	0	0	Pass
1.3689	0	0	0	Pass
1.3785	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #55

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

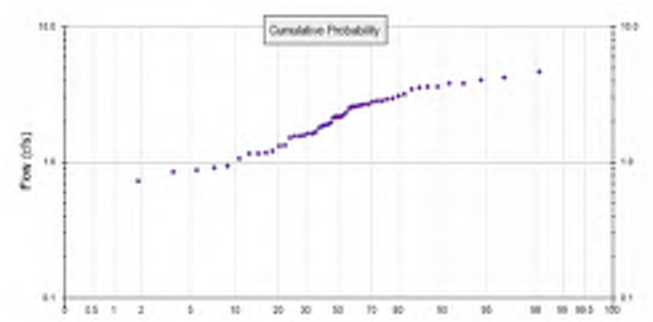
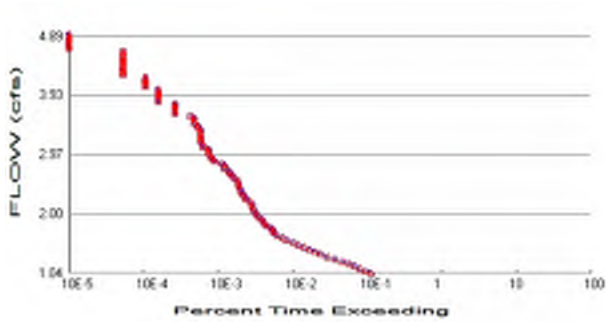
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 56



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #56

Total Pervious Area: 10.56
Total Impervious Area: 0

Mitigated Landuse Totals for POC #56

Total Pervious Area: 10.56
Total Impervious Area: 0

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #56

Return Period	Flow(cfs)
2 year	2.083085
5 year	3.075224
10 year	3.685817
25 year	4.398929
50 year	4.889026
100 year	5.346327

Flow Frequency Return Periods for Mitigated. POC #56

Return Period	Flow(cfs)
2 year	2.083085
5 year	3.075224
10 year	3.685817
25 year	4.398929
50 year	4.889026
100 year	5.346327

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #56

Year	Predeveloped	Mitigated
1956	2.803	2.803
1957	3.468	3.468
1958	2.172	2.172
1959	1.868	1.868
1960	2.320	2.320
1961	1.562	1.562
1962	4.243	4.243
1963	4.059	4.059
1964	1.918	1.918
1965	2.839	2.839
1966	2.560	2.560

1967	1.165	1.165
1968	2.218	2.218
1969	4.689	4.689
1970	1.324	1.324
1971	3.627	3.627
1972	3.821	3.821
1973	3.070	3.070
1974	3.158	3.158
1975	1.853	1.853
1976	2.982	2.982
1977	1.209	1.209
1978	3.574	3.574
1979	2.128	2.128
1980	1.957	1.957
1981	2.840	2.840
1982	2.179	2.179
1983	2.665	2.665
1984	1.815	1.815
1985	0.880	0.880
1986	2.687	2.687
1987	1.567	1.567
1988	2.514	2.514
1989	1.636	1.636
1990	3.616	3.616
1991	2.937	2.937
1992	1.061	1.061
1993	0.854	0.854
1994	1.685	1.685
1995	1.171	1.171
1996	0.727	0.727
1997	2.599	2.599
1998	0.943	0.943
1999	1.579	1.579
2000	1.635	1.635
2001	0.486	0.486
2002	1.330	1.330
2003	3.814	3.814
2004	2.177	2.177
2005	1.516	1.516
2006	2.559	2.559
2007	2.634	2.634
2008	0.909	0.909
2009	1.162	1.162

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #56

Rank	Predeveloped	Mitigated
1	4.6895	4.6895
2	4.2426	4.2426
3	4.0588	4.0588
4	3.8209	3.8209
5	3.8144	3.8144
6	3.6268	3.6268
7	3.6155	3.6155
8	3.5744	3.5744
9	3.4678	3.4678
10	3.1584	3.1584
11	3.0704	3.0704

12	2.9820	2.9820
13	2.9372	2.9372
14	2.8403	2.8403
15	2.8387	2.8387
16	2.8028	2.8028
17	2.6870	2.6870
18	2.6648	2.6648
19	2.6344	2.6344
20	2.5994	2.5994
21	2.5601	2.5601
22	2.5593	2.5593
23	2.5140	2.5140
24	2.3195	2.3195
25	2.2177	2.2177
26	2.1789	2.1789
27	2.1774	2.1774
28	2.1719	2.1719
29	2.1280	2.1280
30	1.9573	1.9573
31	1.9175	1.9175
32	1.8683	1.8683
33	1.8532	1.8532
34	1.8153	1.8153
35	1.6854	1.6854
36	1.6360	1.6360
37	1.6347	1.6347
38	1.5793	1.5793
39	1.5674	1.5674
40	1.5623	1.5623
41	1.5156	1.5156
42	1.3296	1.3296
43	1.3238	1.3238
44	1.2093	1.2093
45	1.1707	1.1707
46	1.1648	1.1648
47	1.1618	1.1618
48	1.0607	1.0607
49	0.9429	0.9429
50	0.9093	0.9093
51	0.8798	0.8798
52	0.8539	0.8539
53	0.7270	0.7270
54	0.4862	0.4862

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.0415	2119	2119	100	Pass
1.0804	1806	1806	100	Pass
1.1193	1505	1505	100	Pass
1.1581	1246	1246	100	Pass
1.1970	1061	1061	100	Pass
1.2359	879	879	100	Pass
1.2747	694	694	100	Pass
1.3136	551	551	100	Pass
1.3525	444	444	100	Pass
1.3913	379	379	100	Pass
1.4302	315	315	100	Pass
1.4690	266	266	100	Pass
1.5079	226	226	100	Pass
1.5468	192	192	100	Pass
1.5856	155	155	100	Pass
1.6245	137	137	100	Pass
1.6634	116	116	100	Pass
1.7022	107	107	100	Pass
1.7411	103	103	100	Pass
1.7799	97	97	100	Pass
1.8188	85	85	100	Pass
1.8577	79	79	100	Pass
1.8965	75	75	100	Pass
1.9354	70	70	100	Pass
1.9743	64	64	100	Pass
2.0131	62	62	100	Pass
2.0520	58	58	100	Pass
2.0909	56	56	100	Pass
2.1297	54	54	100	Pass
2.1686	54	54	100	Pass
2.2074	51	51	100	Pass
2.2463	45	45	100	Pass
2.2852	43	43	100	Pass
2.3240	41	41	100	Pass
2.3629	39	39	100	Pass
2.4018	38	38	100	Pass
2.4406	36	36	100	Pass
2.4795	36	36	100	Pass
2.5184	35	35	100	Pass
2.5572	35	35	100	Pass
2.5961	31	31	100	Pass
2.6349	29	29	100	Pass
2.6738	27	27	100	Pass
2.7127	26	26	100	Pass
2.7515	23	23	100	Pass
2.7904	23	23	100	Pass
2.8293	21	21	100	Pass
2.8681	17	17	100	Pass
2.9070	16	16	100	Pass
2.9459	15	15	100	Pass
2.9847	14	14	100	Pass
3.0236	14	14	100	Pass
3.0624	14	14	100	Pass

3.1013	12	12	100	Pass
3.1402	12	12	100	Pass
3.1790	11	11	100	Pass
3.2179	11	11	100	Pass
3.2568	11	11	100	Pass
3.2956	11	11	100	Pass
3.3345	11	11	100	Pass
3.3734	11	11	100	Pass
3.4122	10	10	100	Pass
3.4511	10	10	100	Pass
3.4899	9	9	100	Pass
3.5288	9	9	100	Pass
3.5677	9	9	100	Pass
3.6065	8	8	100	Pass
3.6454	5	5	100	Pass
3.6843	5	5	100	Pass
3.7231	5	5	100	Pass
3.7620	5	5	100	Pass
3.8008	5	5	100	Pass
3.8397	3	3	100	Pass
3.8786	3	3	100	Pass
3.9174	3	3	100	Pass
3.9563	3	3	100	Pass
3.9952	3	3	100	Pass
4.0340	3	3	100	Pass
4.0729	2	2	100	Pass
4.1118	2	2	100	Pass
4.1506	2	2	100	Pass
4.1895	2	2	100	Pass
4.2283	2	2	100	Pass
4.2672	1	1	100	Pass
4.3061	1	1	100	Pass
4.3449	1	1	100	Pass
4.3838	1	1	100	Pass
4.4227	1	1	100	Pass
4.4615	1	1	100	Pass
4.5004	1	1	100	Pass
4.5393	1	1	100	Pass
4.5781	1	1	100	Pass
4.6170	1	1	100	Pass
4.6558	1	1	100	Pass
4.6947	0	0	100	Pass
4.7336	0	0	0	Pass
4.7724	0	0	0	Pass
4.8113	0	0	0	Pass
4.8502	0	0	0	Pass
4.8890	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #56

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

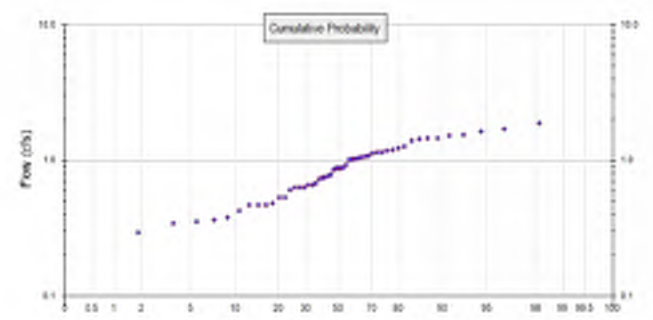
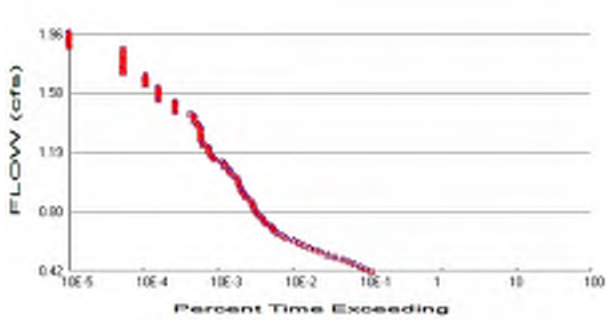
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 57



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #57

Total Pervious Area: 4.24
Total Impervious Area: 0

Mitigated Landuse Totals for POC #57

Total Pervious Area: 4.24
Total Impervious Area: 0

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #57

Return Period	Flow(cfs)
2 year	0.83562
5 year	1.233663
10 year	1.478637
25 year	1.764749
50 year	1.961386
100 year	2.144866

Flow Frequency Return Periods for Mitigated. POC #57

Return Period	Flow(cfs)
2 year	0.83562
5 year	1.233663
10 year	1.478637
25 year	1.764749
50 year	1.961386
100 year	2.144866

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #57

Year	Predeveloped	Mitigated
1956	1.124	1.124
1957	1.391	1.391
1958	0.871	0.871
1959	0.749	0.749
1960	0.930	0.930
1961	0.626	0.626
1962	1.702	1.702
1963	1.629	1.629
1964	0.769	0.769
1965	1.139	1.139
1966	1.027	1.027

1967	0.467	0.467
1968	0.889	0.889
1969	1.883	1.883
1970	0.531	0.531
1971	1.455	1.455
1972	1.533	1.533
1973	1.232	1.232
1974	1.267	1.267
1975	0.744	0.744
1976	1.197	1.197
1977	0.485	0.485
1978	1.434	1.434
1979	0.854	0.854
1980	0.786	0.786
1981	1.140	1.140
1982	0.874	0.874
1983	1.069	1.069
1984	0.729	0.729
1985	0.353	0.353
1986	1.078	1.078
1987	0.629	0.629
1988	1.008	1.008
1989	0.656	0.656
1990	1.450	1.450
1991	1.179	1.179
1992	0.425	0.425
1993	0.342	0.342
1994	0.676	0.676
1995	0.470	0.470
1996	0.291	0.291
1997	1.043	1.043
1998	0.379	0.379
1999	0.633	0.633
2000	0.656	0.656
2001	0.195	0.195
2002	0.533	0.533
2003	1.530	1.530
2004	0.873	0.873
2005	0.608	0.608
2006	1.027	1.027
2007	1.056	1.056
2008	0.365	0.365
2009	0.466	0.466

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #57

Rank	Predeveloped	Mitigated
1	1.8827	1.8827
2	1.7021	1.7021
3	1.6286	1.6286
4	1.5330	1.5330
5	1.5301	1.5301
6	1.4548	1.4548
7	1.4504	1.4504
8	1.4340	1.4340
9	1.3914	1.3914
10	1.2672	1.2672
11	1.2321	1.2321

12	1.1965	1.1965
13	1.1791	1.1791
14	1.1398	1.1398
15	1.1388	1.1388
16	1.1242	1.1242
17	1.0779	1.0779
18	1.0693	1.0693
19	1.0563	1.0563
20	1.0431	1.0431
21	1.0267	1.0267
22	1.0267	1.0267
23	1.0084	1.0084
24	0.9300	0.9300
25	0.8893	0.8893
26	0.8736	0.8736
27	0.8726	0.8726
28	0.8714	0.8714
29	0.8535	0.8535
30	0.7857	0.7857
31	0.7691	0.7691
32	0.7488	0.7488
33	0.7437	0.7437
34	0.7285	0.7285
35	0.6762	0.6762
36	0.6558	0.6558
37	0.6557	0.6557
38	0.6334	0.6334
39	0.6286	0.6286
40	0.6264	0.6264
41	0.6080	0.6080
42	0.5330	0.5330
43	0.5309	0.5309
44	0.4847	0.4847
45	0.4697	0.4697
46	0.4671	0.4671
47	0.4665	0.4665
48	0.4253	0.4253
49	0.3786	0.3786
50	0.3649	0.3649
51	0.3531	0.3531
52	0.3425	0.3425
53	0.2912	0.2912
54	0.1952	0.1952

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4178	2147	2147	100	Pass
0.4334	1814	1814	100	Pass
0.4490	1531	1531	100	Pass
0.4646	1257	1257	100	Pass
0.4802	1065	1065	100	Pass
0.4958	887	887	100	Pass
0.5114	698	698	100	Pass
0.5270	556	556	100	Pass
0.5425	449	449	100	Pass
0.5581	380	380	100	Pass
0.5737	319	319	100	Pass
0.5893	267	267	100	Pass
0.6049	230	230	100	Pass
0.6205	194	194	100	Pass
0.6361	154	154	100	Pass
0.6517	138	138	100	Pass
0.6673	118	118	100	Pass
0.6829	107	107	100	Pass
0.6985	103	103	100	Pass
0.7141	97	97	100	Pass
0.7296	85	85	100	Pass
0.7452	79	79	100	Pass
0.7608	75	75	100	Pass
0.7764	70	70	100	Pass
0.7920	64	64	100	Pass
0.8076	62	62	100	Pass
0.8232	58	58	100	Pass
0.8388	57	57	100	Pass
0.8544	54	54	100	Pass
0.8700	54	54	100	Pass
0.8856	51	51	100	Pass
0.9012	45	45	100	Pass
0.9167	43	43	100	Pass
0.9323	41	41	100	Pass
0.9479	39	39	100	Pass
0.9635	38	38	100	Pass
0.9791	36	36	100	Pass
0.9947	36	36	100	Pass
1.0103	35	35	100	Pass
1.0259	35	35	100	Pass
1.0415	31	31	100	Pass
1.0571	28	28	100	Pass
1.0727	27	27	100	Pass
1.0883	26	26	100	Pass
1.1038	23	23	100	Pass
1.1194	23	23	100	Pass
1.1350	21	21	100	Pass
1.1506	17	17	100	Pass
1.1662	16	16	100	Pass
1.1818	15	15	100	Pass
1.1974	14	14	100	Pass
1.2130	14	14	100	Pass
1.2286	14	14	100	Pass

1.2442	12	12	100	Pass
1.2598	12	12	100	Pass
1.2754	11	11	100	Pass
1.2909	11	11	100	Pass
1.3065	11	11	100	Pass
1.3221	11	11	100	Pass
1.3377	11	11	100	Pass
1.3533	11	11	100	Pass
1.3689	10	10	100	Pass
1.3845	10	10	100	Pass
1.4001	9	9	100	Pass
1.4157	9	9	100	Pass
1.4313	9	9	100	Pass
1.4469	8	8	100	Pass
1.4625	5	5	100	Pass
1.4780	5	5	100	Pass
1.4936	5	5	100	Pass
1.5092	5	5	100	Pass
1.5248	5	5	100	Pass
1.5404	3	3	100	Pass
1.5560	3	3	100	Pass
1.5716	3	3	100	Pass
1.5872	3	3	100	Pass
1.6028	3	3	100	Pass
1.6184	3	3	100	Pass
1.6340	2	2	100	Pass
1.6496	2	2	100	Pass
1.6651	2	2	100	Pass
1.6807	2	2	100	Pass
1.6963	2	2	100	Pass
1.7119	1	1	100	Pass
1.7275	1	1	100	Pass
1.7431	1	1	100	Pass
1.7587	1	1	100	Pass
1.7743	1	1	100	Pass
1.7899	1	1	100	Pass
1.8055	1	1	100	Pass
1.8211	1	1	100	Pass
1.8367	1	1	100	Pass
1.8522	1	1	100	Pass
1.8678	1	1	100	Pass
1.8834	0	0	100	Pass
1.8990	0	0	0	Pass
1.9146	0	0	0	Pass
1.9302	0	0	0	Pass
1.9458	0	0	0	Pass
1.9614	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #57

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

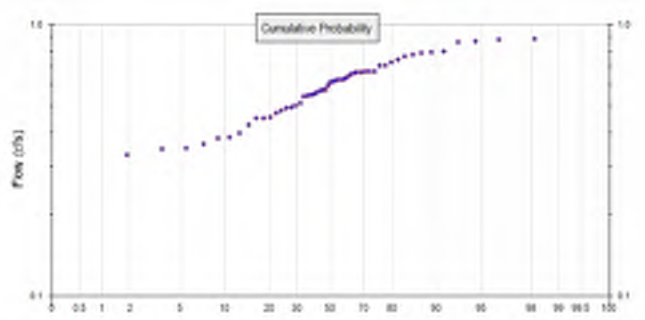
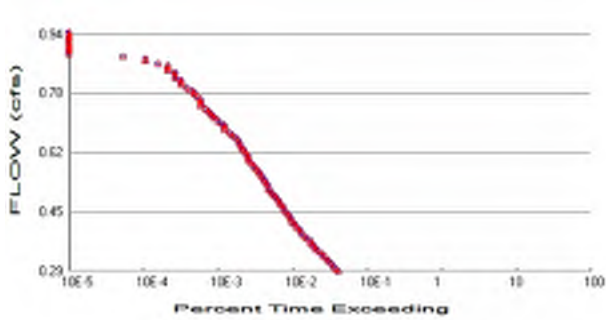
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 58



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #58

Total Pervious Area: 0.54
Total Impervious Area: 0.5

Mitigated Landuse Totals for POC #58

Total Pervious Area: 0.54
Total Impervious Area: 0.5

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #58

Return Period	Flow(cfs)
2 year	0.584226
5 year	0.72349
10 year	0.801148
25 year	0.88679
50 year	0.943304
100 year	0.994711

Flow Frequency Return Periods for Mitigated. POC #58

Return Period	Flow(cfs)
2 year	0.584226
5 year	0.72349
10 year	0.801148
25 year	0.88679
50 year	0.943304
100 year	0.994711

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #58

Year	Predeveloped	Mitigated
1956	0.671	0.671
1957	0.787	0.787
1958	0.572	0.572
1959	0.626	0.626
1960	0.663	0.663
1961	0.452	0.452
1962	0.880	0.880
1963	0.795	0.795
1964	0.641	0.641
1965	0.668	0.668
1966	0.674	0.674

1967	0.381	0.381
1968	0.632	0.632
1969	0.619	0.619
1970	0.503	0.503
1971	0.886	0.886
1972	0.767	0.767
1973	0.656	0.656
1974	0.673	0.673
1975	0.565	0.565
1976	0.709	0.709
1977	0.484	0.484
1978	0.870	0.870
1979	0.556	0.556
1980	0.491	0.491
1981	0.629	0.629
1982	0.729	0.729
1983	0.578	0.578
1984	0.552	0.552
1985	0.349	0.349
1986	0.666	0.666
1987	0.454	0.454
1988	0.710	0.710
1989	0.577	0.577
1990	0.800	0.800
1991	0.473	0.473
1992	0.352	0.352
1993	0.384	0.384
1994	0.547	0.547
1995	0.427	0.427
1996	0.545	0.545
1997	0.624	0.624
1998	0.364	0.364
1999	0.495	0.495
2000	0.457	0.457
2001	0.399	0.399
2002	0.515	0.515
2003	0.861	0.861
2004	0.777	0.777
2005	0.595	0.595
2006	0.613	0.613
2007	0.745	0.745
2008	0.331	0.331
2009	0.303	0.303

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #58

Rank	Predeveloped	Mitigated
1	0.8860	0.8860
2	0.8803	0.8803
3	0.8695	0.8695
4	0.8608	0.8608
5	0.8000	0.8000
6	0.7946	0.7946
7	0.7874	0.7874
8	0.7767	0.7767
9	0.7665	0.7665
10	0.7445	0.7445
11	0.7287	0.7287

12	0.7097	0.7097
13	0.7090	0.7090
14	0.6740	0.6740
15	0.6735	0.6735
16	0.6712	0.6712
17	0.6676	0.6676
18	0.6665	0.6665
19	0.6628	0.6628
20	0.6564	0.6564
21	0.6407	0.6407
22	0.6317	0.6317
23	0.6288	0.6288
24	0.6262	0.6262
25	0.6238	0.6238
26	0.6192	0.6192
27	0.6127	0.6127
28	0.5952	0.5952
29	0.5778	0.5778
30	0.5769	0.5769
31	0.5725	0.5725
32	0.5654	0.5654
33	0.5564	0.5564
34	0.5516	0.5516
35	0.5470	0.5470
36	0.5448	0.5448
37	0.5147	0.5147
38	0.5029	0.5029
39	0.4948	0.4948
40	0.4914	0.4914
41	0.4838	0.4838
42	0.4732	0.4732
43	0.4574	0.4574
44	0.4540	0.4540
45	0.4518	0.4518
46	0.4275	0.4275
47	0.3994	0.3994
48	0.3835	0.3835
49	0.3810	0.3810
50	0.3635	0.3635
51	0.3515	0.3515
52	0.3493	0.3493
53	0.3314	0.3314
54	0.3033	0.3033

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2921	770	770	100	Pass
0.2987	726	726	100	Pass
0.3053	672	672	100	Pass
0.3118	635	635	100	Pass
0.3184	586	586	100	Pass
0.3250	550	550	100	Pass
0.3316	513	513	100	Pass
0.3382	474	474	100	Pass
0.3447	438	438	100	Pass
0.3513	396	396	100	Pass
0.3579	377	377	100	Pass
0.3645	357	357	100	Pass
0.3710	334	334	100	Pass
0.3776	320	320	100	Pass
0.3842	291	291	100	Pass
0.3908	269	269	100	Pass
0.3974	248	248	100	Pass
0.4039	238	238	100	Pass
0.4105	218	218	100	Pass
0.4171	209	209	100	Pass
0.4237	199	199	100	Pass
0.4302	186	186	100	Pass
0.4368	178	178	100	Pass
0.4434	171	171	100	Pass
0.4500	163	163	100	Pass
0.4566	152	152	100	Pass
0.4631	145	145	100	Pass
0.4697	141	141	100	Pass
0.4763	130	130	100	Pass
0.4829	126	126	100	Pass
0.4894	120	120	100	Pass
0.4960	112	112	100	Pass
0.5026	104	104	100	Pass
0.5092	98	98	100	Pass
0.5158	93	93	100	Pass
0.5223	90	90	100	Pass
0.5289	88	88	100	Pass
0.5355	83	83	100	Pass
0.5421	79	79	100	Pass
0.5486	76	76	100	Pass
0.5552	73	73	100	Pass
0.5618	68	68	100	Pass
0.5684	65	65	100	Pass
0.5750	61	61	100	Pass
0.5815	57	57	100	Pass
0.5881	53	53	100	Pass
0.5947	49	49	100	Pass
0.6013	48	48	100	Pass
0.6078	48	48	100	Pass
0.6144	46	46	100	Pass
0.6210	43	43	100	Pass
0.6276	41	41	100	Pass
0.6342	38	38	100	Pass

0.6407	38	38	100	Pass
0.6473	36	36	100	Pass
0.6539	35	35	100	Pass
0.6605	32	32	100	Pass
0.6670	29	29	100	Pass
0.6736	27	27	100	Pass
0.6802	23	23	100	Pass
0.6868	23	23	100	Pass
0.6934	23	23	100	Pass
0.6999	21	21	100	Pass
0.7065	19	19	100	Pass
0.7131	17	17	100	Pass
0.7197	16	16	100	Pass
0.7262	15	15	100	Pass
0.7328	14	14	100	Pass
0.7394	13	13	100	Pass
0.7460	11	11	100	Pass
0.7526	11	11	100	Pass
0.7591	11	11	100	Pass
0.7657	11	11	100	Pass
0.7723	10	10	100	Pass
0.7789	9	9	100	Pass
0.7854	9	9	100	Pass
0.7920	8	8	100	Pass
0.7986	7	7	100	Pass
0.8052	6	6	100	Pass
0.8118	6	6	100	Pass
0.8183	6	6	100	Pass
0.8249	5	5	100	Pass
0.8315	5	5	100	Pass
0.8381	5	5	100	Pass
0.8446	4	4	100	Pass
0.8512	4	4	100	Pass
0.8578	4	4	100	Pass
0.8644	3	3	100	Pass
0.8709	2	2	100	Pass
0.8775	2	2	100	Pass
0.8841	1	1	100	Pass
0.8907	0	0	100	Pass
0.8973	0	0	0	Pass
0.9038	0	0	0	Pass
0.9104	0	0	0	Pass
0.9170	0	0	0	Pass
0.9236	0	0	0	Pass
0.9301	0	0	0	Pass
0.9367	0	0	0	Pass
0.9433	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #58

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

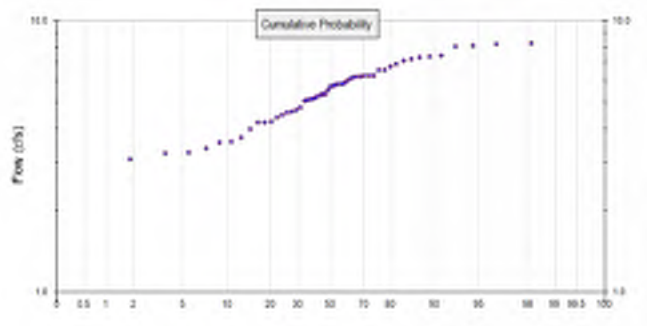
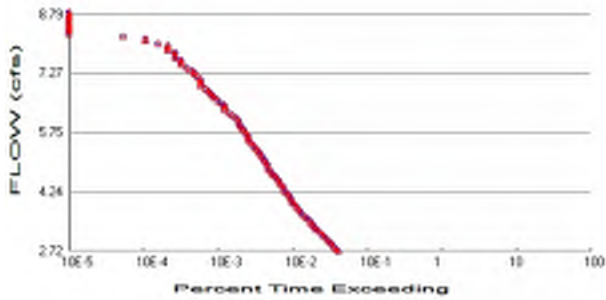
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 59



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #59

Total Pervious Area: 5.04
 Total Impervious Area: 4.65

Mitigated Landuse Totals for POC #59

Total Pervious Area: 5.04
 Total Impervious Area: 4.65

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #59

Return Period	Flow(cfs)
2 year	5.440572
5 year	6.738369
10 year	7.462126
25 year	8.260349
50 year	8.787114
100 year	9.266297

Flow Frequency Return Periods for Mitigated. POC #59

Return Period	Flow(cfs)
2 year	5.440572
5 year	6.738369
10 year	7.462126
25 year	8.260349
50 year	8.787114
100 year	9.266297

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #59

Year	Predeveloped	Mitigated
1956	6.252	6.252
1957	7.333	7.333
1958	5.331	5.331
1959	5.832	5.832
1960	6.174	6.174
1961	4.208	4.208
1962	8.200	8.200
1963	7.401	7.401
1964	5.966	5.966
1965	6.218	6.218
1966	6.278	6.278

1967	3.547	3.547
1968	5.883	5.883
1969	5.768	5.768
1970	4.682	4.682
1971	8.253	8.253
1972	7.140	7.140
1973	6.113	6.113
1974	6.273	6.273
1975	5.266	5.266
1976	6.603	6.603
1977	4.505	4.505
1978	8.098	8.098
1979	5.182	5.182
1980	4.577	4.577
1981	5.856	5.856
1982	6.786	6.786
1983	5.381	5.381
1984	5.137	5.137
1985	3.251	3.251
1986	6.207	6.207
1987	4.228	4.228
1988	6.610	6.610
1989	5.372	5.372
1990	7.451	7.451
1991	4.407	4.407
1992	3.273	3.273
1993	3.570	3.570
1994	5.094	5.094
1995	3.978	3.978
1996	5.071	5.071
1997	5.809	5.809
1998	3.385	3.385
1999	4.608	4.608
2000	4.259	4.259
2001	3.718	3.718
2002	4.788	4.788
2003	8.018	8.018
2004	7.234	7.234
2005	5.544	5.544
2006	5.706	5.706
2007	6.935	6.935
2008	3.085	3.085
2009	2.823	2.823

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #59

Rank	Predeveloped	Mitigated
1	8.2526	8.2526
2	8.1999	8.1999
3	8.0976	8.0976
4	8.0179	8.0179
5	7.4513	7.4513
6	7.4011	7.4011
7	7.3330	7.3330
8	7.2341	7.2341
9	7.1401	7.1401
10	6.9347	6.9347
11	6.7858	6.7858

12	6.6100	6.6100
13	6.6031	6.6031
14	6.2776	6.2776
15	6.2729	6.2729
16	6.2522	6.2522
17	6.2182	6.2182
18	6.2070	6.2070
19	6.1738	6.1738
20	6.1132	6.1132
21	5.9662	5.9662
22	5.8832	5.8832
23	5.8558	5.8558
24	5.8322	5.8322
25	5.8091	5.8091
26	5.7676	5.7676
27	5.7065	5.7065
28	5.5436	5.5436
29	5.3810	5.3810
30	5.3724	5.3724
31	5.3308	5.3308
32	5.2661	5.2661
33	5.1818	5.1818
34	5.1372	5.1372
35	5.0940	5.0940
36	5.0707	5.0707
37	4.7882	4.7882
38	4.6823	4.6823
39	4.6079	4.6079
40	4.5769	4.5769
41	4.5052	4.5052
42	4.4067	4.4067
43	4.2590	4.2590
44	4.2282	4.2282
45	4.2081	4.2081
46	3.9782	3.9782
47	3.7181	3.7181
48	3.5702	3.5702
49	3.5471	3.5471
50	3.3845	3.3845
51	3.2726	3.2726
52	3.2511	3.2511
53	3.0852	3.0852
54	2.8229	2.8229

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
2.7203	769	769	100	Pass
2.7816	721	721	100	Pass
2.8428	671	671	100	Pass
2.9041	628	628	100	Pass
2.9654	584	584	100	Pass
3.0267	550	550	100	Pass
3.0880	511	511	100	Pass
3.1493	473	473	100	Pass
3.2105	432	432	100	Pass
3.2718	395	395	100	Pass
3.3331	375	375	100	Pass
3.3944	356	356	100	Pass
3.4557	334	334	100	Pass
3.5169	318	318	100	Pass
3.5782	291	291	100	Pass
3.6395	269	269	100	Pass
3.7008	247	247	100	Pass
3.7621	234	234	100	Pass
3.8233	217	217	100	Pass
3.8846	209	209	100	Pass
3.9459	197	197	100	Pass
4.0072	186	186	100	Pass
4.0685	178	178	100	Pass
4.1298	171	171	100	Pass
4.1910	163	163	100	Pass
4.2523	151	151	100	Pass
4.3136	145	145	100	Pass
4.3749	140	140	100	Pass
4.4362	130	130	100	Pass
4.4974	126	126	100	Pass
4.5587	120	120	100	Pass
4.6200	112	112	100	Pass
4.6813	103	103	100	Pass
4.7426	98	98	100	Pass
4.8038	93	93	100	Pass
4.8651	89	89	100	Pass
4.9264	88	88	100	Pass
4.9877	83	83	100	Pass
5.0490	79	79	100	Pass
5.1102	76	76	100	Pass
5.1715	73	73	100	Pass
5.2328	68	68	100	Pass
5.2941	65	65	100	Pass
5.3554	61	61	100	Pass
5.4167	57	57	100	Pass
5.4779	53	53	100	Pass
5.5392	49	49	100	Pass
5.6005	48	48	100	Pass
5.6618	48	48	100	Pass
5.7231	46	46	100	Pass
5.7843	43	43	100	Pass
5.8456	41	41	100	Pass
5.9069	38	38	100	Pass

5.9682	37	37	100	Pass
6.0295	36	36	100	Pass
6.0907	35	35	100	Pass
6.1520	32	32	100	Pass
6.2133	29	29	100	Pass
6.2746	26	26	100	Pass
6.3359	23	23	100	Pass
6.3972	23	23	100	Pass
6.4584	23	23	100	Pass
6.5197	21	21	100	Pass
6.5810	19	19	100	Pass
6.6423	17	17	100	Pass
6.7036	16	16	100	Pass
6.7648	15	15	100	Pass
6.8261	14	14	100	Pass
6.8874	13	13	100	Pass
6.9487	11	11	100	Pass
7.0100	11	11	100	Pass
7.0712	11	11	100	Pass
7.1325	11	11	100	Pass
7.1938	10	10	100	Pass
7.2551	9	9	100	Pass
7.3164	9	9	100	Pass
7.3776	8	8	100	Pass
7.4389	7	7	100	Pass
7.5002	6	6	100	Pass
7.5615	6	6	100	Pass
7.6228	6	6	100	Pass
7.6841	5	5	100	Pass
7.7453	5	5	100	Pass
7.8066	5	5	100	Pass
7.8679	4	4	100	Pass
7.9292	4	4	100	Pass
7.9905	4	4	100	Pass
8.0517	3	3	100	Pass
8.1130	2	2	100	Pass
8.1743	2	2	100	Pass
8.2356	1	1	100	Pass
8.2969	0	0	100	Pass
8.3581	0	0	0	Pass
8.4194	0	0	0	Pass
8.4807	0	0	0	Pass
8.5420	0	0	0	Pass
8.6033	0	0	0	Pass
8.6646	0	0	0	Pass
8.7258	0	0	0	Pass
8.7871	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #59

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

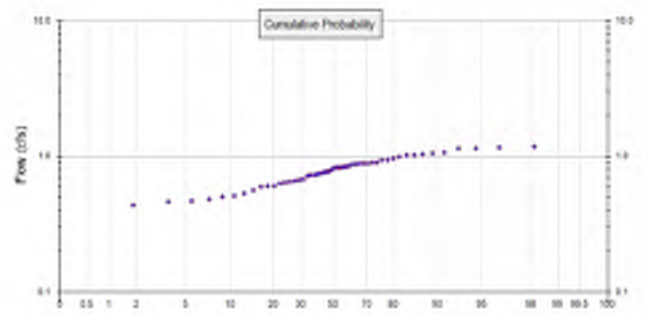
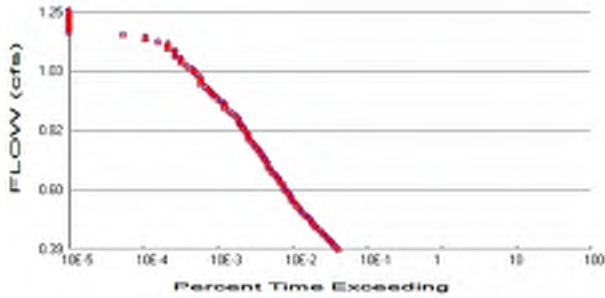
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 60



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #60

Total Pervious Area: 0.72
Total Impervious Area: 0.66

Mitigated Landuse Totals for POC #60

Total Pervious Area: 0.72
Total Impervious Area: 0.66

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #60

Return Period	Flow(cfs)
2 year	0.774087
5 year	0.958972
10 year	1.062097
25 year	1.175845
50 year	1.250918
100 year	1.319213

Flow Frequency Return Periods for Mitigated. POC #60

Return Period	Flow(cfs)
2 year	0.774087
5 year	0.958972
10 year	1.062097
25 year	1.175845
50 year	1.250918
100 year	1.319213

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #60

Year	Predeveloped	Mitigated
1956	0.890	0.890
1957	1.043	1.043
1958	0.758	0.758
1959	0.830	0.830
1960	0.879	0.879
1961	0.599	0.599
1962	1.167	1.167
1963	1.053	1.053
1964	0.849	0.849
1965	0.885	0.885
1966	0.894	0.894

1967	0.505	0.505
1968	0.837	0.837
1969	0.821	0.821
1970	0.666	0.666
1971	1.175	1.175
1972	1.016	1.016
1973	0.870	0.870
1974	0.893	0.893
1975	0.749	0.749
1976	0.940	0.940
1977	0.641	0.641
1978	1.152	1.152
1979	0.737	0.737
1980	0.651	0.651
1981	0.833	0.833
1982	0.965	0.965
1983	0.766	0.766
1984	0.731	0.731
1985	0.462	0.462
1986	0.883	0.883
1987	0.602	0.602
1988	0.941	0.941
1989	0.764	0.764
1990	1.061	1.061
1991	0.627	0.627
1992	0.465	0.465
1993	0.508	0.508
1994	0.725	0.725
1995	0.565	0.565
1996	0.721	0.721
1997	0.826	0.826
1998	0.481	0.481
1999	0.656	0.656
2000	0.606	0.606
2001	0.529	0.529
2002	0.680	0.680
2003	1.141	1.141
2004	1.030	1.030
2005	0.789	0.789
2006	0.812	0.812
2007	0.987	0.987
2008	0.439	0.439
2009	0.401	0.401

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #60

Rank	Predeveloped	Mitigated
1	1.1746	1.1746
2	1.1672	1.1672
3	1.1522	1.1522
4	1.1413	1.1413
5	1.0606	1.0606
6	1.0534	1.0534
7	1.0435	1.0435
8	1.0296	1.0296
9	1.0164	1.0164
10	0.9870	0.9870
11	0.9655	0.9655

12	0.9407	0.9407
13	0.9397	0.9397
14	0.8935	0.8935
15	0.8929	0.8929
16	0.8900	0.8900
17	0.8849	0.8849
18	0.8833	0.8833
19	0.8788	0.8788
20	0.8698	0.8698
21	0.8489	0.8489
22	0.8373	0.8373
23	0.8331	0.8331
24	0.8301	0.8301
25	0.8265	0.8265
26	0.8209	0.8209
27	0.8121	0.8121
28	0.7889	0.7889
29	0.7656	0.7656
30	0.7644	0.7644
31	0.7583	0.7583
32	0.7494	0.7494
33	0.7374	0.7374
34	0.7311	0.7311
35	0.7248	0.7248
36	0.7208	0.7208
37	0.6800	0.6800
38	0.6659	0.6659
39	0.6556	0.6556
40	0.6513	0.6513
41	0.6410	0.6410
42	0.6270	0.6270
43	0.6060	0.6060
44	0.6016	0.6016
45	0.5989	0.5989
46	0.5653	0.5653
47	0.5286	0.5286
48	0.5076	0.5076
49	0.5046	0.5046
50	0.4813	0.4813
51	0.4654	0.4654
52	0.4622	0.4622
53	0.4387	0.4387
54	0.4014	0.4014

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3870	768	768	100	Pass
0.3958	725	725	100	Pass
0.4045	672	672	100	Pass
0.4132	628	628	100	Pass
0.4219	586	586	100	Pass
0.4307	551	551	100	Pass
0.4394	511	511	100	Pass
0.4481	473	473	100	Pass
0.4569	437	437	100	Pass
0.4656	395	395	100	Pass
0.4743	375	375	100	Pass
0.4830	354	354	100	Pass
0.4918	335	335	100	Pass
0.5005	318	318	100	Pass
0.5092	291	291	100	Pass
0.5179	269	269	100	Pass
0.5267	248	248	100	Pass
0.5354	235	235	100	Pass
0.5441	216	216	100	Pass
0.5528	209	209	100	Pass
0.5616	197	197	100	Pass
0.5703	186	186	100	Pass
0.5790	178	178	100	Pass
0.5877	171	171	100	Pass
0.5965	163	163	100	Pass
0.6052	151	151	100	Pass
0.6139	145	145	100	Pass
0.6226	140	140	100	Pass
0.6314	130	130	100	Pass
0.6401	126	126	100	Pass
0.6488	120	120	100	Pass
0.6575	112	112	100	Pass
0.6663	102	102	100	Pass
0.6750	98	98	100	Pass
0.6837	93	93	100	Pass
0.6925	89	89	100	Pass
0.7012	88	88	100	Pass
0.7099	83	83	100	Pass
0.7186	79	79	100	Pass
0.7274	76	76	100	Pass
0.7361	73	73	100	Pass
0.7448	68	68	100	Pass
0.7535	65	65	100	Pass
0.7623	61	61	100	Pass
0.7710	57	57	100	Pass
0.7797	53	53	100	Pass
0.7884	49	49	100	Pass
0.7972	48	48	100	Pass
0.8059	48	48	100	Pass
0.8146	46	46	100	Pass
0.8233	43	43	100	Pass
0.8321	41	41	100	Pass
0.8408	38	38	100	Pass

0.8495	37	37	100	Pass
0.8582	36	36	100	Pass
0.8670	35	35	100	Pass
0.8757	32	32	100	Pass
0.8844	29	29	100	Pass
0.8932	26	26	100	Pass
0.9019	23	23	100	Pass
0.9106	23	23	100	Pass
0.9193	23	23	100	Pass
0.9281	21	21	100	Pass
0.9368	19	19	100	Pass
0.9455	17	17	100	Pass
0.9542	16	16	100	Pass
0.9630	15	15	100	Pass
0.9717	14	14	100	Pass
0.9804	13	13	100	Pass
0.9891	11	11	100	Pass
0.9979	11	11	100	Pass
1.0066	11	11	100	Pass
1.0153	11	11	100	Pass
1.0240	10	10	100	Pass
1.0328	9	9	100	Pass
1.0415	9	9	100	Pass
1.0502	8	8	100	Pass
1.0589	7	7	100	Pass
1.0677	6	6	100	Pass
1.0764	6	6	100	Pass
1.0851	6	6	100	Pass
1.0938	5	5	100	Pass
1.1026	5	5	100	Pass
1.1113	5	5	100	Pass
1.1200	4	4	100	Pass
1.1288	4	4	100	Pass
1.1375	4	4	100	Pass
1.1462	3	3	100	Pass
1.1549	2	2	100	Pass
1.1637	2	2	100	Pass
1.1724	1	1	100	Pass
1.1811	0	0	100	Pass
1.1898	0	0	0	Pass
1.1986	0	0	0	Pass
1.2073	0	0	0	Pass
1.2160	0	0	0	Pass
1.2247	0	0	0	Pass
1.2335	0	0	0	Pass
1.2422	0	0	0	Pass
1.2509	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #60

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

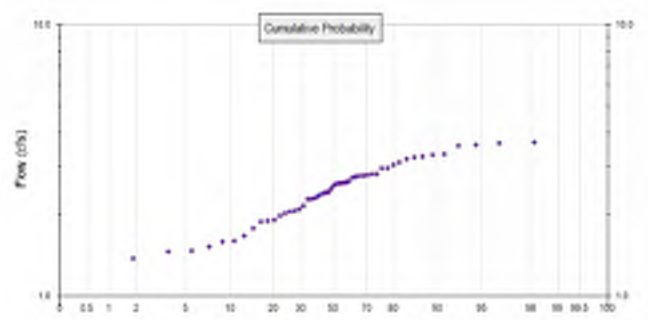
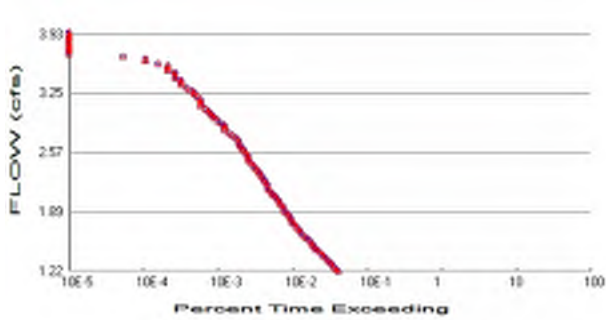
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 61



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #61

Total Pervious Area: 2.25
Total Impervious Area: 2.08

Mitigated Landuse Totals for POC #61

Total Pervious Area: 2.25
Total Impervious Area: 2.08

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #61

Return Period	Flow(cfs)
2 year	2.431833
5 year	3.011701
10 year	3.335065
25 year	3.691687
50 year	3.927023
100 year	4.141098

Flow Frequency Return Periods for Mitigated. POC #61

Return Period	Flow(cfs)
2 year	2.431833
5 year	3.011701
10 year	3.335065
25 year	3.691687
50 year	3.927023
100 year	4.141098

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #61

Year	Predeveloped	Mitigated
1956	2.794	2.794
1957	3.278	3.278
1958	2.383	2.383
1959	2.607	2.607
1960	2.759	2.759
1961	1.881	1.881
1962	3.665	3.665
1963	3.308	3.308
1964	2.667	2.667
1965	2.779	2.779
1966	2.806	2.806

1967	1.586	1.586
1968	2.630	2.630
1969	2.578	2.578
1970	2.093	2.093
1971	3.688	3.688
1972	3.191	3.191
1973	2.732	2.732
1974	2.804	2.804
1975	2.354	2.354
1976	2.951	2.951
1977	2.014	2.014
1978	3.619	3.619
1979	2.316	2.316
1980	2.046	2.046
1981	2.617	2.617
1982	3.033	3.033
1983	2.405	2.405
1984	2.296	2.296
1985	1.454	1.454
1986	2.774	2.774
1987	1.890	1.890
1988	2.954	2.954
1989	2.401	2.401
1990	3.330	3.330
1991	1.970	1.970
1992	1.463	1.463
1993	1.596	1.596
1994	2.277	2.277
1995	1.779	1.779
1996	2.267	2.267
1997	2.597	2.597
1998	1.513	1.513
1999	2.060	2.060
2000	1.904	1.904
2001	1.662	1.662
2002	2.141	2.141
2003	3.583	3.583
2004	3.233	3.233
2005	2.478	2.478
2006	2.551	2.551
2007	3.099	3.099
2008	1.379	1.379
2009	1.262	1.262

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #61

Rank	Predeveloped	Mitigated
1	3.6883	3.6883
2	3.6647	3.6647
3	3.6194	3.6194
4	3.5833	3.5833
5	3.3302	3.3302
6	3.3078	3.3078
7	3.2776	3.2776
8	3.2332	3.2332
9	3.1910	3.1910
10	3.0994	3.0994
11	3.0332	3.0332

12	2.9544	2.9544
13	2.9513	2.9513
14	2.8057	2.8057
15	2.8035	2.8035
16	2.7943	2.7943
17	2.7792	2.7792
18	2.7743	2.7743
19	2.7592	2.7592
20	2.7325	2.7325
21	2.6668	2.6668
22	2.6295	2.6295
23	2.6175	2.6175
24	2.6066	2.6066
25	2.5966	2.5966
26	2.5777	2.5777
27	2.5505	2.5505
28	2.4778	2.4778
29	2.4052	2.4052
30	2.4014	2.4014
31	2.3829	2.3829
32	2.3537	2.3537
33	2.3160	2.3160
34	2.2961	2.2961
35	2.2769	2.2769
36	2.2672	2.2672
37	2.1414	2.1414
38	2.0932	2.0932
39	2.0596	2.0596
40	2.0457	2.0457
41	2.0138	2.0138
42	1.9696	1.9696
43	1.9037	1.9037
44	1.8899	1.8899
45	1.8808	1.8808
46	1.7789	1.7789
47	1.6623	1.6623
48	1.5961	1.5961
49	1.5856	1.5856
50	1.5130	1.5130
51	1.4630	1.4630
52	1.4535	1.4535
53	1.3793	1.3793
54	1.2621	1.2621

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.2159	770	770	100	Pass
1.2433	721	721	100	Pass
1.2707	671	671	100	Pass
1.2981	628	628	100	Pass
1.3255	585	585	100	Pass
1.3528	550	550	100	Pass
1.3802	511	511	100	Pass
1.4076	474	474	100	Pass
1.4350	434	434	100	Pass
1.4624	395	395	100	Pass
1.4898	375	375	100	Pass
1.5172	356	356	100	Pass
1.5445	335	335	100	Pass
1.5719	318	318	100	Pass
1.5993	291	291	100	Pass
1.6267	269	269	100	Pass
1.6541	247	247	100	Pass
1.6815	235	235	100	Pass
1.7088	217	217	100	Pass
1.7362	209	209	100	Pass
1.7636	197	197	100	Pass
1.7910	186	186	100	Pass
1.8184	178	178	100	Pass
1.8458	171	171	100	Pass
1.8732	163	163	100	Pass
1.9005	151	151	100	Pass
1.9279	145	145	100	Pass
1.9553	140	140	100	Pass
1.9827	130	130	100	Pass
2.0101	126	126	100	Pass
2.0375	120	120	100	Pass
2.0648	112	112	100	Pass
2.0922	103	103	100	Pass
2.1196	98	98	100	Pass
2.1470	92	92	100	Pass
2.1744	89	89	100	Pass
2.2018	88	88	100	Pass
2.2292	83	83	100	Pass
2.2565	79	79	100	Pass
2.2839	76	76	100	Pass
2.3113	73	73	100	Pass
2.3387	68	68	100	Pass
2.3661	65	65	100	Pass
2.3935	61	61	100	Pass
2.4209	57	57	100	Pass
2.4482	53	53	100	Pass
2.4756	49	49	100	Pass
2.5030	48	48	100	Pass
2.5304	48	48	100	Pass
2.5578	46	46	100	Pass
2.5852	43	43	100	Pass
2.6125	41	41	100	Pass
2.6399	38	38	100	Pass

2.6673	37	37	100	Pass
2.6947	36	36	100	Pass
2.7221	35	35	100	Pass
2.7495	32	32	100	Pass
2.7769	29	29	100	Pass
2.8042	26	26	100	Pass
2.8316	23	23	100	Pass
2.8590	23	23	100	Pass
2.8864	23	23	100	Pass
2.9138	21	21	100	Pass
2.9412	19	19	100	Pass
2.9686	17	17	100	Pass
2.9959	16	16	100	Pass
3.0233	15	15	100	Pass
3.0507	14	14	100	Pass
3.0781	13	13	100	Pass
3.1055	11	11	100	Pass
3.1329	11	11	100	Pass
3.1602	11	11	100	Pass
3.1876	11	11	100	Pass
3.2150	10	10	100	Pass
3.2424	9	9	100	Pass
3.2698	9	9	100	Pass
3.2972	8	8	100	Pass
3.3246	7	7	100	Pass
3.3519	6	6	100	Pass
3.3793	6	6	100	Pass
3.4067	6	6	100	Pass
3.4341	5	5	100	Pass
3.4615	5	5	100	Pass
3.4889	5	5	100	Pass
3.5162	4	4	100	Pass
3.5436	4	4	100	Pass
3.5710	4	4	100	Pass
3.5984	3	3	100	Pass
3.6258	2	2	100	Pass
3.6532	2	2	100	Pass
3.6806	1	1	100	Pass
3.7079	0	0	100	Pass
3.7353	0	0	0	Pass
3.7627	0	0	0	Pass
3.7901	0	0	0	Pass
3.8175	0	0	0	Pass
3.8449	0	0	0	Pass
3.8723	0	0	0	Pass
3.8996	0	0	0	Pass
3.9270	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #61

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

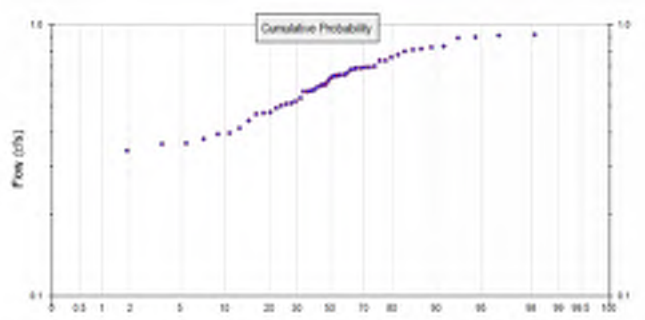
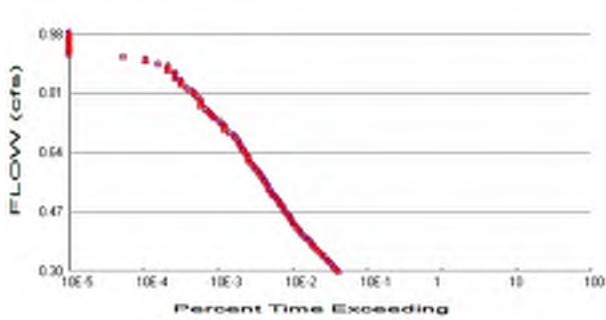
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 62



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #62

Total Pervious Area: 0.56
Total Impervious Area: 0.52

Mitigated Landuse Totals for POC #62

Total Pervious Area: 0.56
Total Impervious Area: 0.52

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #62

Return Period	Flow(cfs)
2 year	0.606948
5 year	0.751549
10 year	0.832176
25 year	0.921088
50 year	0.979758
100 year	1.033124

Flow Frequency Return Periods for Mitigated. POC #62

Return Period	Flow(cfs)
2 year	0.606948
5 year	0.751549
10 year	0.832176
25 year	0.921088
50 year	0.979758
100 year	1.033124

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #62

Year	Predeveloped	Mitigated
1956	0.697	0.697
1957	0.818	0.818
1958	0.595	0.595
1959	0.650	0.650
1960	0.688	0.688
1961	0.469	0.469
1962	0.914	0.914
1963	0.825	0.825
1964	0.666	0.666
1965	0.694	0.694
1966	0.700	0.700

1967	0.396	0.396
1968	0.656	0.656
1969	0.643	0.643
1970	0.523	0.523
1971	0.920	0.920
1972	0.796	0.796
1973	0.682	0.682
1974	0.700	0.700
1975	0.587	0.587
1976	0.736	0.736
1977	0.503	0.503
1978	0.903	0.903
1979	0.578	0.578
1980	0.511	0.511
1981	0.653	0.653
1982	0.757	0.757
1983	0.600	0.600
1984	0.573	0.573
1985	0.363	0.363
1986	0.692	0.692
1987	0.472	0.472
1988	0.737	0.737
1989	0.599	0.599
1990	0.831	0.831
1991	0.492	0.492
1992	0.365	0.365
1993	0.399	0.399
1994	0.568	0.568
1995	0.444	0.444
1996	0.566	0.566
1997	0.648	0.648
1998	0.378	0.378
1999	0.514	0.514
2000	0.475	0.475
2001	0.415	0.415
2002	0.535	0.535
2003	0.894	0.894
2004	0.807	0.807
2005	0.618	0.618
2006	0.636	0.636
2007	0.773	0.773
2008	0.344	0.344
2009	0.315	0.315

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #62

Rank	Predeveloped	Mitigated
1	0.9203	0.9203
2	0.9144	0.9144
3	0.9033	0.9033
4	0.8941	0.8941
5	0.8310	0.8310
6	0.8254	0.8254
7	0.8180	0.8180
8	0.8068	0.8068
9	0.7962	0.7962
10	0.7734	0.7734
11	0.7570	0.7570

12	0.7373	0.7373
13	0.7365	0.7365
14	0.7001	0.7001
15	0.6995	0.6995
16	0.6972	0.6972
17	0.6935	0.6935
18	0.6923	0.6923
19	0.6885	0.6885
20	0.6820	0.6820
21	0.6656	0.6656
22	0.6562	0.6562
23	0.6533	0.6533
24	0.6504	0.6504
25	0.6481	0.6481
26	0.6432	0.6432
27	0.6365	0.6365
28	0.6184	0.6184
29	0.6003	0.6003
30	0.5993	0.5993
31	0.5948	0.5948
32	0.5874	0.5874
33	0.5780	0.5780
34	0.5730	0.5730
35	0.5683	0.5683
36	0.5662	0.5662
37	0.5351	0.5351
38	0.5226	0.5226
39	0.5140	0.5140
40	0.5105	0.5105
41	0.5026	0.5026
42	0.4916	0.4916
43	0.4751	0.4751
44	0.4717	0.4717
45	0.4693	0.4693
46	0.4444	0.4444
47	0.4151	0.4151
48	0.3985	0.3985
49	0.3958	0.3958
50	0.3777	0.3777
51	0.3653	0.3653
52	0.3630	0.3630
53	0.3444	0.3444
54	0.3151	0.3151

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3035	773	773	100	Pass
0.3103	724	724	100	Pass
0.3171	671	671	100	Pass
0.3240	635	635	100	Pass
0.3308	587	587	100	Pass
0.3376	551	551	100	Pass
0.3445	513	513	100	Pass
0.3513	475	475	100	Pass
0.3581	434	434	100	Pass
0.3650	403	403	100	Pass
0.3718	377	377	100	Pass
0.3786	357	357	100	Pass
0.3854	335	335	100	Pass
0.3923	318	318	100	Pass
0.3991	291	291	100	Pass
0.4059	269	269	100	Pass
0.4128	248	248	100	Pass
0.4196	237	237	100	Pass
0.4264	218	218	100	Pass
0.4333	209	209	100	Pass
0.4401	197	197	100	Pass
0.4469	187	187	100	Pass
0.4538	178	178	100	Pass
0.4606	172	172	100	Pass
0.4674	163	163	100	Pass
0.4743	152	152	100	Pass
0.4811	145	145	100	Pass
0.4879	141	141	100	Pass
0.4947	131	131	100	Pass
0.5016	126	126	100	Pass
0.5084	120	120	100	Pass
0.5152	112	112	100	Pass
0.5221	103	103	100	Pass
0.5289	98	98	100	Pass
0.5357	94	94	100	Pass
0.5426	90	90	100	Pass
0.5494	88	88	100	Pass
0.5562	83	83	100	Pass
0.5631	79	79	100	Pass
0.5699	76	76	100	Pass
0.5767	73	73	100	Pass
0.5836	68	68	100	Pass
0.5904	65	65	100	Pass
0.5972	61	61	100	Pass
0.6040	57	57	100	Pass
0.6109	53	53	100	Pass
0.6177	50	50	100	Pass
0.6245	48	48	100	Pass
0.6314	48	48	100	Pass
0.6382	46	46	100	Pass
0.6450	43	43	100	Pass
0.6519	41	41	100	Pass
0.6587	38	38	100	Pass

0.6655	38	38	100	Pass
0.6724	36	36	100	Pass
0.6792	35	35	100	Pass
0.6860	32	32	100	Pass
0.6928	31	31	100	Pass
0.6997	27	27	100	Pass
0.7065	23	23	100	Pass
0.7133	23	23	100	Pass
0.7202	23	23	100	Pass
0.7270	21	21	100	Pass
0.7338	20	20	100	Pass
0.7407	17	17	100	Pass
0.7475	16	16	100	Pass
0.7543	15	15	100	Pass
0.7612	14	14	100	Pass
0.7680	13	13	100	Pass
0.7748	11	11	100	Pass
0.7817	11	11	100	Pass
0.7885	11	11	100	Pass
0.7953	11	11	100	Pass
0.8021	10	10	100	Pass
0.8090	9	9	100	Pass
0.8158	9	9	100	Pass
0.8226	8	8	100	Pass
0.8295	7	7	100	Pass
0.8363	6	6	100	Pass
0.8431	6	6	100	Pass
0.8500	6	6	100	Pass
0.8568	5	5	100	Pass
0.8636	5	5	100	Pass
0.8705	5	5	100	Pass
0.8773	4	4	100	Pass
0.8841	4	4	100	Pass
0.8910	4	4	100	Pass
0.8978	3	3	100	Pass
0.9046	2	2	100	Pass
0.9114	2	2	100	Pass
0.9183	1	1	100	Pass
0.9251	0	0	100	Pass
0.9319	0	0	0	Pass
0.9388	0	0	0	Pass
0.9456	0	0	0	Pass
0.9524	0	0	0	Pass
0.9593	0	0	0	Pass
0.9661	0	0	0	Pass
0.9729	0	0	0	Pass
0.9798	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #62

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

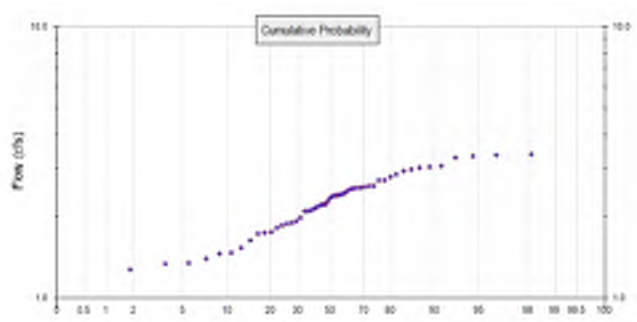
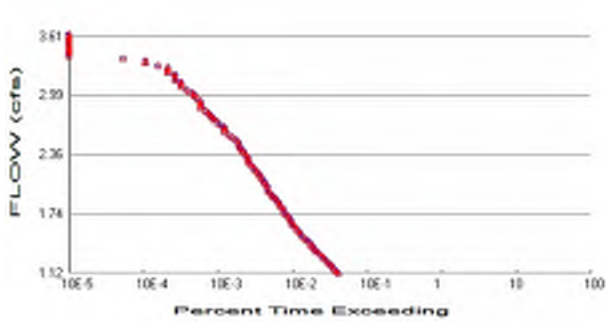
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 63



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #63

Total Pervious Area: 2.07
 Total Impervious Area: 1.91

Mitigated Landuse Totals for POC #63

Total Pervious Area: 2.07
 Total Impervious Area: 1.91

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #63

Return Period	Flow(cfs)
2 year	2.234652
5 year	2.767697
10 year	3.064966
25 year	3.392819
50 year	3.609177
100 year	3.805991

Flow Frequency Return Periods for Mitigated. POC #63

Return Period	Flow(cfs)
2 year	2.234652
5 year	2.767697
10 year	3.064966
25 year	3.392819
50 year	3.609177
100 year	3.805991

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #63

Year	Predeveloped	Mitigated
1956	2.568	2.568
1957	3.012	3.012
1958	2.190	2.190
1959	2.396	2.396
1960	2.536	2.536
1961	1.728	1.728
1962	3.368	3.368
1963	3.040	3.040
1964	2.451	2.451
1965	2.554	2.554
1966	2.578	2.578

1967	1.457	1.457
1968	2.416	2.416
1969	2.369	2.369
1970	1.923	1.923
1971	3.390	3.390
1972	2.933	2.933
1973	2.511	2.511
1974	2.577	2.577
1975	2.163	2.163
1976	2.712	2.712
1977	1.850	1.850
1978	3.326	3.326
1979	2.128	2.128
1980	1.880	1.880
1981	2.405	2.405
1982	2.787	2.787
1983	2.210	2.210
1984	2.110	2.110
1985	1.335	1.335
1986	2.549	2.549
1987	1.737	1.737
1988	2.715	2.715
1989	2.207	2.207
1990	3.061	3.061
1991	1.810	1.810
1992	1.344	1.344
1993	1.466	1.466
1994	2.092	2.092
1995	1.634	1.634
1996	2.083	2.083
1997	2.386	2.386
1998	1.390	1.390
1999	1.893	1.893
2000	1.749	1.749
2001	1.527	1.527
2002	1.967	1.967
2003	3.293	3.293
2004	2.971	2.971
2005	2.277	2.277
2006	2.344	2.344
2007	2.848	2.848
2008	1.267	1.267
2009	1.159	1.159

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #63

Rank	Predeveloped	Mitigated
1	3.3896	3.3896
2	3.3680	3.3680
3	3.3260	3.3260
4	3.2932	3.2932
5	3.0605	3.0605
6	3.0399	3.0399
7	3.0120	3.0120
8	2.9713	2.9713
9	2.9327	2.9327
10	2.8483	2.8483
11	2.7872	2.7872

12	2.7150	2.7150
13	2.7122	2.7122
14	2.5785	2.5785
15	2.5765	2.5765
16	2.5680	2.5680
17	2.5540	2.5540
18	2.5495	2.5495
19	2.5358	2.5358
20	2.5109	2.5109
21	2.4505	2.4505
22	2.4165	2.4165
23	2.4052	2.4052
24	2.3955	2.3955
25	2.3860	2.3860
26	2.3690	2.3690
27	2.3439	2.3439
28	2.2770	2.2770
29	2.2102	2.2102
30	2.2067	2.2067
31	2.1896	2.1896
32	2.1630	2.1630
33	2.1284	2.1284
34	2.1100	2.1100
35	2.0923	2.0923
36	2.0828	2.0828
37	1.9668	1.9668
38	1.9232	1.9232
39	1.8926	1.8926
40	1.8799	1.8799
41	1.8505	1.8505
42	1.8100	1.8100
43	1.7493	1.7493
44	1.7367	1.7367
45	1.7284	1.7284
46	1.6340	1.6340
47	1.5272	1.5272
48	1.4664	1.4664
49	1.4570	1.4570
50	1.3902	1.3902
51	1.3442	1.3442
52	1.3354	1.3354
53	1.2672	1.2672
54	1.1595	1.1595

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.1173	769	769	100	Pass
1.1425	722	722	100	Pass
1.1677	671	671	100	Pass
1.1928	629	629	100	Pass
1.2180	583	583	100	Pass
1.2432	550	550	100	Pass
1.2683	511	511	100	Pass
1.2935	474	474	100	Pass
1.3187	434	434	100	Pass
1.3439	395	395	100	Pass
1.3690	375	375	100	Pass
1.3942	356	356	100	Pass
1.4194	334	334	100	Pass
1.4445	318	318	100	Pass
1.4697	291	291	100	Pass
1.4949	269	269	100	Pass
1.5200	247	247	100	Pass
1.5452	235	235	100	Pass
1.5704	217	217	100	Pass
1.5956	209	209	100	Pass
1.6207	197	197	100	Pass
1.6459	186	186	100	Pass
1.6711	178	178	100	Pass
1.6962	171	171	100	Pass
1.7214	163	163	100	Pass
1.7466	151	151	100	Pass
1.7718	145	145	100	Pass
1.7969	140	140	100	Pass
1.8221	130	130	100	Pass
1.8473	126	126	100	Pass
1.8724	120	120	100	Pass
1.8976	112	112	100	Pass
1.9228	103	103	100	Pass
1.9479	98	98	100	Pass
1.9731	92	92	100	Pass
1.9983	89	89	100	Pass
2.0235	88	88	100	Pass
2.0486	83	83	100	Pass
2.0738	79	79	100	Pass
2.0990	76	76	100	Pass
2.1241	73	73	100	Pass
2.1493	68	68	100	Pass
2.1745	65	65	100	Pass
2.1996	61	61	100	Pass
2.2248	57	57	100	Pass
2.2500	53	53	100	Pass
2.2752	49	49	100	Pass
2.3003	48	48	100	Pass
2.3255	48	48	100	Pass
2.3507	46	46	100	Pass
2.3758	43	43	100	Pass
2.4010	41	41	100	Pass
2.4262	38	38	100	Pass

2.4513	37	37	100	Pass
2.4765	36	36	100	Pass
2.5017	35	35	100	Pass
2.5269	32	32	100	Pass
2.5520	29	29	100	Pass
2.5772	26	26	100	Pass
2.6024	23	23	100	Pass
2.6275	23	23	100	Pass
2.6527	23	23	100	Pass
2.6779	21	21	100	Pass
2.7030	19	19	100	Pass
2.7282	17	17	100	Pass
2.7534	16	16	100	Pass
2.7786	15	15	100	Pass
2.8037	14	14	100	Pass
2.8289	13	13	100	Pass
2.8541	11	11	100	Pass
2.8792	11	11	100	Pass
2.9044	11	11	100	Pass
2.9296	11	11	100	Pass
2.9548	10	10	100	Pass
2.9799	9	9	100	Pass
3.0051	9	9	100	Pass
3.0303	8	8	100	Pass
3.0554	7	7	100	Pass
3.0806	6	6	100	Pass
3.1058	6	6	100	Pass
3.1309	6	6	100	Pass
3.1561	5	5	100	Pass
3.1813	5	5	100	Pass
3.2065	5	5	100	Pass
3.2316	4	4	100	Pass
3.2568	4	4	100	Pass
3.2820	4	4	100	Pass
3.3071	3	3	100	Pass
3.3323	2	2	100	Pass
3.3575	2	2	100	Pass
3.3826	1	1	100	Pass
3.4078	0	0	100	Pass
3.4330	0	0	0	Pass
3.4582	0	0	0	Pass
3.4833	0	0	0	Pass
3.5085	0	0	0	Pass
3.5337	0	0	0	Pass
3.5588	0	0	0	Pass
3.5840	0	0	0	Pass
3.6092	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #63

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

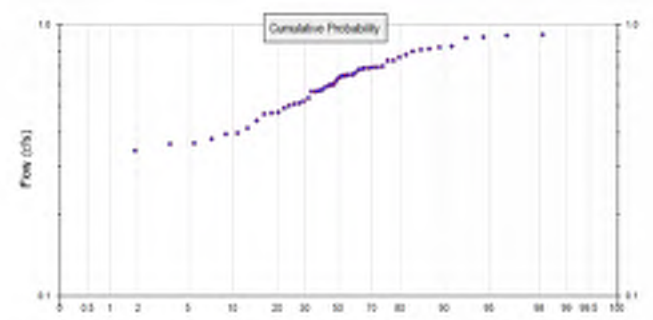
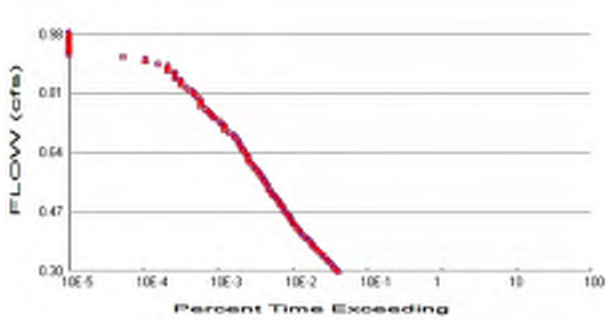
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 64



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #64

Total Pervious Area: 0.56
Total Impervious Area: 0.52

Mitigated Landuse Totals for POC #64

Total Pervious Area: 0.56
Total Impervious Area: 0.52

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #64

Return Period	Flow(cfs)
2 year	0.606948
5 year	0.751549
10 year	0.832176
25 year	0.921088
50 year	0.979758
100 year	1.033124

Flow Frequency Return Periods for Mitigated. POC #64

Return Period	Flow(cfs)
2 year	0.606948
5 year	0.751549
10 year	0.832176
25 year	0.921088
50 year	0.979758
100 year	1.033124

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #64

Year	Predeveloped	Mitigated
1956	0.697	0.697
1957	0.818	0.818
1958	0.595	0.595
1959	0.650	0.650
1960	0.688	0.688
1961	0.469	0.469
1962	0.914	0.914
1963	0.825	0.825
1964	0.666	0.666
1965	0.694	0.694
1966	0.700	0.700

1967	0.396	0.396
1968	0.656	0.656
1969	0.643	0.643
1970	0.523	0.523
1971	0.920	0.920
1972	0.796	0.796
1973	0.682	0.682
1974	0.700	0.700
1975	0.587	0.587
1976	0.736	0.736
1977	0.503	0.503
1978	0.903	0.903
1979	0.578	0.578
1980	0.511	0.511
1981	0.653	0.653
1982	0.757	0.757
1983	0.600	0.600
1984	0.573	0.573
1985	0.363	0.363
1986	0.692	0.692
1987	0.472	0.472
1988	0.737	0.737
1989	0.599	0.599
1990	0.831	0.831
1991	0.492	0.492
1992	0.365	0.365
1993	0.399	0.399
1994	0.568	0.568
1995	0.444	0.444
1996	0.566	0.566
1997	0.648	0.648
1998	0.378	0.378
1999	0.514	0.514
2000	0.475	0.475
2001	0.415	0.415
2002	0.535	0.535
2003	0.894	0.894
2004	0.807	0.807
2005	0.618	0.618
2006	0.636	0.636
2007	0.773	0.773
2008	0.344	0.344
2009	0.315	0.315

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #64

Rank	Predeveloped	Mitigated
1	0.9203	0.9203
2	0.9144	0.9144
3	0.9033	0.9033
4	0.8941	0.8941
5	0.8310	0.8310
6	0.8254	0.8254
7	0.8180	0.8180
8	0.8068	0.8068
9	0.7962	0.7962
10	0.7734	0.7734
11	0.7570	0.7570

12	0.7373	0.7373
13	0.7365	0.7365
14	0.7001	0.7001
15	0.6995	0.6995
16	0.6972	0.6972
17	0.6935	0.6935
18	0.6923	0.6923
19	0.6885	0.6885
20	0.6820	0.6820
21	0.6656	0.6656
22	0.6562	0.6562
23	0.6533	0.6533
24	0.6504	0.6504
25	0.6481	0.6481
26	0.6432	0.6432
27	0.6365	0.6365
28	0.6184	0.6184
29	0.6003	0.6003
30	0.5993	0.5993
31	0.5948	0.5948
32	0.5874	0.5874
33	0.5780	0.5780
34	0.5730	0.5730
35	0.5683	0.5683
36	0.5662	0.5662
37	0.5351	0.5351
38	0.5226	0.5226
39	0.5140	0.5140
40	0.5105	0.5105
41	0.5026	0.5026
42	0.4916	0.4916
43	0.4751	0.4751
44	0.4717	0.4717
45	0.4693	0.4693
46	0.4444	0.4444
47	0.4151	0.4151
48	0.3985	0.3985
49	0.3958	0.3958
50	0.3777	0.3777
51	0.3653	0.3653
52	0.3630	0.3630
53	0.3444	0.3444
54	0.3151	0.3151

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3035	773	773	100	Pass
0.3103	724	724	100	Pass
0.3171	671	671	100	Pass
0.3240	635	635	100	Pass
0.3308	587	587	100	Pass
0.3376	551	551	100	Pass
0.3445	513	513	100	Pass
0.3513	475	475	100	Pass
0.3581	434	434	100	Pass
0.3650	403	403	100	Pass
0.3718	377	377	100	Pass
0.3786	357	357	100	Pass
0.3854	335	335	100	Pass
0.3923	318	318	100	Pass
0.3991	291	291	100	Pass
0.4059	269	269	100	Pass
0.4128	248	248	100	Pass
0.4196	237	237	100	Pass
0.4264	218	218	100	Pass
0.4333	209	209	100	Pass
0.4401	197	197	100	Pass
0.4469	187	187	100	Pass
0.4538	178	178	100	Pass
0.4606	172	172	100	Pass
0.4674	163	163	100	Pass
0.4743	152	152	100	Pass
0.4811	145	145	100	Pass
0.4879	141	141	100	Pass
0.4947	131	131	100	Pass
0.5016	126	126	100	Pass
0.5084	120	120	100	Pass
0.5152	112	112	100	Pass
0.5221	103	103	100	Pass
0.5289	98	98	100	Pass
0.5357	94	94	100	Pass
0.5426	90	90	100	Pass
0.5494	88	88	100	Pass
0.5562	83	83	100	Pass
0.5631	79	79	100	Pass
0.5699	76	76	100	Pass
0.5767	73	73	100	Pass
0.5836	68	68	100	Pass
0.5904	65	65	100	Pass
0.5972	61	61	100	Pass
0.6040	57	57	100	Pass
0.6109	53	53	100	Pass
0.6177	50	50	100	Pass
0.6245	48	48	100	Pass
0.6314	48	48	100	Pass
0.6382	46	46	100	Pass
0.6450	43	43	100	Pass
0.6519	41	41	100	Pass
0.6587	38	38	100	Pass

0.6655	38	38	100	Pass
0.6724	36	36	100	Pass
0.6792	35	35	100	Pass
0.6860	32	32	100	Pass
0.6928	31	31	100	Pass
0.6997	27	27	100	Pass
0.7065	23	23	100	Pass
0.7133	23	23	100	Pass
0.7202	23	23	100	Pass
0.7270	21	21	100	Pass
0.7338	20	20	100	Pass
0.7407	17	17	100	Pass
0.7475	16	16	100	Pass
0.7543	15	15	100	Pass
0.7612	14	14	100	Pass
0.7680	13	13	100	Pass
0.7748	11	11	100	Pass
0.7817	11	11	100	Pass
0.7885	11	11	100	Pass
0.7953	11	11	100	Pass
0.8021	10	10	100	Pass
0.8090	9	9	100	Pass
0.8158	9	9	100	Pass
0.8226	8	8	100	Pass
0.8295	7	7	100	Pass
0.8363	6	6	100	Pass
0.8431	6	6	100	Pass
0.8500	6	6	100	Pass
0.8568	5	5	100	Pass
0.8636	5	5	100	Pass
0.8705	5	5	100	Pass
0.8773	4	4	100	Pass
0.8841	4	4	100	Pass
0.8910	4	4	100	Pass
0.8978	3	3	100	Pass
0.9046	2	2	100	Pass
0.9114	2	2	100	Pass
0.9183	1	1	100	Pass
0.9251	0	0	100	Pass
0.9319	0	0	0	Pass
0.9388	0	0	0	Pass
0.9456	0	0	0	Pass
0.9524	0	0	0	Pass
0.9593	0	0	0	Pass
0.9661	0	0	0	Pass
0.9729	0	0	0	Pass
0.9798	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #64

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

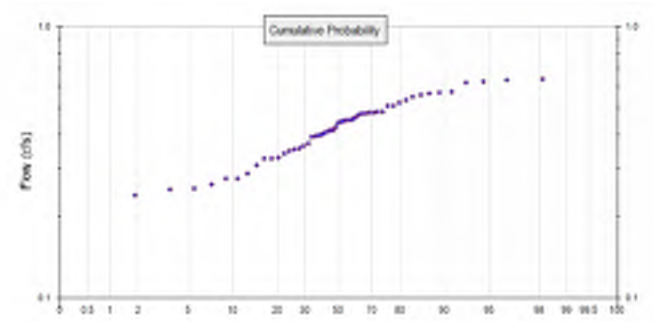
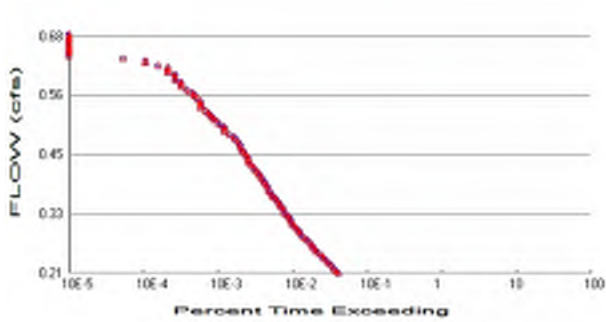
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 65



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #65

Total Pervious Area: 0.39
 Total Impervious Area: 0.36

Mitigated Landuse Totals for POC #65

Total Pervious Area: 0.39
 Total Impervious Area: 0.36

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #65

Return Period	Flow(cfs)
2 year	0.421127
5 year	0.521574
10 year	0.57759
25 year	0.639369
50 year	0.680138
100 year	0.717225

Flow Frequency Return Periods for Mitigated. POC #65

Return Period	Flow(cfs)
2 year	0.421127
5 year	0.521574
10 year	0.57759
25 year	0.639369
50 year	0.680138
100 year	0.717225

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #65

Year	Predeveloped	Mitigated
1956	0.484	0.484
1957	0.568	0.568
1958	0.413	0.413
1959	0.451	0.451
1960	0.478	0.478
1961	0.326	0.326
1962	0.635	0.635
1963	0.573	0.573
1964	0.462	0.462
1965	0.481	0.481
1966	0.486	0.486

1967	0.275	0.275
1968	0.455	0.455
1969	0.446	0.446
1970	0.362	0.362
1971	0.639	0.639
1972	0.553	0.553
1973	0.473	0.473
1974	0.486	0.486
1975	0.408	0.408
1976	0.511	0.511
1977	0.349	0.349
1978	0.627	0.627
1979	0.401	0.401
1980	0.354	0.354
1981	0.453	0.453
1982	0.525	0.525
1983	0.417	0.417
1984	0.398	0.398
1985	0.252	0.252
1986	0.480	0.480
1987	0.327	0.327
1988	0.512	0.512
1989	0.416	0.416
1990	0.577	0.577
1991	0.341	0.341
1992	0.253	0.253
1993	0.276	0.276
1994	0.394	0.394
1995	0.308	0.308
1996	0.393	0.393
1997	0.450	0.450
1998	0.262	0.262
1999	0.357	0.357
2000	0.330	0.330
2001	0.288	0.288
2002	0.371	0.371
2003	0.621	0.621
2004	0.560	0.560
2005	0.429	0.429
2006	0.442	0.442
2007	0.537	0.537
2008	0.239	0.239
2009	0.219	0.219

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #65

Rank	Predeveloped	Mitigated
1	0.6388	0.6388
2	0.6347	0.6347
3	0.6268	0.6268
4	0.6206	0.6206
5	0.5768	0.5768
6	0.5729	0.5729
7	0.5676	0.5676
8	0.5599	0.5599
9	0.5527	0.5527
10	0.5368	0.5368
11	0.5253	0.5253

12	0.5116	0.5116
13	0.5111	0.5111
14	0.4859	0.4859
15	0.4855	0.4855
16	0.4839	0.4839
17	0.4813	0.4813
18	0.4804	0.4804
19	0.4779	0.4779
20	0.4732	0.4732
21	0.4618	0.4618
22	0.4554	0.4554
23	0.4533	0.4533
24	0.4514	0.4514
25	0.4497	0.4497
26	0.4464	0.4464
27	0.4417	0.4417
28	0.4291	0.4291
29	0.4165	0.4165
30	0.4158	0.4158
31	0.4126	0.4126
32	0.4076	0.4076
33	0.4011	0.4011
34	0.3976	0.3976
35	0.3943	0.3943
36	0.3925	0.3925
37	0.3707	0.3707
38	0.3624	0.3624
39	0.3567	0.3567
40	0.3543	0.3543
41	0.3487	0.3487
42	0.3411	0.3411
43	0.3297	0.3297
44	0.3273	0.3273
45	0.3257	0.3257
46	0.3080	0.3080
47	0.2878	0.2878
48	0.2764	0.2764
49	0.2746	0.2746
50	0.2620	0.2620
51	0.2533	0.2533
52	0.2517	0.2517
53	0.2388	0.2388
54	0.2185	0.2185

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2106	774	774	100	Pass
0.2153	724	724	100	Pass
0.2200	671	671	100	Pass
0.2248	637	637	100	Pass
0.2295	586	586	100	Pass
0.2343	551	551	100	Pass
0.2390	510	510	100	Pass
0.2438	477	477	100	Pass
0.2485	438	438	100	Pass
0.2533	395	395	100	Pass
0.2580	377	377	100	Pass
0.2627	357	357	100	Pass
0.2675	335	335	100	Pass
0.2722	318	318	100	Pass
0.2770	293	293	100	Pass
0.2817	269	269	100	Pass
0.2865	248	248	100	Pass
0.2912	235	235	100	Pass
0.2959	222	222	100	Pass
0.3007	209	209	100	Pass
0.3054	197	197	100	Pass
0.3102	186	186	100	Pass
0.3149	179	179	100	Pass
0.3197	172	172	100	Pass
0.3244	163	163	100	Pass
0.3291	151	151	100	Pass
0.3339	145	145	100	Pass
0.3386	141	141	100	Pass
0.3434	131	131	100	Pass
0.3481	126	126	100	Pass
0.3529	120	120	100	Pass
0.3576	112	112	100	Pass
0.3623	103	103	100	Pass
0.3671	98	98	100	Pass
0.3718	94	94	100	Pass
0.3766	90	90	100	Pass
0.3813	88	88	100	Pass
0.3861	83	83	100	Pass
0.3908	79	79	100	Pass
0.3955	76	76	100	Pass
0.4003	73	73	100	Pass
0.4050	68	68	100	Pass
0.4098	65	65	100	Pass
0.4145	61	61	100	Pass
0.4193	57	57	100	Pass
0.4240	53	53	100	Pass
0.4287	50	50	100	Pass
0.4335	48	48	100	Pass
0.4382	48	48	100	Pass
0.4430	46	46	100	Pass
0.4477	43	43	100	Pass
0.4525	41	41	100	Pass
0.4572	38	38	100	Pass

0.4620	38	38	100	Pass
0.4667	37	37	100	Pass
0.4714	35	35	100	Pass
0.4762	32	32	100	Pass
0.4809	31	31	100	Pass
0.4857	27	27	100	Pass
0.4904	23	23	100	Pass
0.4952	23	23	100	Pass
0.4999	23	23	100	Pass
0.5046	21	21	100	Pass
0.5094	19	19	100	Pass
0.5141	17	17	100	Pass
0.5189	16	16	100	Pass
0.5236	15	15	100	Pass
0.5284	14	14	100	Pass
0.5331	13	13	100	Pass
0.5378	11	11	100	Pass
0.5426	11	11	100	Pass
0.5473	11	11	100	Pass
0.5521	11	11	100	Pass
0.5568	10	10	100	Pass
0.5616	9	9	100	Pass
0.5663	9	9	100	Pass
0.5710	8	8	100	Pass
0.5758	7	7	100	Pass
0.5805	6	6	100	Pass
0.5853	6	6	100	Pass
0.5900	6	6	100	Pass
0.5948	5	5	100	Pass
0.5995	5	5	100	Pass
0.6042	5	5	100	Pass
0.6090	4	4	100	Pass
0.6137	4	4	100	Pass
0.6185	4	4	100	Pass
0.6232	3	3	100	Pass
0.6280	2	2	100	Pass
0.6327	2	2	100	Pass
0.6374	1	1	100	Pass
0.6422	0	0	100	Pass
0.6469	0	0	0	Pass
0.6517	0	0	0	Pass
0.6564	0	0	0	Pass
0.6612	0	0	0	Pass
0.6659	0	0	0	Pass
0.6707	0	0	0	Pass
0.6754	0	0	0	Pass
0.6801	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #65

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

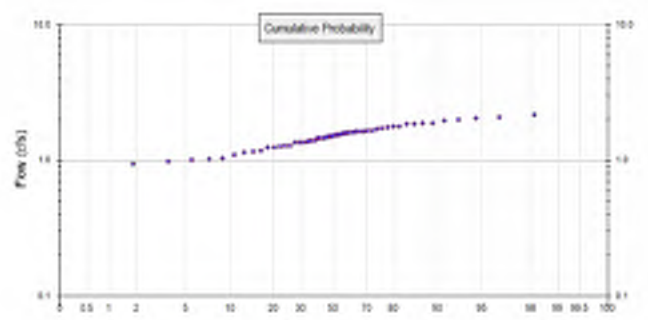
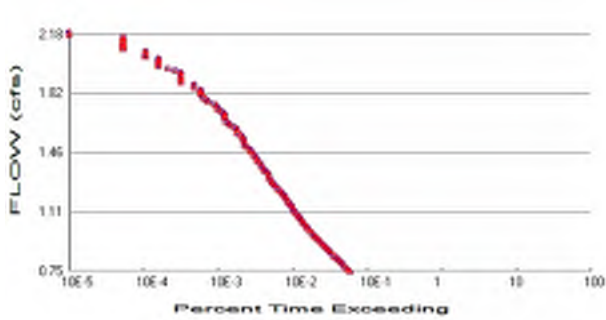
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 66



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #66

Total Pervious Area: 0.26
Total Impervious Area: 1.89

Mitigated Landuse Totals for POC #66

Total Pervious Area: 0.26
Total Impervious Area: 1.89

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #66

Return Period	Flow(cfs)
2 year	1.490904
5 year	1.767945
10 year	1.917643
25 year	2.079359
50 year	2.184331
100 year	2.278713

Flow Frequency Return Periods for Mitigated. POC #66

Return Period	Flow(cfs)
2 year	1.490904
5 year	1.767945
10 year	1.917643
25 year	2.079359
50 year	2.184331
100 year	2.278713

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #66

Year	Predeveloped	Mitigated
1956	1.563	1.563
1957	1.956	1.956
1958	1.513	1.513
1959	1.492	1.492
1960	1.549	1.549
1961	1.274	1.274
1962	2.046	2.046
1963	1.882	1.882
1964	1.637	1.637
1965	1.626	1.626
1966	1.586	1.586

1967	1.016	1.016
1968	1.535	1.535
1969	1.453	1.453
1970	1.387	1.387
1971	2.092	2.092
1972	1.764	1.764
1973	1.661	1.661
1974	1.578	1.578
1975	1.403	1.403
1976	1.715	1.715
1977	1.247	1.247
1978	2.179	2.179
1979	1.366	1.366
1980	1.261	1.261
1981	1.614	1.614
1982	1.861	1.861
1983	1.468	1.468
1984	1.351	1.351
1985	1.039	1.039
1986	1.639	1.639
1987	1.144	1.144
1988	1.733	1.733
1989	1.465	1.465
1990	1.889	1.889
1991	1.250	1.250
1992	0.982	0.982
1993	1.105	1.105
1994	1.384	1.384
1995	1.362	1.362
1996	1.656	1.656
1997	1.614	1.614
1998	1.008	1.008
1999	1.276	1.276
2000	1.173	1.173
2001	1.159	1.159
2002	1.781	1.781
2003	1.994	1.994
2004	1.857	1.857
2005	1.472	1.472
2006	1.499	1.499
2007	1.766	1.766
2008	0.934	0.934
2009	0.884	0.884

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #66

Rank	Predeveloped	Mitigated
1	2.1792	2.1792
2	2.0916	2.0916
3	2.0459	2.0459
4	1.9935	1.9935
5	1.9559	1.9559
6	1.8893	1.8893
7	1.8818	1.8818
8	1.8609	1.8609
9	1.8571	1.8571
10	1.7805	1.7805
11	1.7659	1.7659

12	1.7640	1.7640
13	1.7327	1.7327
14	1.7148	1.7148
15	1.6615	1.6615
16	1.6558	1.6558
17	1.6394	1.6394
18	1.6369	1.6369
19	1.6264	1.6264
20	1.6142	1.6142
21	1.6140	1.6140
22	1.5858	1.5858
23	1.5782	1.5782
24	1.5630	1.5630
25	1.5493	1.5493
26	1.5346	1.5346
27	1.5132	1.5132
28	1.4993	1.4993
29	1.4918	1.4918
30	1.4722	1.4722
31	1.4676	1.4676
32	1.4655	1.4655
33	1.4532	1.4532
34	1.4028	1.4028
35	1.3875	1.3875
36	1.3839	1.3839
37	1.3657	1.3657
38	1.3620	1.3620
39	1.3506	1.3506
40	1.2760	1.2760
41	1.2744	1.2744
42	1.2608	1.2608
43	1.2496	1.2496
44	1.2473	1.2473
45	1.1727	1.1727
46	1.1590	1.1590
47	1.1442	1.1442
48	1.1052	1.1052
49	1.0394	1.0394
50	1.0161	1.0161
51	1.0080	1.0080
52	0.9824	0.9824
53	0.9336	0.9336
54	0.8836	0.8836

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.7455	1097	1097	100	Pass
0.7600	1029	1029	100	Pass
0.7745	955	955	100	Pass
0.7891	881	881	100	Pass
0.8036	830	830	100	Pass
0.8181	768	768	100	Pass
0.8327	712	712	100	Pass
0.8472	658	658	100	Pass
0.8617	608	608	100	Pass
0.8763	563	563	100	Pass
0.8908	528	528	100	Pass
0.9053	492	492	100	Pass
0.9199	462	462	100	Pass
0.9344	423	423	100	Pass
0.9489	395	395	100	Pass
0.9635	368	368	100	Pass
0.9780	344	344	100	Pass
0.9925	319	319	100	Pass
1.0071	299	299	100	Pass
1.0216	285	285	100	Pass
1.0361	266	266	100	Pass
1.0507	256	256	100	Pass
1.0652	238	238	100	Pass
1.0797	228	228	100	Pass
1.0943	216	216	100	Pass
1.1088	202	202	100	Pass
1.1233	194	194	100	Pass
1.1379	185	185	100	Pass
1.1524	174	174	100	Pass
1.1669	167	167	100	Pass
1.1815	159	159	100	Pass
1.1960	150	150	100	Pass
1.2105	142	142	100	Pass
1.2251	135	135	100	Pass
1.2396	126	126	100	Pass
1.2541	115	115	100	Pass
1.2687	108	108	100	Pass
1.2832	100	100	100	Pass
1.2977	98	98	100	Pass
1.3123	92	92	100	Pass
1.3268	91	91	100	Pass
1.3414	89	89	100	Pass
1.3559	81	81	100	Pass
1.3704	77	77	100	Pass
1.3850	73	73	100	Pass
1.3995	70	70	100	Pass
1.4140	64	64	100	Pass
1.4286	63	63	100	Pass
1.4431	60	60	100	Pass
1.4576	57	57	100	Pass
1.4722	53	53	100	Pass
1.4867	51	51	100	Pass
1.5012	46	46	100	Pass

1.5158	43	43	100	Pass
1.5303	43	43	100	Pass
1.5448	42	42	100	Pass
1.5594	40	40	100	Pass
1.5739	38	38	100	Pass
1.5884	34	34	100	Pass
1.6030	34	34	100	Pass
1.6175	32	32	100	Pass
1.6320	28	28	100	Pass
1.6466	26	26	100	Pass
1.6611	24	24	100	Pass
1.6756	23	23	100	Pass
1.6902	23	23	100	Pass
1.7047	23	23	100	Pass
1.7192	21	21	100	Pass
1.7338	19	19	100	Pass
1.7483	18	18	100	Pass
1.7628	17	17	100	Pass
1.7774	14	14	100	Pass
1.7919	13	13	100	Pass
1.8064	12	12	100	Pass
1.8210	11	11	100	Pass
1.8355	11	11	100	Pass
1.8500	11	11	100	Pass
1.8646	9	9	100	Pass
1.8791	9	9	100	Pass
1.8936	6	6	100	Pass
1.9082	6	6	100	Pass
1.9227	6	6	100	Pass
1.9373	6	6	100	Pass
1.9518	6	6	100	Pass
1.9663	5	5	100	Pass
1.9809	4	4	100	Pass
1.9954	3	3	100	Pass
2.0099	3	3	100	Pass
2.0245	3	3	100	Pass
2.0390	3	3	100	Pass
2.0535	2	2	100	Pass
2.0681	2	2	100	Pass
2.0826	2	2	100	Pass
2.0971	1	1	100	Pass
2.1117	1	1	100	Pass
2.1262	1	1	100	Pass
2.1407	1	1	100	Pass
2.1553	1	1	100	Pass
2.1698	1	1	100	Pass
2.1843	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #66

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

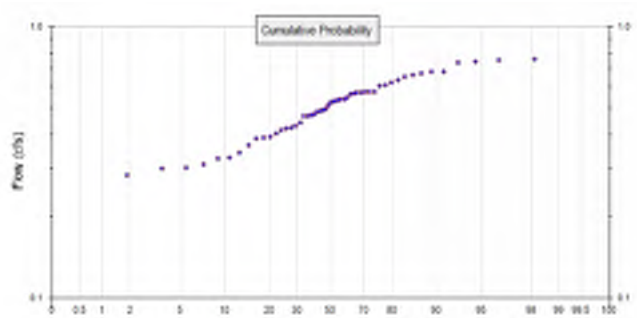
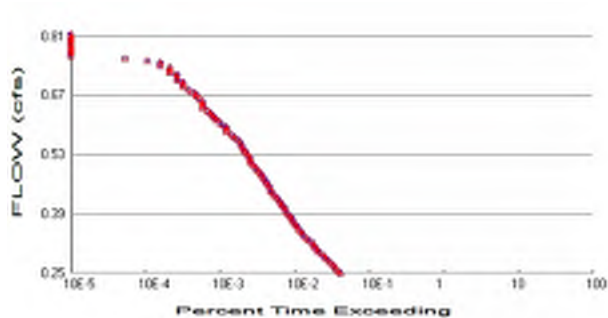
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 67



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #67

Total Pervious Area: 0.46
 Total Impervious Area: 0.43

Mitigated Landuse Totals for POC #67

Total Pervious Area: 0.46
 Total Impervious Area: 0.43

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #67

Return Period	Flow(cfs)
2 year	0.500656
5 year	0.619779
10 year	0.686188
25 year	0.759412
50 year	0.807726
100 year	0.85167

Flow Frequency Return Periods for Mitigated. POC #67

Return Period	Flow(cfs)
2 year	0.500656
5 year	0.619779
10 year	0.686188
25 year	0.759412
50 year	0.807726
100 year	0.85167

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #67

Year	Predeveloped	Mitigated
1956	0.575	0.575
1957	0.675	0.675
1958	0.491	0.491
1959	0.536	0.536
1960	0.568	0.568
1961	0.387	0.387
1962	0.754	0.754
1963	0.681	0.681
1964	0.549	0.549
1965	0.572	0.572
1966	0.577	0.577

1967	0.327	0.327
1968	0.541	0.541
1969	0.530	0.530
1970	0.431	0.431
1971	0.759	0.759
1972	0.656	0.656
1973	0.563	0.563
1974	0.577	0.577
1975	0.484	0.484
1976	0.607	0.607
1977	0.415	0.415
1978	0.745	0.745
1979	0.477	0.477
1980	0.421	0.421
1981	0.539	0.539
1982	0.624	0.624
1983	0.495	0.495
1984	0.473	0.473
1985	0.300	0.300
1986	0.571	0.571
1987	0.389	0.389
1988	0.608	0.608
1989	0.494	0.494
1990	0.685	0.685
1991	0.405	0.405
1992	0.301	0.301
1993	0.329	0.329
1994	0.469	0.469
1995	0.367	0.367
1996	0.468	0.468
1997	0.535	0.535
1998	0.312	0.312
1999	0.424	0.424
2000	0.392	0.392
2001	0.343	0.343
2002	0.442	0.442
2003	0.737	0.737
2004	0.665	0.665
2005	0.510	0.510
2006	0.525	0.525
2007	0.638	0.638
2008	0.284	0.284
2009	0.260	0.260

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #67

Rank	Predeveloped	Mitigated
1	0.7589	0.7589
2	0.7539	0.7539
3	0.7450	0.7450
4	0.7371	0.7371
5	0.6852	0.6852
6	0.6806	0.6806
7	0.6746	0.6746
8	0.6653	0.6653
9	0.6564	0.6564
10	0.6377	0.6377
11	0.6245	0.6245

12	0.6080	0.6080
13	0.6073	0.6073
14	0.5772	0.5772
15	0.5768	0.5768
16	0.5748	0.5748
17	0.5720	0.5720
18	0.5710	0.5710
19	0.5677	0.5677
20	0.5625	0.5625
21	0.5490	0.5490
22	0.5411	0.5411
23	0.5389	0.5389
24	0.5363	0.5363
25	0.5347	0.5347
26	0.5303	0.5303
27	0.5249	0.5249
28	0.5100	0.5100
29	0.4952	0.4952
30	0.4944	0.4944
31	0.4907	0.4907
32	0.4845	0.4845
33	0.4767	0.4767
34	0.4726	0.4726
35	0.4687	0.4687
36	0.4675	0.4675
37	0.4422	0.4422
38	0.4312	0.4312
39	0.4240	0.4240
40	0.4211	0.4211
41	0.4146	0.4146
42	0.4054	0.4054
43	0.3920	0.3920
44	0.3890	0.3890
45	0.3870	0.3870
46	0.3670	0.3670
47	0.3426	0.3426
48	0.3290	0.3290
49	0.3266	0.3266
50	0.3117	0.3117
51	0.3014	0.3014
52	0.2997	0.2997
53	0.2842	0.2842
54	0.2601	0.2601

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2503	773	773	100	Pass
0.2560	734	734	100	Pass
0.2616	679	679	100	Pass
0.2672	631	631	100	Pass
0.2728	589	589	100	Pass
0.2785	551	551	100	Pass
0.2841	512	512	100	Pass
0.2897	477	477	100	Pass
0.2954	438	438	100	Pass
0.3010	396	396	100	Pass
0.3066	377	377	100	Pass
0.3123	357	357	100	Pass
0.3179	337	337	100	Pass
0.3235	320	320	100	Pass
0.3292	291	291	100	Pass
0.3348	269	269	100	Pass
0.3404	248	248	100	Pass
0.3460	235	235	100	Pass
0.3517	218	218	100	Pass
0.3573	209	209	100	Pass
0.3629	200	200	100	Pass
0.3686	187	187	100	Pass
0.3742	178	178	100	Pass
0.3798	172	172	100	Pass
0.3855	163	163	100	Pass
0.3911	152	152	100	Pass
0.3967	145	145	100	Pass
0.4023	140	140	100	Pass
0.4080	132	132	100	Pass
0.4136	126	126	100	Pass
0.4192	120	120	100	Pass
0.4249	113	113	100	Pass
0.4305	106	106	100	Pass
0.4361	98	98	100	Pass
0.4418	95	95	100	Pass
0.4474	90	90	100	Pass
0.4530	88	88	100	Pass
0.4586	83	83	100	Pass
0.4643	79	79	100	Pass
0.4699	76	76	100	Pass
0.4755	73	73	100	Pass
0.4812	68	68	100	Pass
0.4868	65	65	100	Pass
0.4924	61	61	100	Pass
0.4981	57	57	100	Pass
0.5037	53	53	100	Pass
0.5093	49	49	100	Pass
0.5150	48	48	100	Pass
0.5206	48	48	100	Pass
0.5262	46	46	100	Pass
0.5318	43	43	100	Pass
0.5375	41	41	100	Pass
0.5431	38	38	100	Pass

0.5487	38	38	100	Pass
0.5544	36	36	100	Pass
0.5600	35	35	100	Pass
0.5656	32	32	100	Pass
0.5713	29	29	100	Pass
0.5769	27	27	100	Pass
0.5825	23	23	100	Pass
0.5881	23	23	100	Pass
0.5938	23	23	100	Pass
0.5994	21	21	100	Pass
0.6050	19	19	100	Pass
0.6107	17	17	100	Pass
0.6163	16	16	100	Pass
0.6219	15	15	100	Pass
0.6276	14	14	100	Pass
0.6332	13	13	100	Pass
0.6388	11	11	100	Pass
0.6444	11	11	100	Pass
0.6501	11	11	100	Pass
0.6557	11	11	100	Pass
0.6613	10	10	100	Pass
0.6670	9	9	100	Pass
0.6726	9	9	100	Pass
0.6782	8	8	100	Pass
0.6839	7	7	100	Pass
0.6895	6	6	100	Pass
0.6951	6	6	100	Pass
0.7008	6	6	100	Pass
0.7064	5	5	100	Pass
0.7120	5	5	100	Pass
0.7176	5	5	100	Pass
0.7233	4	4	100	Pass
0.7289	4	4	100	Pass
0.7345	4	4	100	Pass
0.7402	3	3	100	Pass
0.7458	3	3	100	Pass
0.7514	2	2	100	Pass
0.7571	1	1	100	Pass
0.7627	0	0	100	Pass
0.7683	0	0	0	Pass
0.7739	0	0	0	Pass
0.7796	0	0	0	Pass
0.7852	0	0	0	Pass
0.7908	0	0	0	Pass
0.7965	0	0	0	Pass
0.8021	0	0	0	Pass
0.8077	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #67

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

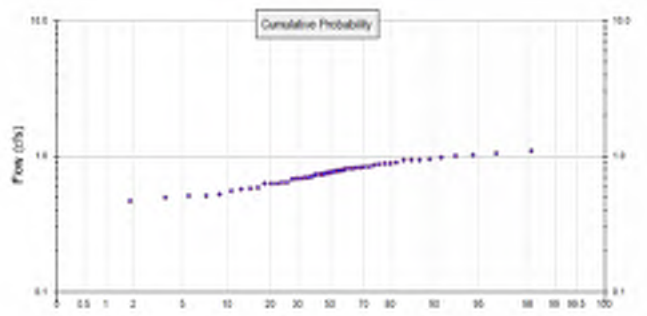
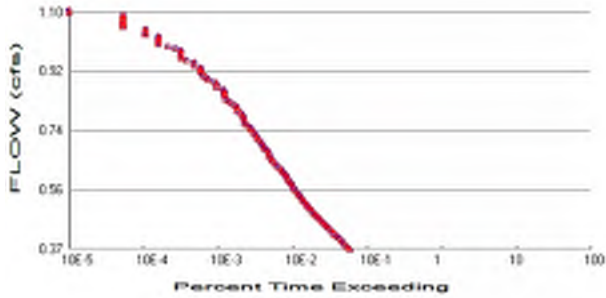
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 68



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #68

Total Pervious Area: 0.13
 Total Impervious Area: 0.95

Mitigated Landuse Totals for POC #68

Total Pervious Area: 0.13
 Total Impervious Area: 0.95

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #68

Return Period	Flow(cfs)
2 year	0.74912
5 year	0.888285
10 year	0.963479
25 year	1.04471
50 year	1.097437
100 year	1.144844

Flow Frequency Return Periods for Mitigated. POC #68

Return Period	Flow(cfs)
2 year	0.74912
5 year	0.888285
10 year	0.963479
25 year	1.04471
50 year	1.097437
100 year	1.144844

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #68

Year	Predeveloped	Mitigated
1956	0.785	0.785
1957	0.983	0.983
1958	0.760	0.760
1959	0.750	0.750
1960	0.778	0.778
1961	0.640	0.640
1962	1.028	1.028
1963	0.945	0.945
1964	0.822	0.822
1965	0.817	0.817
1966	0.797	0.797

1967	0.511	0.511
1968	0.771	0.771
1969	0.730	0.730
1970	0.697	0.697
1971	1.051	1.051
1972	0.886	0.886
1973	0.835	0.835
1974	0.793	0.793
1975	0.705	0.705
1976	0.862	0.862
1977	0.627	0.627
1978	1.095	1.095
1979	0.686	0.686
1980	0.634	0.634
1981	0.811	0.811
1982	0.935	0.935
1983	0.737	0.737
1984	0.679	0.679
1985	0.522	0.522
1986	0.824	0.824
1987	0.575	0.575
1988	0.871	0.871
1989	0.736	0.736
1990	0.949	0.949
1991	0.628	0.628
1992	0.494	0.494
1993	0.555	0.555
1994	0.695	0.695
1995	0.685	0.685
1996	0.832	0.832
1997	0.811	0.811
1998	0.507	0.507
1999	0.641	0.641
2000	0.589	0.589
2001	0.582	0.582
2002	0.895	0.895
2003	1.002	1.002
2004	0.933	0.933
2005	0.740	0.740
2006	0.753	0.753
2007	0.887	0.887
2008	0.469	0.469
2009	0.444	0.444

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #68

Rank	Predeveloped	Mitigated
1	1.0950	1.0950
2	1.0508	1.0508
3	1.0279	1.0279
4	1.0015	1.0015
5	0.9827	0.9827
6	0.9492	0.9492
7	0.9455	0.9455
8	0.9350	0.9350
9	0.9331	0.9331
10	0.8949	0.8949
11	0.8872	0.8872

12	0.8862	0.8862
13	0.8706	0.8706
14	0.8616	0.8616
15	0.8348	0.8348
16	0.8321	0.8321
17	0.8237	0.8237
18	0.8225	0.8225
19	0.8172	0.8172
20	0.8111	0.8111
21	0.8110	0.8110
22	0.7967	0.7967
23	0.7929	0.7929
24	0.7853	0.7853
25	0.7784	0.7784
26	0.7710	0.7710
27	0.7603	0.7603
28	0.7533	0.7533
29	0.7495	0.7495
30	0.7397	0.7397
31	0.7374	0.7374
32	0.7363	0.7363
33	0.7301	0.7301
34	0.7048	0.7048
35	0.6972	0.6972
36	0.6953	0.6953
37	0.6862	0.6862
38	0.6845	0.6845
39	0.6786	0.6786
40	0.6411	0.6411
41	0.6404	0.6404
42	0.6335	0.6335
43	0.6280	0.6280
44	0.6267	0.6267
45	0.5892	0.5892
46	0.5824	0.5824
47	0.5749	0.5749
48	0.5554	0.5554
49	0.5223	0.5223
50	0.5106	0.5106
51	0.5065	0.5065
52	0.4937	0.4937
53	0.4692	0.4692
54	0.4440	0.4440

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3746	1102	1102	100	Pass
0.3819	1034	1034	100	Pass
0.3892	955	955	100	Pass
0.3965	889	889	100	Pass
0.4038	832	832	100	Pass
0.4111	768	768	100	Pass
0.4184	714	714	100	Pass
0.4257	660	660	100	Pass
0.4330	612	612	100	Pass
0.4403	563	563	100	Pass
0.4476	530	530	100	Pass
0.4549	495	495	100	Pass
0.4622	462	462	100	Pass
0.4695	426	426	100	Pass
0.4768	396	396	100	Pass
0.4841	368	368	100	Pass
0.4914	344	344	100	Pass
0.4987	322	322	100	Pass
0.5060	301	301	100	Pass
0.5133	285	285	100	Pass
0.5206	269	269	100	Pass
0.5279	256	256	100	Pass
0.5352	238	238	100	Pass
0.5425	228	228	100	Pass
0.5498	218	218	100	Pass
0.5571	201	201	100	Pass
0.5644	194	194	100	Pass
0.5717	185	185	100	Pass
0.5790	174	174	100	Pass
0.5863	167	167	100	Pass
0.5936	159	159	100	Pass
0.6009	152	152	100	Pass
0.6082	142	142	100	Pass
0.6155	136	136	100	Pass
0.6228	128	128	100	Pass
0.6301	116	116	100	Pass
0.6374	109	109	100	Pass
0.6447	101	101	100	Pass
0.6520	98	98	100	Pass
0.6593	93	93	100	Pass
0.6666	91	91	100	Pass
0.6739	89	89	100	Pass
0.6812	81	81	100	Pass
0.6885	77	77	100	Pass
0.6958	74	74	100	Pass
0.7031	70	70	100	Pass
0.7104	64	64	100	Pass
0.7177	63	63	100	Pass
0.7250	60	60	100	Pass
0.7323	57	57	100	Pass
0.7396	53	53	100	Pass
0.7470	51	51	100	Pass
0.7543	46	46	100	Pass

0.7616	43	43	100	Pass
0.7689	43	43	100	Pass
0.7762	42	42	100	Pass
0.7835	40	40	100	Pass
0.7908	38	38	100	Pass
0.7981	34	34	100	Pass
0.8054	34	34	100	Pass
0.8127	32	32	100	Pass
0.8200	29	29	100	Pass
0.8273	26	26	100	Pass
0.8346	24	24	100	Pass
0.8419	23	23	100	Pass
0.8492	23	23	100	Pass
0.8565	23	23	100	Pass
0.8638	22	22	100	Pass
0.8711	18	18	100	Pass
0.8784	18	18	100	Pass
0.8857	17	17	100	Pass
0.8930	14	14	100	Pass
0.9003	13	13	100	Pass
0.9076	12	12	100	Pass
0.9149	11	11	100	Pass
0.9222	11	11	100	Pass
0.9295	11	11	100	Pass
0.9368	9	9	100	Pass
0.9441	9	9	100	Pass
0.9514	7	7	100	Pass
0.9587	6	6	100	Pass
0.9660	6	6	100	Pass
0.9733	6	6	100	Pass
0.9806	6	6	100	Pass
0.9879	5	5	100	Pass
0.9952	4	4	100	Pass
1.0025	3	3	100	Pass
1.0098	3	3	100	Pass
1.0171	3	3	100	Pass
1.0244	3	3	100	Pass
1.0317	2	2	100	Pass
1.0390	2	2	100	Pass
1.0463	2	2	100	Pass
1.0536	1	1	100	Pass
1.0609	1	1	100	Pass
1.0682	1	1	100	Pass
1.0755	1	1	100	Pass
1.0828	1	1	100	Pass
1.0901	1	1	100	Pass
1.0974	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #68

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

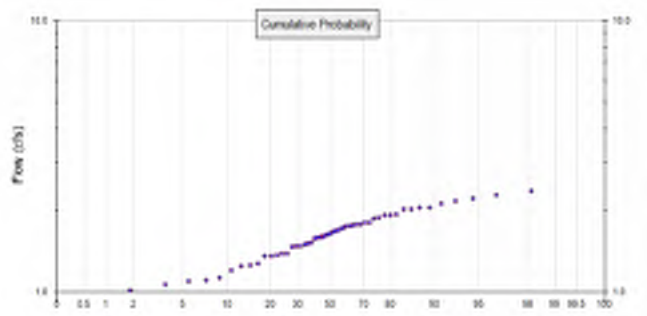
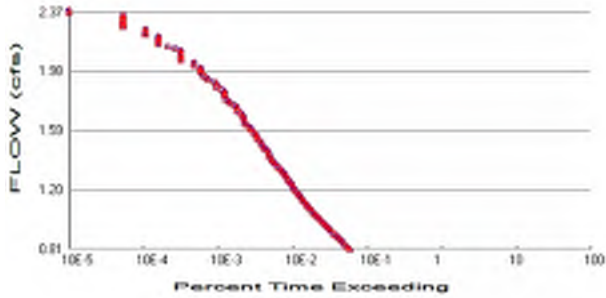
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



POC 69



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #69

Total Pervious Area: 0.28
 Total Impervious Area: 2.05

Mitigated Landuse Totals for POC #69

Total Pervious Area: 0.28
 Total Impervious Area: 2.05

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #69

Return Period	Flow(cfs)
2 year	1.61631
5 year	1.916545
10 year	2.078768
25 year	2.254012
50 year	2.367762
100 year	2.470036

Flow Frequency Return Periods for Mitigated. POC #69

Return Period	Flow(cfs)
2 year	1.61631
5 year	1.916545
10 year	2.078768
25 year	2.254012
50 year	2.367762
100 year	2.470036

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #69

Year	Predeveloped	Mitigated
1956	1.694	1.694
1957	2.120	2.120
1958	1.641	1.641
1959	1.617	1.617
1960	1.679	1.679
1961	1.382	1.382
1962	2.218	2.218
1963	2.040	2.040
1964	1.775	1.775
1965	1.763	1.763
1966	1.719	1.719

1967	1.102	1.102
1968	1.664	1.664
1969	1.575	1.575
1970	1.504	1.504
1971	2.267	2.267
1972	1.912	1.912
1973	1.801	1.801
1974	1.711	1.711
1975	1.521	1.521
1976	1.859	1.859
1977	1.352	1.352
1978	2.362	2.362
1979	1.481	1.481
1980	1.367	1.367
1981	1.750	1.750
1982	2.017	2.017
1983	1.591	1.591
1984	1.464	1.464
1985	1.127	1.127
1986	1.777	1.777
1987	1.240	1.240
1988	1.878	1.878
1989	1.589	1.589
1990	2.048	2.048
1991	1.355	1.355
1992	1.065	1.065
1993	1.198	1.198
1994	1.500	1.500
1995	1.477	1.477
1996	1.795	1.795
1997	1.750	1.750
1998	1.093	1.093
1999	1.383	1.383
2000	1.271	1.271
2001	1.257	1.257
2002	1.931	1.931
2003	2.161	2.161
2004	2.013	2.013
2005	1.596	1.596
2006	1.625	1.625
2007	1.914	1.914
2008	1.012	1.012
2009	0.958	0.958

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #69

Rank	Predeveloped	Mitigated
1	2.3625	2.3625
2	2.2672	2.2672
3	2.2177	2.2177
4	2.1608	2.1608
5	2.1203	2.1203
6	2.0480	2.0480
7	2.0399	2.0399
8	2.0174	2.0174
9	2.0131	2.0131
10	1.9311	1.9311
11	1.9142	1.9142

12	1.9120	1.9120
13	1.8783	1.8783
14	1.8589	1.8589
15	1.8012	1.8012
16	1.7955	1.7955
17	1.7771	1.7771
18	1.7746	1.7746
19	1.7631	1.7631
20	1.7500	1.7500
21	1.7498	1.7498
22	1.7189	1.7189
23	1.7107	1.7107
24	1.6942	1.6942
25	1.6794	1.6794
26	1.6636	1.6636
27	1.6405	1.6405
28	1.6253	1.6253
29	1.6171	1.6171
30	1.5960	1.5960
31	1.5910	1.5910
32	1.5887	1.5887
33	1.5752	1.5752
34	1.5207	1.5207
35	1.5044	1.5044
36	1.5002	1.5002
37	1.4805	1.4805
38	1.4770	1.4770
39	1.4641	1.4641
40	1.3833	1.3833
41	1.3818	1.3818
42	1.3669	1.3669
43	1.3551	1.3551
44	1.3522	1.3522
45	1.2714	1.2714
46	1.2567	1.2567
47	1.2405	1.2405
48	1.1983	1.1983
49	1.1271	1.1271
50	1.1016	1.1016
51	1.0930	1.0930
52	1.0652	1.0652
53	1.0123	1.0123
54	0.9581	0.9581

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.8082	1097	1097	100	Pass
0.8239	1029	1029	100	Pass
0.8397	957	957	100	Pass
0.8554	886	886	100	Pass
0.8712	830	830	100	Pass
0.8869	770	770	100	Pass
0.9027	713	713	100	Pass
0.9184	658	658	100	Pass
0.9342	607	607	100	Pass
0.9499	563	563	100	Pass
0.9657	528	528	100	Pass
0.9814	493	493	100	Pass
0.9972	461	461	100	Pass
1.0130	425	425	100	Pass
1.0287	395	395	100	Pass
1.0445	368	368	100	Pass
1.0602	344	344	100	Pass
1.0760	321	321	100	Pass
1.0917	299	299	100	Pass
1.1075	285	285	100	Pass
1.1232	267	267	100	Pass
1.1390	256	256	100	Pass
1.1547	238	238	100	Pass
1.1705	228	228	100	Pass
1.1862	216	216	100	Pass
1.2020	203	203	100	Pass
1.2177	194	194	100	Pass
1.2335	185	185	100	Pass
1.2493	174	174	100	Pass
1.2650	166	166	100	Pass
1.2808	159	159	100	Pass
1.2965	151	151	100	Pass
1.3123	142	142	100	Pass
1.3280	135	135	100	Pass
1.3438	127	127	100	Pass
1.3595	116	116	100	Pass
1.3753	108	108	100	Pass
1.3910	100	100	100	Pass
1.4068	98	98	100	Pass
1.4225	93	93	100	Pass
1.4383	91	91	100	Pass
1.4541	89	89	100	Pass
1.4698	81	81	100	Pass
1.4856	77	77	100	Pass
1.5013	73	73	100	Pass
1.5171	70	70	100	Pass
1.5328	64	64	100	Pass
1.5486	63	63	100	Pass
1.5643	61	61	100	Pass
1.5801	57	57	100	Pass
1.5958	53	53	100	Pass
1.6116	51	51	100	Pass
1.6273	46	46	100	Pass

1.6431	43	43	100	Pass
1.6588	43	43	100	Pass
1.6746	42	42	100	Pass
1.6904	40	40	100	Pass
1.7061	38	38	100	Pass
1.7219	34	34	100	Pass
1.7376	34	34	100	Pass
1.7534	32	32	100	Pass
1.7691	28	28	100	Pass
1.7849	26	26	100	Pass
1.8006	24	24	100	Pass
1.8164	23	23	100	Pass
1.8321	23	23	100	Pass
1.8479	23	23	100	Pass
1.8636	21	21	100	Pass
1.8794	18	18	100	Pass
1.8952	18	18	100	Pass
1.9109	17	17	100	Pass
1.9267	14	14	100	Pass
1.9424	13	13	100	Pass
1.9582	12	12	100	Pass
1.9739	11	11	100	Pass
1.9897	11	11	100	Pass
2.0054	11	11	100	Pass
2.0212	9	9	100	Pass
2.0369	9	9	100	Pass
2.0527	6	6	100	Pass
2.0684	6	6	100	Pass
2.0842	6	6	100	Pass
2.1000	6	6	100	Pass
2.1157	6	6	100	Pass
2.1315	5	5	100	Pass
2.1472	4	4	100	Pass
2.1630	3	3	100	Pass
2.1787	3	3	100	Pass
2.1945	3	3	100	Pass
2.2102	3	3	100	Pass
2.2260	2	2	100	Pass
2.2417	2	2	100	Pass
2.2575	2	2	100	Pass
2.2732	1	1	100	Pass
2.2890	1	1	100	Pass
2.3047	1	1	100	Pass
2.3205	1	1	100	Pass
2.3363	1	1	100	Pass
2.3520	1	1	100	Pass
2.3678	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #69

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report



Model Default Modifications

Total of 0 changes have been made.

PERLND Changes

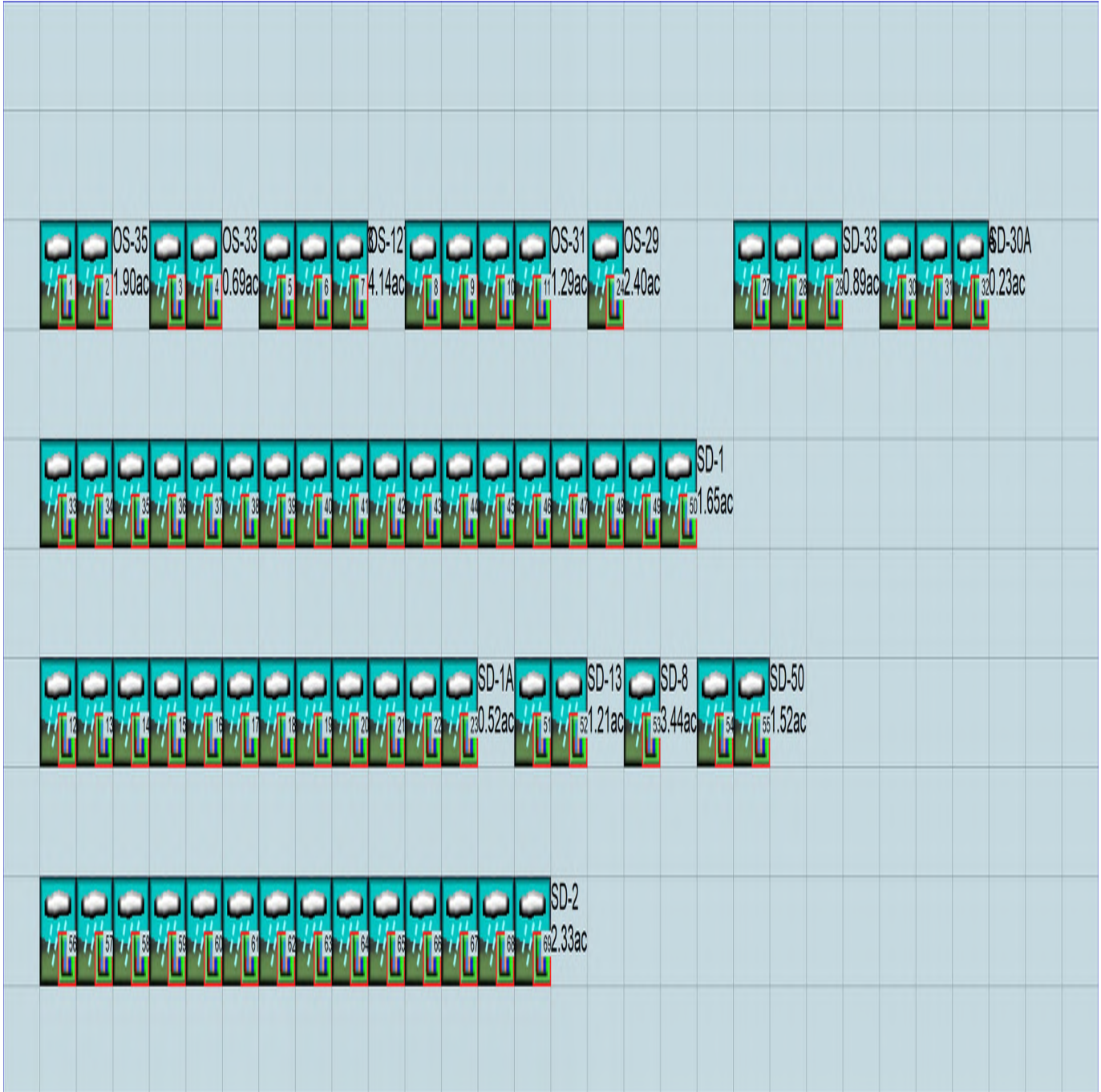
No PERLND changes have been made.

IMPLND Changes

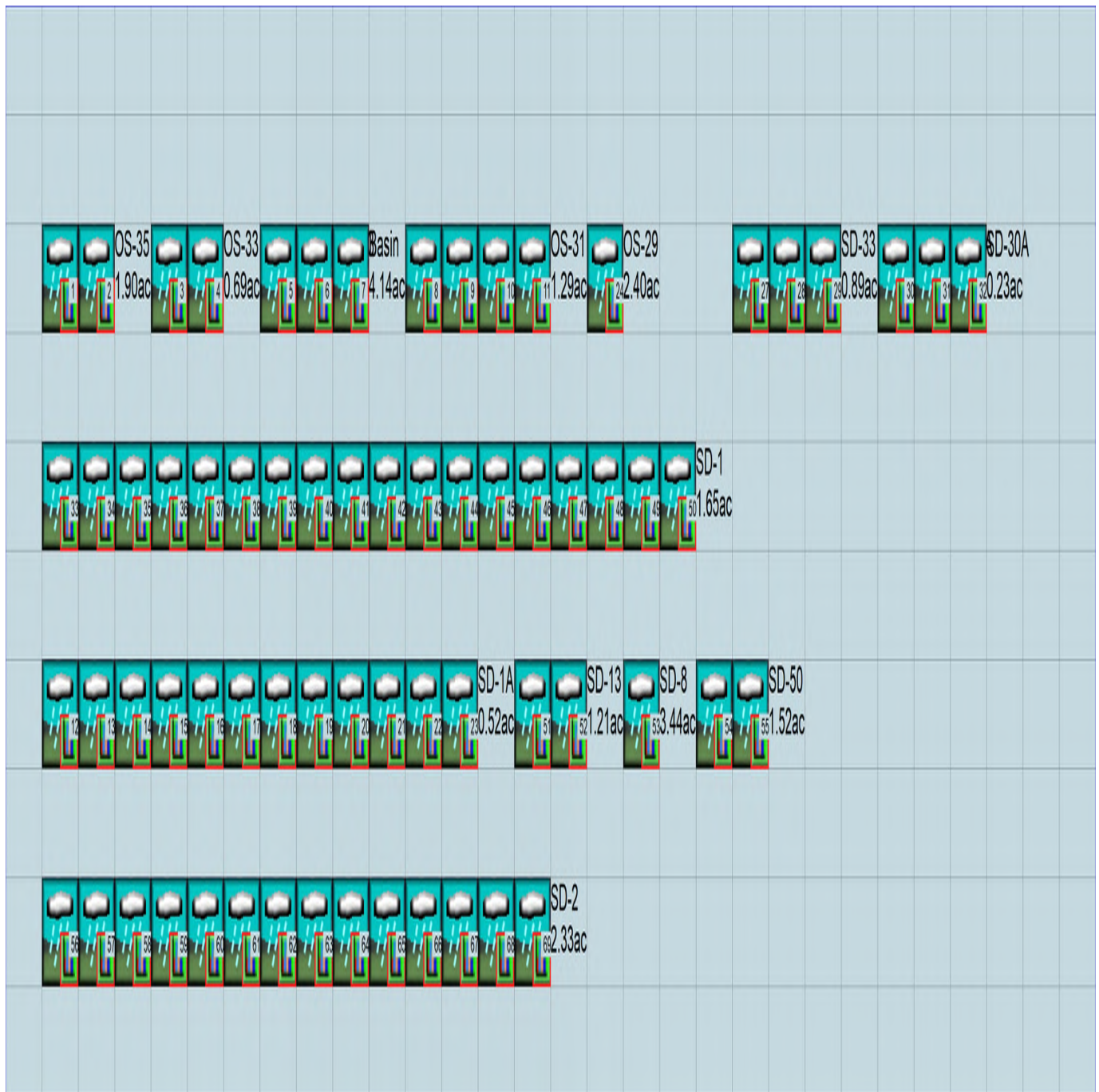
No IMPLND changes have been made.

Appendix

Predeveloped Schematic



Mitigated Schematic



Predeveloped UCI File

RUN

GLOBAL

```
WVHM4 model simulation
START      1955 10 01      END      2009 09 30
RUN INTERP OUTPUT LEVEL   3      0
RESUME     0 RUN         1
UNIT SYSTEM                                1
END GLOBAL
```

FILES

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<File> <Un#> <-----File Name----->***
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WDM      26      EMERSON WVHM.wdm
MESSU    25      PreEMERSON WVHM.MES
          27      PreEMERSON WVHM.L61
          28      PreEMERSON WVHM.L62
          30      POCEMERSON WVHM1.dat
          31      POCEMERSON WVHM2.dat
          32      POCEMERSON WVHM3.dat
          33      POCEMERSON WVHM4.dat
          34      POCEMERSON WVHM5.dat
          35      POCEMERSON WVHM6.dat
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          82      POCEMERSON WVHM53.dat
          83      POCEMERSON WVHM54.dat
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84 POCEMERSON WWHM55.dat
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97 POCEMERSON WWHM68.dat
98 POCEMERSON WWHM69.dat

END FILES

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DISPLY 66
DISPLY 67
DISPLY 68
DISPLY 69

END INGRP

END OPN SEQUENCE

DISPLY

DISPLY-INF01

#	#<-----Title----->	***TRAN	PIVL	DIG1	FIL1	PYR	DIG2	FIL2	YRND
1	OS-62	MAX				1	2	30	9
2	OS-35	MAX				1	2	31	9
3	OS-60	MAX				1	2	32	9
4	OS-33	MAX				1	2	33	9
5	OS-165	MAX				1	2	34	9
6	OS-153	MAX				1	2	35	9
7	OS-127	MAX				1	2	36	9
8	OS-90	MAX				1	2	37	9
9	OS-82	MAX				1	2	38	9
10	OS-58	MAX				1	2	39	9
11	OS-31	MAX				1	2	40	9
33	OS-22	MAX				1	2	62	9
34	OS-21	MAX				1	2	63	9
35	OS-20	MAX				1	2	64	9
36	OS-19	MAX				1	2	65	9
37	OS-18	MAX				1	2	66	9
38	OS-17	MAX				1	2	67	9
39	OS-16	MAX				1	2	68	9
40	OS-15	MAX				1	2	69	9
41	OS-14	MAX				1	2	70	9
42	OS-13	MAX				1	2	71	9
43	OS-12	MAX				1	2	72	9
44	OS-11A	MAX				1	2	73	9
45	OS-9	MAX				1	2	74	9
46	OS-8	MAX				1	2	75	9
47	OS-7	MAX				1	2	76	9
48	OS-5	MAX				1	2	77	9
49	OS-2	MAX				1	2	78	9
12	CBSD-32	MAX				1	2	41	9
13	SD-31	MAX				1	2	42	9
14	SD-30	MAX				1	2	43	9
15	SD-21	MAX				1	2	44	9
16	SD-20	MAX				1	2	45	9
17	SD-14	MAX				1	2	46	9
18	SD-6A	MAX				1	2	47	9
19	SD-5A	MAX				1	2	48	9
20	SD-4A	MAX				1	2	49	9
21	SD-3A	MAX				1	2	50	9
22	SD-2A	MAX				1	2	51	9
23	SD-1A	MAX				1	2	52	9
24	OS-29	MAX				1	2	53	9
27	SD-48	MAX				1	2	56	9
28	SD-34	MAX				1	2	57	9
29	SD-33	MAX				1	2	58	9
30	SD-32A	MAX				1	2	59	9
31	OS-31A	MAX				1	2	60	9
32	SD-30A	MAX				1	2	61	9
50	SD-1	MAX				1	2	79	9
51	SD-17	MAX				1	2	80	9

52	SD-13	MAX	1	2	81	9
53	SD-8	MAX	1	2	82	9
54	SD-51	MAX	1	2	83	9
55	SD-50	MAX	1	2	84	9
56	SD-200	MAX	1	2	85	9
57	SD-8A	MAX	1	2	86	9
58	SD-80	MAX	1	2	87	9
59	SD-82	MAX	1	2	88	9
60	SD-18	MAX	1	2	89	9
61	SD-12	MAX	1	2	90	9
62	SD-11	MAX	1	2	91	9
63	SD-10	MAX	1	2	92	9
64	SD-7	MAX	1	2	93	9
65	SD-6	MAX	1	2	94	9
66	SD-5	MAX	1	2	95	9
67	SD-4	MAX	1	2	96	9
68	SD-3	MAX	1	2	97	9
69	SD-2	MAX	1	2	98	9

END DISPLY-INFO1
END DISPLY
COPY

TIMESERIES

#	-	#	NPT	NMN	***
1			1	1	
501			1	1	
502			1	1	
503			1	1	
504			1	1	
505			1	1	
506			1	1	
507			1	1	
508			1	1	
509			1	1	
510			1	1	
511			1	1	
533			1	1	
534			1	1	
535			1	1	
536			1	1	
537			1	1	
538			1	1	
539			1	1	
540			1	1	
541			1	1	
542			1	1	
543			1	1	
544			1	1	
545			1	1	
546			1	1	
547			1	1	
548			1	1	
549			1	1	
512			1	1	
513			1	1	
514			1	1	
515			1	1	
516			1	1	
517			1	1	
518			1	1	
519			1	1	
520			1	1	
521			1	1	
522			1	1	
523			1	1	
524			1	1	
527			1	1	
528			1	1	
529			1	1	
530			1	1	
531			1	1	

```

532      1      1
550      1      1
551      1      1
552      1      1
553      1      1
554      1      1
555      1      1
556      1      1
557      1      1
558      1      1
559      1      1
560      1      1
561      1      1
562      1      1
563      1      1
564      1      1
565      1      1
566      1      1
567      1      1
568      1      1
569      1      1

```

```

END TIMESERIES
END COPY

```

```

GENER
  OPCODE
    #      # OPCODE ***
  END OPCODE
  PARM
    #      #          K ***
  END PARM
END GENER

```

```

PERLND
GEN-INFO
  <PLS ><-----Name----->NBLKS      Unit-systems      Printer ***
  # - #                               User  t-series Engl Metr ***
                                     in  out          ***
  16      C, Lawn, Flat                1      1      1      1      27      0
  12      C, Forest, Steep             1      1      1      1      27      0
END GEN-INFO
*** Section PWATER***

```

```

ACTIVITY
  <PLS > ***** Active Sections *****
  # - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC ***
  16      0      0      1      0      0      0      0      0      0      0      0      0
  12      0      0      1      0      0      0      0      0      0      0      0      0
END ACTIVITY

```

```

PRINT-INFO
  <PLS > ***** Print-flags ***** PIVL  PYR
  # - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC *****
  16      0      0      4      0      0      0      0      0      0      0      0      0      1      9
  12      0      0      4      0      0      0      0      0      0      0      0      0      1      9
END PRINT-INFO

```

```

PWAT-PARM1
  <PLS > PWATER variable monthly parameter value flags ***
  # - # CSNO RTOP UZFG  VCS  VUZ  VNN VIFW VIRC  VLE INFC  HWT ***
  16      0      0      0      0      0      0      0      0      0      0      0
  12      0      0      0      0      0      0      0      0      0      0      0
END PWAT-PARM1

```

```

PWAT-PARM2
  <PLS > PWATER input info: Part 2          ***
  # - # ***FOREST      LZSN      INFILT      LSUR      SLSUR      KVARY      AGWRC
  16      0      4.5      0.03      400      0.05      0.5      0.996
  12      0      4.5      0.08      400      0.15      0.5      0.996
END PWAT-PARM2

```

```

PWAT-PARM3

```

```

      <PLS >          PWATER input info: Part 3          ***
      # - # ***PETMAX    PETMIN    INFEXP    INFILD    DEEPFR    BASETP    AGWETP
      16          0          0          2          2          0          0          0
      12          0          0          2          2          0          0          0
END PWAT-PARM3
PWAT-PARM4
      <PLS >          PWATER input info: Part 4          ***
      # - #          CEPSC    UZSN    NSUR    INTFW    IRC    LZETP ***
      16          0.1    0.25    0.25    6          0.5    0.25
      12          0.2    0.3    0.35    6          0.3    0.7
END PWAT-PARM4

PWAT-STATE1
      <PLS > *** Initial conditions at start of simulation
      ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
      # - # *** CEPS    SURS    UZS    IFWS    LZS    AGWS    GWVS
      16          0          0          0          0    2.5    1    0
      12          0          0          0          0    2.5    1    0
END PWAT-STATE1

END PERLND

IMPLND
GEN-INFO
      <PLS ><-----Name----->    Unit-systems    Printer ***
      # - #          User t-series Engl Metr ***
      #          in out ***
      1          ROADS/FLAT          1    1    1    27    0
END GEN-INFO
*** Section IWATER***

ACTIVITY
      <PLS > ***** Active Sections *****
      # - # ATMP SNOW IWAT SLD IWG IQAL ***
      1          0    0    1    0    0    0
END ACTIVITY

PRINT-INFO
      <ILS > ***** Print-flags ***** PIVL PYR
      # - # ATMP SNOW IWAT SLD IWG IQAL *****
      1          0    0    4    0    0    0    1    9
END PRINT-INFO

IWAT-PARM1
      <PLS > IWATER variable monthly parameter value flags ***
      # - # CSNO RTOP VRS VNN RTLI ***
      1          0    0    0    0    0
END IWAT-PARM1

IWAT-PARM2
      <PLS >          IWATER input info: Part 2          ***
      # - # *** LSUR    SLSUR    NSUR    RETSC
      1          400    0.01    0.1    0.1
END IWAT-PARM2

IWAT-PARM3
      <PLS >          IWATER input info: Part 3          ***
      # - # ***PETMAX    PETMIN
      1          0          0
END IWAT-PARM3

IWAT-STATE1
      <PLS > *** Initial conditions at start of simulation
      # - # *** RETS    SURS
      1          0          0
END IWAT-STATE1

END IMPLND

SCHEMATIC

EMERSON WWHM

```

<-Source-> <Name> #	<--Area--> <-factor-->	<-Target-> <Name> #	MBLK Tbl#	*** ***
OS-62***				
PERLND 16	3.04	COPY 501	12	
PERLND 16	3.04	COPY 501	13	
IMPLND 1	2.81	COPY 501	15	
OS-35***				
PERLND 16	0.99	COPY 502	12	
PERLND 16	0.99	COPY 502	13	
IMPLND 1	0.91	COPY 502	15	
OS-60***				
PERLND 16	4.49	COPY 503	12	
PERLND 16	4.49	COPY 503	13	
IMPLND 1	4.15	COPY 503	15	
OS-33***				
PERLND 16	0.36	COPY 504	12	
PERLND 16	0.36	COPY 504	13	
IMPLND 1	0.33	COPY 504	15	
OS-165***				
PERLND 16	4.43	COPY 505	12	
PERLND 16	4.43	COPY 505	13	
IMPLND 1	4.09	COPY 505	15	
OS-153***				
PERLND 16	3.11	COPY 506	12	
PERLND 16	3.11	COPY 506	13	
IMPLND 1	2.87	COPY 506	15	
OS-127***				
PERLND 16	2.15	COPY 507	12	
PERLND 16	2.15	COPY 507	13	
IMPLND 1	1.99	COPY 507	15	
OS-90***				
PERLND 16	1.84	COPY 508	12	
PERLND 16	1.84	COPY 508	13	
IMPLND 1	1.7	COPY 508	15	
OS-82***				
PERLND 16	4.03	COPY 509	12	
PERLND 16	4.03	COPY 509	13	
IMPLND 1	3.27	COPY 509	15	
OS-58***				
PERLND 16	1.4	COPY 510	12	
PERLND 16	1.4	COPY 510	13	
IMPLND 1	1.29	COPY 510	15	
OS-31***				
PERLND 16	0.67	COPY 511	12	
PERLND 16	0.67	COPY 511	13	
IMPLND 1	0.62	COPY 511	15	
OS-22***				
PERLND 16	4.52	COPY 533	12	
PERLND 16	4.52	COPY 533	13	
IMPLND 1	4.17	COPY 533	15	
OS-21***				
PERLND 16	5.27	COPY 534	12	
PERLND 16	5.27	COPY 534	13	
IMPLND 1	4.87	COPY 534	15	
OS-20***				
PERLND 16	2.11	COPY 535	12	
PERLND 16	2.11	COPY 535	13	
IMPLND 1	1.95	COPY 535	15	
OS-19***				
PERLND 16	0.62	COPY 536	12	
PERLND 16	0.62	COPY 536	13	
IMPLND 1	0.57	COPY 536	15	
OS-18***				
PERLND 16	1.47	COPY 537	12	
PERLND 16	1.47	COPY 537	13	
IMPLND 1	1.36	COPY 537	15	
OS-17***				
PERLND 16	1.67	COPY 538	12	
PERLND 16	1.67	COPY 538	13	
IMPLND 1	1.54	COPY 538	15	

OS-16***					
PERLND	16	0.58	COPY	539	12
PERLND	16	0.58	COPY	539	13
IMPLND	1	0.54	COPY	539	15
OS-15***					
PERLND	16	1.49	COPY	540	12
PERLND	16	1.49	COPY	540	13
IMPLND	1	1.37	COPY	540	15
OS-14***					
PERLND	16	2.2	COPY	541	12
PERLND	16	2.2	COPY	541	13
IMPLND	1	2.03	COPY	541	15
OS-13***					
PERLND	16	2.27	COPY	542	12
PERLND	16	2.27	COPY	542	13
IMPLND	1	2.09	COPY	542	15
OS-12***					
PERLND	16	0.78	COPY	543	12
PERLND	16	0.78	COPY	543	13
IMPLND	1	0.72	COPY	543	15
OS-11A***					
PERLND	16	0.8	COPY	544	12
PERLND	16	0.8	COPY	544	13
IMPLND	1	0.73	COPY	544	15
OS-9***					
PERLND	16	1.6	COPY	545	12
PERLND	16	1.6	COPY	545	13
IMPLND	1	1.47	COPY	545	15
OS-8***					
PERLND	16	2.13	COPY	546	12
PERLND	16	2.13	COPY	546	13
IMPLND	1	1.96	COPY	546	15
OS-7***					
PERLND	16	0.63	COPY	547	12
PERLND	16	0.63	COPY	547	13
IMPLND	1	0.58	COPY	547	15
OS-5***					
PERLND	16	0.01	COPY	548	12
PERLND	16	0.01	COPY	548	13
IMPLND	1	0.07	COPY	548	15
OS-2***					
PERLND	16	0.02	COPY	549	12
PERLND	16	0.02	COPY	549	13
IMPLND	1	0.16	COPY	549	15
CBSD-32***					
PERLND	16	5.06	COPY	512	12
PERLND	16	5.06	COPY	512	13
IMPLND	1	4.68	COPY	512	15
SD-31***					
PERLND	16	10.11	COPY	513	12
PERLND	16	10.11	COPY	513	13
IMPLND	1	9.34	COPY	513	15
SD-30***					
PERLND	16	0.04	COPY	514	12
PERLND	16	0.04	COPY	514	13
IMPLND	1	0.03	COPY	514	15
SD-21***					
PERLND	16	2.1	COPY	515	12
PERLND	16	2.1	COPY	515	13
IMPLND	1	1.94	COPY	515	15
SD-20***					
PERLND	16	3.24	COPY	516	12
PERLND	16	3.24	COPY	516	13
IMPLND	1	2.99	COPY	516	15
SD-14***					
PERLND	16	2.83	COPY	517	12
PERLND	16	2.83	COPY	517	13
IMPLND	1	2.61	COPY	517	15
SD-6A***					
PERLND	16	0.64	COPY	518	12

PERLND	16	0.64	COPY	518	13
IMPLND	1	0.59	COPY	518	15
SD-5A***					
PERLND	16	1.68	COPY	519	12
PERLND	16	1.68	COPY	519	13
IMPLND	1	1.55	COPY	519	15
SD-4A***					
PERLND	16	5.54	COPY	520	12
PERLND	16	5.54	COPY	520	13
IMPLND	1	5.11	COPY	520	15
SD-3A***					
PERLND	16	6.18	COPY	521	12
PERLND	16	6.18	COPY	521	13
IMPLND	1	5.7	COPY	521	15
SD-2A***					
PERLND	16	0.63	COPY	522	12
PERLND	16	0.63	COPY	522	13
IMPLND	1	0.59	COPY	522	15
SD-1A***					
PERLND	16	0.27	COPY	523	12
PERLND	16	0.27	COPY	523	13
IMPLND	1	0.25	COPY	523	15
OS-29***					
PERLND	16	1.25	COPY	524	12
PERLND	16	1.25	COPY	524	13
IMPLND	1	1.15	COPY	524	15
SD-48***					
PERLND	16	0.3	COPY	527	12
PERLND	16	0.3	COPY	527	13
IMPLND	1	2.18	COPY	527	15
SD-34***					
PERLND	16	0.59	COPY	528	12
PERLND	16	0.59	COPY	528	13
IMPLND	1	4.34	COPY	528	15
SD-33***					
PERLND	16	0.11	COPY	529	12
PERLND	16	0.11	COPY	529	13
IMPLND	1	0.78	COPY	529	15
SD-32A***					
PERLND	16	0.1	COPY	530	12
PERLND	16	0.1	COPY	530	13
IMPLND	1	0.71	COPY	530	15
OS-31A***					
PERLND	16	0.2	COPY	531	12
PERLND	16	0.2	COPY	531	13
IMPLND	1	0.14	COPY	531	15
SD-30A***					
PERLND	16	0.03	COPY	532	12
PERLND	16	0.03	COPY	532	13
IMPLND	1	0.2	COPY	532	15
SD-1***					
PERLND	16	0.2	COPY	550	12
PERLND	16	0.2	COPY	550	13
IMPLND	1	1.45	COPY	550	15
SD-17***					
PERLND	16	0.53	COPY	551	12
PERLND	16	0.53	COPY	551	13
IMPLND	1	0.48	COPY	551	15
SD-13***					
PERLND	16	0.63	COPY	552	12
PERLND	16	0.63	COPY	552	13
IMPLND	1	0.58	COPY	552	15
SD-8***					
PERLND	16	1.79	COPY	553	12
PERLND	16	1.79	COPY	553	13
IMPLND	1	1.65	COPY	553	15
SD-51***					
PERLND	16	0.64	COPY	554	12
PERLND	16	0.64	COPY	554	13
IMPLND	1	0.59	COPY	554	15

SD-50***					
PERLND	16	0.79	COPY	555	12
PERLND	16	0.79	COPY	555	13
IMPLND	1	0.73	COPY	555	15
SD-200***					
PERLND	12	10.45	COPY	556	12
PERLND	12	10.45	COPY	556	13
PERLND	16	0.11	COPY	556	12
PERLND	16	0.11	COPY	556	13
SD-8A***					
PERLND	12	4.2	COPY	557	12
PERLND	12	4.2	COPY	557	13
PERLND	16	0.04	COPY	557	12
PERLND	16	0.04	COPY	557	13
SD-80***					
PERLND	16	0.54	COPY	558	12
PERLND	16	0.54	COPY	558	13
IMPLND	1	0.5	COPY	558	15
SD-82***					
PERLND	16	5.04	COPY	559	12
PERLND	16	5.04	COPY	559	13
IMPLND	1	4.65	COPY	559	15
SD-18***					
PERLND	16	0.72	COPY	560	12
PERLND	16	0.72	COPY	560	13
IMPLND	1	0.66	COPY	560	15
SD-12***					
PERLND	16	2.25	COPY	561	12
PERLND	16	2.25	COPY	561	13
IMPLND	1	2.08	COPY	561	15
SD-11***					
PERLND	16	0.56	COPY	562	12
PERLND	16	0.56	COPY	562	13
IMPLND	1	0.52	COPY	562	15
SD-10***					
PERLND	16	2.07	COPY	563	12
PERLND	16	2.07	COPY	563	13
IMPLND	1	1.91	COPY	563	15
SD-7***					
PERLND	16	0.56	COPY	564	12
PERLND	16	0.56	COPY	564	13
IMPLND	1	0.52	COPY	564	15
SD-6***					
PERLND	16	0.39	COPY	565	12
PERLND	16	0.39	COPY	565	13
IMPLND	1	0.36	COPY	565	15
SD-5***					
PERLND	16	0.26	COPY	566	12
PERLND	16	0.26	COPY	566	13
IMPLND	1	1.89	COPY	566	15
SD-4***					
PERLND	16	0.46	COPY	567	12
PERLND	16	0.46	COPY	567	13
IMPLND	1	0.43	COPY	567	15
SD-3***					
PERLND	16	0.13	COPY	568	12
PERLND	16	0.13	COPY	568	13
IMPLND	1	0.95	COPY	568	15
SD-2***					
PERLND	16	0.28	COPY	569	12
PERLND	16	0.28	COPY	569	13
IMPLND	1	2.05	COPY	569	15

*****Routing*****
 END SCHEMATIC

NETWORK

<-Volume->	<-Grp>	<-Member->	<--Mult-->	Tran	<-Target vols>	<-Grp>	<-Member->	***				
<Name>	#	<Name>	#	<-factor-->	strg	<Name>	#	***				
COPY	501	OUTPUT	MEAN	1	1	48.4	DISPLY	1	INPUT	TIMSER	1	***

COPY	502	OUTPUT	MEAN	1	1	48.4	DISPLY	2	INPUT	TIMSER	1
COPY	503	OUTPUT	MEAN	1	1	48.4	DISPLY	3	INPUT	TIMSER	1
COPY	504	OUTPUT	MEAN	1	1	48.4	DISPLY	4	INPUT	TIMSER	1
COPY	505	OUTPUT	MEAN	1	1	48.4	DISPLY	5	INPUT	TIMSER	1
COPY	506	OUTPUT	MEAN	1	1	48.4	DISPLY	6	INPUT	TIMSER	1
COPY	507	OUTPUT	MEAN	1	1	48.4	DISPLY	7	INPUT	TIMSER	1
COPY	508	OUTPUT	MEAN	1	1	48.4	DISPLY	8	INPUT	TIMSER	1
COPY	509	OUTPUT	MEAN	1	1	48.4	DISPLY	9	INPUT	TIMSER	1
COPY	510	OUTPUT	MEAN	1	1	48.4	DISPLY	10	INPUT	TIMSER	1
COPY	511	OUTPUT	MEAN	1	1	48.4	DISPLY	11	INPUT	TIMSER	1
COPY	533	OUTPUT	MEAN	1	1	48.4	DISPLY	33	INPUT	TIMSER	1
COPY	534	OUTPUT	MEAN	1	1	48.4	DISPLY	34	INPUT	TIMSER	1
COPY	535	OUTPUT	MEAN	1	1	48.4	DISPLY	35	INPUT	TIMSER	1
COPY	536	OUTPUT	MEAN	1	1	48.4	DISPLY	36	INPUT	TIMSER	1
COPY	537	OUTPUT	MEAN	1	1	48.4	DISPLY	37	INPUT	TIMSER	1
COPY	538	OUTPUT	MEAN	1	1	48.4	DISPLY	38	INPUT	TIMSER	1
COPY	539	OUTPUT	MEAN	1	1	48.4	DISPLY	39	INPUT	TIMSER	1
COPY	540	OUTPUT	MEAN	1	1	48.4	DISPLY	40	INPUT	TIMSER	1
COPY	541	OUTPUT	MEAN	1	1	48.4	DISPLY	41	INPUT	TIMSER	1
COPY	542	OUTPUT	MEAN	1	1	48.4	DISPLY	42	INPUT	TIMSER	1
COPY	543	OUTPUT	MEAN	1	1	48.4	DISPLY	43	INPUT	TIMSER	1
COPY	544	OUTPUT	MEAN	1	1	48.4	DISPLY	44	INPUT	TIMSER	1
COPY	545	OUTPUT	MEAN	1	1	48.4	DISPLY	45	INPUT	TIMSER	1
COPY	546	OUTPUT	MEAN	1	1	48.4	DISPLY	46	INPUT	TIMSER	1
COPY	547	OUTPUT	MEAN	1	1	48.4	DISPLY	47	INPUT	TIMSER	1
COPY	548	OUTPUT	MEAN	1	1	48.4	DISPLY	48	INPUT	TIMSER	1
COPY	549	OUTPUT	MEAN	1	1	48.4	DISPLY	49	INPUT	TIMSER	1
COPY	512	OUTPUT	MEAN	1	1	48.4	DISPLY	12	INPUT	TIMSER	1
COPY	513	OUTPUT	MEAN	1	1	48.4	DISPLY	13	INPUT	TIMSER	1
COPY	514	OUTPUT	MEAN	1	1	48.4	DISPLY	14	INPUT	TIMSER	1
COPY	515	OUTPUT	MEAN	1	1	48.4	DISPLY	15	INPUT	TIMSER	1
COPY	516	OUTPUT	MEAN	1	1	48.4	DISPLY	16	INPUT	TIMSER	1
COPY	517	OUTPUT	MEAN	1	1	48.4	DISPLY	17	INPUT	TIMSER	1
COPY	518	OUTPUT	MEAN	1	1	48.4	DISPLY	18	INPUT	TIMSER	1
COPY	519	OUTPUT	MEAN	1	1	48.4	DISPLY	19	INPUT	TIMSER	1
COPY	520	OUTPUT	MEAN	1	1	48.4	DISPLY	20	INPUT	TIMSER	1
COPY	521	OUTPUT	MEAN	1	1	48.4	DISPLY	21	INPUT	TIMSER	1
COPY	522	OUTPUT	MEAN	1	1	48.4	DISPLY	22	INPUT	TIMSER	1
COPY	523	OUTPUT	MEAN	1	1	48.4	DISPLY	23	INPUT	TIMSER	1
COPY	524	OUTPUT	MEAN	1	1	48.4	DISPLY	24	INPUT	TIMSER	1
COPY	527	OUTPUT	MEAN	1	1	48.4	DISPLY	27	INPUT	TIMSER	1
COPY	528	OUTPUT	MEAN	1	1	48.4	DISPLY	28	INPUT	TIMSER	1
COPY	529	OUTPUT	MEAN	1	1	48.4	DISPLY	29	INPUT	TIMSER	1
COPY	530	OUTPUT	MEAN	1	1	48.4	DISPLY	30	INPUT	TIMSER	1
COPY	531	OUTPUT	MEAN	1	1	48.4	DISPLY	31	INPUT	TIMSER	1
COPY	532	OUTPUT	MEAN	1	1	48.4	DISPLY	32	INPUT	TIMSER	1
COPY	550	OUTPUT	MEAN	1	1	48.4	DISPLY	50	INPUT	TIMSER	1
COPY	551	OUTPUT	MEAN	1	1	48.4	DISPLY	51	INPUT	TIMSER	1
COPY	552	OUTPUT	MEAN	1	1	48.4	DISPLY	52	INPUT	TIMSER	1
COPY	553	OUTPUT	MEAN	1	1	48.4	DISPLY	53	INPUT	TIMSER	1
COPY	554	OUTPUT	MEAN	1	1	48.4	DISPLY	54	INPUT	TIMSER	1
COPY	555	OUTPUT	MEAN	1	1	48.4	DISPLY	55	INPUT	TIMSER	1
COPY	556	OUTPUT	MEAN	1	1	48.4	DISPLY	56	INPUT	TIMSER	1
COPY	557	OUTPUT	MEAN	1	1	48.4	DISPLY	57	INPUT	TIMSER	1
COPY	558	OUTPUT	MEAN	1	1	48.4	DISPLY	58	INPUT	TIMSER	1
COPY	559	OUTPUT	MEAN	1	1	48.4	DISPLY	59	INPUT	TIMSER	1
COPY	560	OUTPUT	MEAN	1	1	48.4	DISPLY	60	INPUT	TIMSER	1
COPY	561	OUTPUT	MEAN	1	1	48.4	DISPLY	61	INPUT	TIMSER	1
COPY	562	OUTPUT	MEAN	1	1	48.4	DISPLY	62	INPUT	TIMSER	1
COPY	563	OUTPUT	MEAN	1	1	48.4	DISPLY	63	INPUT	TIMSER	1
COPY	564	OUTPUT	MEAN	1	1	48.4	DISPLY	64	INPUT	TIMSER	1
COPY	565	OUTPUT	MEAN	1	1	48.4	DISPLY	65	INPUT	TIMSER	1
COPY	566	OUTPUT	MEAN	1	1	48.4	DISPLY	66	INPUT	TIMSER	1
COPY	567	OUTPUT	MEAN	1	1	48.4	DISPLY	67	INPUT	TIMSER	1
COPY	568	OUTPUT	MEAN	1	1	48.4	DISPLY	68	INPUT	TIMSER	1
COPY	569	OUTPUT	MEAN	1	1	48.4	DISPLY	69	INPUT	TIMSER	1

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***

COPY	534	OUTPUT	MEAN	1	1	48.4	WDM	534	FLOW	ENGL	REPL
COPY	535	OUTPUT	MEAN	1	1	48.4	WDM	535	FLOW	ENGL	REPL
COPY	536	OUTPUT	MEAN	1	1	48.4	WDM	536	FLOW	ENGL	REPL
COPY	537	OUTPUT	MEAN	1	1	48.4	WDM	537	FLOW	ENGL	REPL
COPY	538	OUTPUT	MEAN	1	1	48.4	WDM	538	FLOW	ENGL	REPL
COPY	539	OUTPUT	MEAN	1	1	48.4	WDM	539	FLOW	ENGL	REPL
COPY	540	OUTPUT	MEAN	1	1	48.4	WDM	540	FLOW	ENGL	REPL
COPY	541	OUTPUT	MEAN	1	1	48.4	WDM	541	FLOW	ENGL	REPL
COPY	542	OUTPUT	MEAN	1	1	48.4	WDM	542	FLOW	ENGL	REPL
COPY	543	OUTPUT	MEAN	1	1	48.4	WDM	543	FLOW	ENGL	REPL
COPY	544	OUTPUT	MEAN	1	1	48.4	WDM	544	FLOW	ENGL	REPL
COPY	545	OUTPUT	MEAN	1	1	48.4	WDM	545	FLOW	ENGL	REPL
COPY	546	OUTPUT	MEAN	1	1	48.4	WDM	546	FLOW	ENGL	REPL
COPY	547	OUTPUT	MEAN	1	1	48.4	WDM	547	FLOW	ENGL	REPL
COPY	548	OUTPUT	MEAN	1	1	48.4	WDM	548	FLOW	ENGL	REPL
COPY	549	OUTPUT	MEAN	1	1	48.4	WDM	549	FLOW	ENGL	REPL
COPY	512	OUTPUT	MEAN	1	1	48.4	WDM	512	FLOW	ENGL	REPL
COPY	513	OUTPUT	MEAN	1	1	48.4	WDM	513	FLOW	ENGL	REPL
COPY	514	OUTPUT	MEAN	1	1	48.4	WDM	514	FLOW	ENGL	REPL
COPY	515	OUTPUT	MEAN	1	1	48.4	WDM	515	FLOW	ENGL	REPL
COPY	516	OUTPUT	MEAN	1	1	48.4	WDM	516	FLOW	ENGL	REPL
COPY	517	OUTPUT	MEAN	1	1	48.4	WDM	517	FLOW	ENGL	REPL
COPY	518	OUTPUT	MEAN	1	1	48.4	WDM	518	FLOW	ENGL	REPL
COPY	519	OUTPUT	MEAN	1	1	48.4	WDM	519	FLOW	ENGL	REPL
COPY	520	OUTPUT	MEAN	1	1	48.4	WDM	520	FLOW	ENGL	REPL
COPY	521	OUTPUT	MEAN	1	1	48.4	WDM	521	FLOW	ENGL	REPL
COPY	522	OUTPUT	MEAN	1	1	48.4	WDM	522	FLOW	ENGL	REPL
COPY	523	OUTPUT	MEAN	1	1	48.4	WDM	523	FLOW	ENGL	REPL
COPY	524	OUTPUT	MEAN	1	1	48.4	WDM	524	FLOW	ENGL	REPL
COPY	527	OUTPUT	MEAN	1	1	48.4	WDM	527	FLOW	ENGL	REPL
COPY	528	OUTPUT	MEAN	1	1	48.4	WDM	528	FLOW	ENGL	REPL
COPY	529	OUTPUT	MEAN	1	1	48.4	WDM	529	FLOW	ENGL	REPL
COPY	530	OUTPUT	MEAN	1	1	48.4	WDM	530	FLOW	ENGL	REPL
COPY	531	OUTPUT	MEAN	1	1	48.4	WDM	531	FLOW	ENGL	REPL
COPY	532	OUTPUT	MEAN	1	1	48.4	WDM	532	FLOW	ENGL	REPL
COPY	550	OUTPUT	MEAN	1	1	48.4	WDM	550	FLOW	ENGL	REPL
COPY	551	OUTPUT	MEAN	1	1	48.4	WDM	551	FLOW	ENGL	REPL
COPY	552	OUTPUT	MEAN	1	1	48.4	WDM	552	FLOW	ENGL	REPL
COPY	553	OUTPUT	MEAN	1	1	48.4	WDM	553	FLOW	ENGL	REPL
COPY	554	OUTPUT	MEAN	1	1	48.4	WDM	554	FLOW	ENGL	REPL
COPY	555	OUTPUT	MEAN	1	1	48.4	WDM	555	FLOW	ENGL	REPL
COPY	556	OUTPUT	MEAN	1	1	48.4	WDM	556	FLOW	ENGL	REPL
COPY	557	OUTPUT	MEAN	1	1	48.4	WDM	557	FLOW	ENGL	REPL
COPY	558	OUTPUT	MEAN	1	1	48.4	WDM	558	FLOW	ENGL	REPL
COPY	559	OUTPUT	MEAN	1	1	48.4	WDM	559	FLOW	ENGL	REPL
COPY	560	OUTPUT	MEAN	1	1	48.4	WDM	560	FLOW	ENGL	REPL
COPY	561	OUTPUT	MEAN	1	1	48.4	WDM	561	FLOW	ENGL	REPL
COPY	562	OUTPUT	MEAN	1	1	48.4	WDM	562	FLOW	ENGL	REPL
COPY	563	OUTPUT	MEAN	1	1	48.4	WDM	563	FLOW	ENGL	REPL
COPY	564	OUTPUT	MEAN	1	1	48.4	WDM	564	FLOW	ENGL	REPL
COPY	565	OUTPUT	MEAN	1	1	48.4	WDM	565	FLOW	ENGL	REPL
COPY	566	OUTPUT	MEAN	1	1	48.4	WDM	566	FLOW	ENGL	REPL
COPY	567	OUTPUT	MEAN	1	1	48.4	WDM	567	FLOW	ENGL	REPL
COPY	568	OUTPUT	MEAN	1	1	48.4	WDM	568	FLOW	ENGL	REPL
COPY	569	OUTPUT	MEAN	1	1	48.4	WDM	569	FLOW	ENGL	REPL

END EXT TARGETS

MASS-LINK

<Volume>	<-Grp>	<-Member--><--Mult-->	<Target>	<-Grp>	<-Member-->***
<Name>	<Name>	# #<-factor-->	<Name>	<Name>	# #***
MASS-LINK		12			
PERLND	PWATER	SURO	0.083333	COPY	INPUT MEAN
END MASS-LINK		12			

MASS-LINK		13			
PERLND	PWATER	IFWO	0.083333	COPY	INPUT MEAN
END MASS-LINK		13			

MASS-LINK		15			
IMPLND	IWATER	SURO	0.083333	COPY	INPUT MEAN

END MASS-LINK 15

END MASS-LINK

END RUN

Mitigated UCI File

RUN

GLOBAL

```
WVHM4 model simulation
START      1955 10 01      END      2009 09 30
RUN INTERP OUTPUT LEVEL   3      0
RESUME     0 RUN         1
UNIT SYSTEM                               1
END GLOBAL
```

FILES

```
<File> <Un#> <-----File Name----->***
<-ID->                                     ***
WDM      26      EMERSON WVHM.wdm
MESSU    25      MitEMERSON WVHM.MES
          27      MitEMERSON WVHM.L61
          28      MitEMERSON WVHM.L62
          30      POCEMERSON WVHM1.dat
          31      POCEMERSON WVHM2.dat
          32      POCEMERSON WVHM3.dat
          33      POCEMERSON WVHM4.dat
          34      POCEMERSON WVHM5.dat
          35      POCEMERSON WVHM6.dat
          36      POCEMERSON WVHM7.dat
          37      POCEMERSON WVHM8.dat
          38      POCEMERSON WVHM9.dat
          39      POCEMERSON WVHM10.dat
          40      POCEMERSON WVHM11.dat
          62      POCEMERSON WVHM33.dat
          41      POCEMERSON WVHM12.dat
          42      POCEMERSON WVHM13.dat
          43      POCEMERSON WVHM14.dat
          44      POCEMERSON WVHM15.dat
          45      POCEMERSON WVHM16.dat
          46      POCEMERSON WVHM17.dat
          47      POCEMERSON WVHM18.dat
          48      POCEMERSON WVHM19.dat
          49      POCEMERSON WVHM20.dat
          50      POCEMERSON WVHM21.dat
          51      POCEMERSON WVHM22.dat
          52      POCEMERSON WVHM23.dat
          53      POCEMERSON WVHM24.dat
          56      POCEMERSON WVHM27.dat
          57      POCEMERSON WVHM28.dat
          58      POCEMERSON WVHM29.dat
          59      POCEMERSON WVHM30.dat
          60      POCEMERSON WVHM31.dat
          61      POCEMERSON WVHM32.dat
          63      POCEMERSON WVHM34.dat
          64      POCEMERSON WVHM35.dat
          65      POCEMERSON WVHM36.dat
          66      POCEMERSON WVHM37.dat
          67      POCEMERSON WVHM38.dat
          68      POCEMERSON WVHM39.dat
          69      POCEMERSON WVHM40.dat
          70      POCEMERSON WVHM41.dat
          71      POCEMERSON WVHM42.dat
          72      POCEMERSON WVHM43.dat
          73      POCEMERSON WVHM44.dat
          74      POCEMERSON WVHM45.dat
          75      POCEMERSON WVHM46.dat
          76      POCEMERSON WVHM47.dat
          77      POCEMERSON WVHM48.dat
          78      POCEMERSON WVHM49.dat
          79      POCEMERSON WVHM50.dat
          82      POCEMERSON WVHM53.dat
          83      POCEMERSON WVHM54.dat
          84      POCEMERSON WVHM55.dat
          85      POCEMERSON WVHM56.dat
```


86 POCEMERSON WWHM57.dat
 87 POCEMERSON WWHM58.dat
 88 POCEMERSON WWHM59.dat
 89 POCEMERSON WWHM60.dat
 90 POCEMERSON WWHM61.dat
 91 POCEMERSON WWHM62.dat
 92 POCEMERSON WWHM63.dat
 93 POCEMERSON WWHM64.dat
 94 POCEMERSON WWHM65.dat
 95 POCEMERSON WWHM66.dat
 96 POCEMERSON WWHM67.dat
 97 POCEMERSON WWHM68.dat
 98 POCEMERSON WWHM69.dat
 80 POCEMERSON WWHM51.dat
 81 POCEMERSON WWHM52.dat

END FILES

OPN SEQUENCE

INGRP		INDELT 00:15
PERLND	16	
IMPLND	1	
PERLND	12	
COPY	501	
COPY	502	
COPY	503	
COPY	504	
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COPY	533	
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DISPLY 1
DISPLY 2
DISPLY 3
DISPLY 4
DISPLY 5
DISPLY 6
DISPLY 7
DISPLY 8
DISPLY 9
DISPLY 10
DISPLY 11
DISPLY 33
DISPLY 12
DISPLY 13
DISPLY 14
DISPLY 15
DISPLY 16
DISPLY 17
DISPLY 18
DISPLY 19
DISPLY 20
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DISPLY 46
DISPLY 47
DISPLY 48
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DISPLY 54
DISPLY 55

DISPLY 56
DISPLY 57
DISPLY 58
DISPLY 59
DISPLY 60
DISPLY 61
DISPLY 62
DISPLY 63
DISPLY 64
DISPLY 65
DISPLY 66
DISPLY 67
DISPLY 68
DISPLY 69
DISPLY 51
DISPLY 52

END INGRP

END OPN SEQUENCE

DISPLY

DISPLY-INF01

#	#<-----Title----->	***TRAN	PIVL	DIG1	FIL1	PYR	DIG2	FIL2	YRND
1	OS-62	MAX				1	2	30	9
2	OS-35	MAX				1	2	31	9
3	OS-60	MAX				1	2	32	9
4	OS-33	MAX				1	2	33	9
5	OS-165	MAX				1	2	34	9
6	OS-153	MAX				1	2	35	9
7	Basin 7	MAX				1	2	36	9
8	OS-90	MAX				1	2	37	9
9	OS-82	MAX				1	2	38	9
10	OS-58	MAX				1	2	39	9
11	OS-31	MAX				1	2	40	9
33	OS-22	MAX				1	2	62	9
12	CBSD-32	MAX				1	2	41	9
13	SD-31	MAX				1	2	42	9
14	SD-30	MAX				1	2	43	9
15	SD-21	MAX				1	2	44	9
16	SD-20	MAX				1	2	45	9
17	SD-14	MAX				1	2	46	9
18	SD-6A	MAX				1	2	47	9
19	SD-5A	MAX				1	2	48	9
20	SD-4A	MAX				1	2	49	9
21	SD-3A	MAX				1	2	50	9
22	SD-2A	MAX				1	2	51	9
23	SD-1A	MAX				1	2	52	9
24	OS-29	MAX				1	2	53	9
27	SD-48	MAX				1	2	56	9
28	SD-34	MAX				1	2	57	9
29	SD-33	MAX				1	2	58	9
30	SD-32A	MAX				1	2	59	9
31	SD-31A	MAX				1	2	60	9
32	SD-30A	MAX				1	2	61	9
34	OS-21	MAX				1	2	63	9
35	OS-20	MAX				1	2	64	9
36	OS-19	MAX				1	2	65	9
37	OS-18	MAX				1	2	66	9
38	OS-17	MAX				1	2	67	9
39	OS-16	MAX				1	2	68	9
40	OS-15	MAX				1	2	69	9
41	OS-14	MAX				1	2	70	9
42	OS-13	MAX				1	2	71	9
43	OS-12	MAX				1	2	72	9
44	OS-11A	MAX				1	2	73	9
45	OS-9	MAX				1	2	74	9
46	OS-8	MAX				1	2	75	9
47	OS-7	MAX				1	2	76	9
48	OS-5	MAX				1	2	77	9
49	OS-2	MAX				1	2	78	9
50	SD-1	MAX				1	2	79	9
53	SD-8	MAX				1	2	82	9

54	SD-51	MAX	1	2	83	9
55	SD-50	MAX	1	2	84	9
56	SD-200	MAX	1	2	85	9
57	SD-8A	MAX	1	2	86	9
58	SD-80	MAX	1	2	87	9
59	SD-82	MAX	1	2	88	9
60	SD-18	MAX	1	2	89	9
61	SD-12	MAX	1	2	90	9
62	SD-11	MAX	1	2	91	9
63	SD-10	MAX	1	2	92	9
64	SD-7	MAX	1	2	93	9
65	SD-6	MAX	1	2	94	9
66	SD-5	MAX	1	2	95	9
67	SD-4	MAX	1	2	96	9
68	SD-3	MAX	1	2	97	9
69	SD-2	MAX	1	2	98	9
51	SD-17	MAX	1	2	80	9
52	SD-13	MAX	1	2	81	9

END DISPLY-INFO1

END DISPLY

COPY

TIMESERIES

#	-	#	NPT	NMN	***
1			1	1	
501			1	1	
502			1	1	
503			1	1	
504			1	1	
505			1	1	
506			1	1	
507			1	1	
508			1	1	
509			1	1	
510			1	1	
511			1	1	
533			1	1	
512			1	1	
513			1	1	
514			1	1	
515			1	1	
516			1	1	
517			1	1	
518			1	1	
519			1	1	
520			1	1	
521			1	1	
522			1	1	
523			1	1	
524			1	1	
527			1	1	
528			1	1	
529			1	1	
530			1	1	
531			1	1	
532			1	1	
534			1	1	
535			1	1	
536			1	1	
537			1	1	
538			1	1	
539			1	1	
540			1	1	
541			1	1	
542			1	1	
543			1	1	
544			1	1	
545			1	1	
546			1	1	
547			1	1	
548			1	1	

```

549      1      1
550      1      1
553      1      1
554      1      1
555      1      1
556      1      1
557      1      1
558      1      1
559      1      1
560      1      1
561      1      1
562      1      1
563      1      1
564      1      1
565      1      1
566      1      1
567      1      1
568      1      1
569      1      1
551      1      1
552      1      1

```

```

END TIMESERIES
END COPY

```

```

GENER
  OPCODE
    #      # OPCODE ***
  END OPCODE
  PARM
    #      #          K ***
  END PARM
END GENER

```

```

PERLND
GEN-INFO
  <PLS ><-----Name----->NBLKS      Unit-systems      Printer ***
  # - #                               User  t-series Engl Metr ***
                                     in  out          ***
  16   C, Lawn, Flat                   1   1      1   1      27   0
  12   C, Forest, Steep                 1   1      1   1      27   0
END GEN-INFO
*** Section PWATER***

```

```

ACTIVITY
  <PLS > ***** Active Sections *****
  # - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC ***
  16   0   0   1   0   0   0   0   0   0   0   0   0   0
  12   0   0   1   0   0   0   0   0   0   0   0   0   0
END ACTIVITY

```

```

PRINT-INFO
  <PLS > ***** Print-flags ***** PIVL  PYR
  # - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC *****
  16   0   0   4   0   0   0   0   0   0   0   0   0   0   1   9
  12   0   0   4   0   0   0   0   0   0   0   0   0   0   1   9
END PRINT-INFO

```

```

PWAT-PARM1
  <PLS > PWATER variable monthly parameter value flags ***
  # - # CSNO RTOP UZFG  VCS  VUZ  VNN VIFW VIRC  VLE INFC  HWT ***
  16   0   0   0   0   0   0   0   0   0   0   0
  12   0   0   0   0   0   0   0   0   0   0   0
END PWAT-PARM1

```

```

PWAT-PARM2
  <PLS > PWATER input info: Part 2          ***
  # - # ***FOREST      LZSN      INFILT      LSUR      SLSUR      KVARY      AGWRC
  16   0                4.5        0.03        400        0.05        0.5        0.996
  12   0                4.5        0.08        400        0.15        0.5        0.996
END PWAT-PARM2

```

```

PWAT-PARM3

```

```

      <PLS >          PWATER input info: Part 3          ***
      # - # ***PETMAX    PETMIN    INFEXP    INFILD    DEEPFR    BASETP    AGWETP
      16          0          0          2          2          0          0          0
      12          0          0          2          2          0          0          0
END PWAT-PARM3
PWAT-PARM4
      <PLS >          PWATER input info: Part 4          ***
      # - #          CEPSC    UZSN    NSUR    INTFW    IRC    LZETP ***
      16          0.1    0.25    0.25    6          0.5    0.25
      12          0.2    0.3    0.35    6          0.3    0.7
END PWAT-PARM4

PWAT-STATE1
      <PLS > *** Initial conditions at start of simulation
      ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
      # - # *** CEPS    SURS    UZS    IFWS    LZS    AGWS    GWVS
      16          0          0          0          0    2.5    1    0
      12          0          0          0          0    2.5    1    0
END PWAT-STATE1

END PERLND

IMPLND
GEN-INFO
      <PLS ><-----Name----->    Unit-systems    Printer ***
      # - #          User t-series Engl Metr ***
      #          in out ***
      1          ROADS/FLAT          1    1    1    27    0
END GEN-INFO
*** Section IWATER***

ACTIVITY
      <PLS > ***** Active Sections *****
      # - # ATMP SNOW IWAT SLD IWG IQAL ***
      1          0    0    1    0    0    0
END ACTIVITY

PRINT-INFO
      <ILS > ***** Print-flags ***** PIVL PYR
      # - # ATMP SNOW IWAT SLD IWG IQAL *****
      1          0    0    4    0    0    0    1    9
END PRINT-INFO

IWAT-PARM1
      <PLS > IWATER variable monthly parameter value flags ***
      # - # CSNO RTOP VRS VNN RTLI ***
      1          0    0    0    0    0
END IWAT-PARM1

IWAT-PARM2
      <PLS >          IWATER input info: Part 2          ***
      # - # *** LSUR    SLSUR    NSUR    RETSC
      1          400    0.01    0.1    0.1
END IWAT-PARM2

IWAT-PARM3
      <PLS >          IWATER input info: Part 3          ***
      # - # ***PETMAX    PETMIN
      1          0          0
END IWAT-PARM3

IWAT-STATE1
      <PLS > *** Initial conditions at start of simulation
      # - # *** RETS    SURS
      1          0          0
END IWAT-STATE1

END IMPLND

SCHEMATIC

```

<-Source-> <Name> #	<--Area--> <-factor-->	<-Target-> <Name> #	MBLK Tbl#	*** ***
OS-62***				
PERLND 16	3.04	COPY 501	12	
PERLND 16	3.04	COPY 501	13	
IMPLND 1	2.81	COPY 501	15	
OS-35***				
PERLND 16	0.99	COPY 502	12	
PERLND 16	0.99	COPY 502	13	
IMPLND 1	0.91	COPY 502	15	
OS-60***				
PERLND 16	4.49	COPY 503	12	
PERLND 16	4.49	COPY 503	13	
IMPLND 1	4.15	COPY 503	15	
OS-33***				
PERLND 16	0.36	COPY 504	12	
PERLND 16	0.36	COPY 504	13	
IMPLND 1	0.33	COPY 504	15	
OS-165***				
PERLND 16	4.43	COPY 505	12	
PERLND 16	4.43	COPY 505	13	
IMPLND 1	4.09	COPY 505	15	
OS-153***				
PERLND 16	3.11	COPY 506	12	
PERLND 16	3.11	COPY 506	13	
IMPLND 1	2.87	COPY 506	15	
Basin 7***				
PERLND 16	2.15	COPY 507	12	
PERLND 16	2.15	COPY 507	13	
IMPLND 1	1.99	COPY 507	15	
OS-90***				
PERLND 16	1.84	COPY 508	12	
PERLND 16	1.84	COPY 508	13	
IMPLND 1	1.7	COPY 508	15	
OS-82***				
PERLND 16	4.03	COPY 509	12	
PERLND 16	4.03	COPY 509	13	
IMPLND 1	3.27	COPY 509	15	
OS-58***				
PERLND 16	1.4	COPY 510	12	
PERLND 16	1.4	COPY 510	13	
IMPLND 1	1.29	COPY 510	15	
OS-31***				
PERLND 16	0.67	COPY 511	12	
PERLND 16	0.67	COPY 511	13	
IMPLND 1	0.62	COPY 511	15	
OS-22***				
PERLND 16	4.52	COPY 533	12	
PERLND 16	4.52	COPY 533	13	
IMPLND 1	4.17	COPY 533	15	
CBSD-32***				
PERLND 16	5.06	COPY 512	12	
PERLND 16	5.06	COPY 512	13	
IMPLND 1	4.68	COPY 512	15	
SD-31***				
PERLND 16	10.11	COPY 513	12	
PERLND 16	10.11	COPY 513	13	
IMPLND 1	9.34	COPY 513	15	
SD-30***				
PERLND 16	0.04	COPY 514	12	
PERLND 16	0.04	COPY 514	13	
IMPLND 1	0.03	COPY 514	15	
SD-21***				
PERLND 16	2.1	COPY 515	12	
PERLND 16	2.1	COPY 515	13	
IMPLND 1	1.94	COPY 515	15	
SD-20***				
PERLND 16	3.24	COPY 516	12	
PERLND 16	3.24	COPY 516	13	
IMPLND 1	2.99	COPY 516	15	

SD-14***					
PERLND	16	2.83	COPY	517	12
PERLND	16	2.83	COPY	517	13
IMPLND	1	2.61	COPY	517	15
SD-6A***					
PERLND	16	0.64	COPY	518	12
PERLND	16	0.64	COPY	518	13
IMPLND	1	0.59	COPY	518	15
SD-5A***					
PERLND	16	1.68	COPY	519	12
PERLND	16	1.68	COPY	519	13
IMPLND	1	1.55	COPY	519	15
SD-4A***					
PERLND	16	5.54	COPY	520	12
PERLND	16	5.54	COPY	520	13
IMPLND	1	5.11	COPY	520	15
SD-3A***					
PERLND	16	6.18	COPY	521	12
PERLND	16	6.18	COPY	521	13
IMPLND	1	5.7	COPY	521	15
SD-2A***					
PERLND	16	0.63	COPY	522	12
PERLND	16	0.63	COPY	522	13
IMPLND	1	0.59	COPY	522	15
SD-1A***					
PERLND	16	0.27	COPY	523	12
PERLND	16	0.27	COPY	523	13
IMPLND	1	0.25	COPY	523	15
OS-29***					
PERLND	16	1.25	COPY	524	12
PERLND	16	1.25	COPY	524	13
IMPLND	1	1.15	COPY	524	15
SD-48***					
PERLND	16	0.3	COPY	527	12
PERLND	16	0.3	COPY	527	13
IMPLND	1	2.18	COPY	527	15
SD-34***					
PERLND	16	0.59	COPY	528	12
PERLND	16	0.59	COPY	528	13
IMPLND	1	4.34	COPY	528	15
SD-33***					
PERLND	16	0.11	COPY	529	12
PERLND	16	0.11	COPY	529	13
IMPLND	1	0.78	COPY	529	15
SD-32A***					
PERLND	16	0.1	COPY	530	12
PERLND	16	0.1	COPY	530	13
IMPLND	1	0.71	COPY	530	15
SD-31A***					
PERLND	16	0.2	COPY	531	12
PERLND	16	0.2	COPY	531	13
IMPLND	1	0.14	COPY	531	15
SD-30A***					
PERLND	16	0.03	COPY	532	12
PERLND	16	0.03	COPY	532	13
IMPLND	1	0.2	COPY	532	15
OS-21***					
PERLND	16	5.27	COPY	534	12
PERLND	16	5.27	COPY	534	13
IMPLND	1	4.87	COPY	534	15
OS-20***					
PERLND	16	2.11	COPY	535	12
PERLND	16	2.11	COPY	535	13
IMPLND	1	1.95	COPY	535	15
OS-19***					
PERLND	16	0.62	COPY	536	12
PERLND	16	0.62	COPY	536	13
IMPLND	1	0.57	COPY	536	15
OS-18***					
PERLND	16	1.47	COPY	537	12

PERLND	16	1.47	COPY	537	13
IMPLND	1	1.36	COPY	537	15
OS-17***					
PERLND	16	1.67	COPY	538	12
PERLND	16	1.67	COPY	538	13
IMPLND	1	1.54	COPY	538	15
OS-16***					
PERLND	16	0.58	COPY	539	12
PERLND	16	0.58	COPY	539	13
IMPLND	1	0.54	COPY	539	15
OS-15***					
PERLND	16	1.49	COPY	540	12
PERLND	16	1.49	COPY	540	13
IMPLND	1	1.37	COPY	540	15
OS-14***					
PERLND	16	2.2	COPY	541	12
PERLND	16	2.2	COPY	541	13
IMPLND	1	2.03	COPY	541	15
OS-13***					
PERLND	16	2.27	COPY	542	12
PERLND	16	2.27	COPY	542	13
IMPLND	1	2.09	COPY	542	15
OS-12***					
PERLND	16	0.78	COPY	543	12
PERLND	16	0.78	COPY	543	13
IMPLND	1	0.72	COPY	543	15
OS-11A***					
PERLND	16	0.8	COPY	544	12
PERLND	16	0.8	COPY	544	13
IMPLND	1	0.73	COPY	544	15
OS-9***					
PERLND	16	1.6	COPY	545	12
PERLND	16	1.6	COPY	545	13
IMPLND	1	1.47	COPY	545	15
OS-8***					
PERLND	16	2.13	COPY	546	12
PERLND	16	2.13	COPY	546	13
IMPLND	1	1.96	COPY	546	15
OS-7***					
PERLND	16	0.63	COPY	547	12
PERLND	16	0.63	COPY	547	13
IMPLND	1	0.58	COPY	547	15
OS-5***					
PERLND	16	0.01	COPY	548	12
PERLND	16	0.01	COPY	548	13
IMPLND	1	0.07	COPY	548	15
OS-2***					
PERLND	16	0.02	COPY	549	12
PERLND	16	0.02	COPY	549	13
IMPLND	1	0.16	COPY	549	15
SD-1***					
PERLND	16	0.2	COPY	550	12
PERLND	16	0.2	COPY	550	13
IMPLND	1	1.45	COPY	550	15
SD-8***					
PERLND	16	1.79	COPY	553	12
PERLND	16	1.79	COPY	553	13
IMPLND	1	1.65	COPY	553	15
SD-51***					
PERLND	16	0.64	COPY	554	12
PERLND	16	0.64	COPY	554	13
IMPLND	1	0.59	COPY	554	15
SD-50***					
PERLND	16	0.79	COPY	555	12
PERLND	16	0.79	COPY	555	13
IMPLND	1	0.73	COPY	555	15
SD-200***					
PERLND	12	10.45	COPY	556	12
PERLND	12	10.45	COPY	556	13
PERLND	16	0.11	COPY	556	12

PERLND	16	0.11	COPY	556	13
SD-8A***					
PERLND	12	4.2	COPY	557	12
PERLND	12	4.2	COPY	557	13
PERLND	16	0.04	COPY	557	12
PERLND	16	0.04	COPY	557	13
SD-80***					
PERLND	16	0.54	COPY	558	12
PERLND	16	0.54	COPY	558	13
IMPLND	1	0.5	COPY	558	15
SD-82***					
PERLND	16	5.04	COPY	559	12
PERLND	16	5.04	COPY	559	13
IMPLND	1	4.65	COPY	559	15
SD-18***					
PERLND	16	0.72	COPY	560	12
PERLND	16	0.72	COPY	560	13
IMPLND	1	0.66	COPY	560	15
SD-12***					
PERLND	16	2.25	COPY	561	12
PERLND	16	2.25	COPY	561	13
IMPLND	1	2.08	COPY	561	15
SD-11***					
PERLND	16	0.56	COPY	562	12
PERLND	16	0.56	COPY	562	13
IMPLND	1	0.52	COPY	562	15
SD-10***					
PERLND	16	2.07	COPY	563	12
PERLND	16	2.07	COPY	563	13
IMPLND	1	1.91	COPY	563	15
SD-7***					
PERLND	16	0.56	COPY	564	12
PERLND	16	0.56	COPY	564	13
IMPLND	1	0.52	COPY	564	15
SD-6***					
PERLND	16	0.39	COPY	565	12
PERLND	16	0.39	COPY	565	13
IMPLND	1	0.36	COPY	565	15
SD-5***					
PERLND	16	0.26	COPY	566	12
PERLND	16	0.26	COPY	566	13
IMPLND	1	1.89	COPY	566	15
SD-4***					
PERLND	16	0.46	COPY	567	12
PERLND	16	0.46	COPY	567	13
IMPLND	1	0.43	COPY	567	15
SD-3***					
PERLND	16	0.13	COPY	568	12
PERLND	16	0.13	COPY	568	13
IMPLND	1	0.95	COPY	568	15
SD-2***					
PERLND	16	0.28	COPY	569	12
PERLND	16	0.28	COPY	569	13
IMPLND	1	2.05	COPY	569	15
SD-17***					
PERLND	16	0.53	COPY	551	12
PERLND	16	0.53	COPY	551	13
IMPLND	1	0.48	COPY	551	15
SD-13***					
PERLND	16	0.63	COPY	552	12
PERLND	16	0.63	COPY	552	13
IMPLND	1	0.58	COPY	552	15

*****Routing*****
 END SCHEMATIC

NETWORK

<-Volume->	<-Grp>	<-Member->	<--Mult-->	Tran	<-Target vols>	<-Grp>	<-Member->	***				
<Name>	#	<Name>	#	<-factor-->	strg	<Name>	#	***				
COPY	501	OUTPUT	MEAN	1	1	48.4	DISPLY	1	INPUT	TIMSER	1	

COPY	502	OUTPUT	MEAN	1	1	48.4	DISPLY	2	INPUT	TIMSER	1
COPY	503	OUTPUT	MEAN	1	1	48.4	DISPLY	3	INPUT	TIMSER	1
COPY	504	OUTPUT	MEAN	1	1	48.4	DISPLY	4	INPUT	TIMSER	1
COPY	505	OUTPUT	MEAN	1	1	48.4	DISPLY	5	INPUT	TIMSER	1
COPY	506	OUTPUT	MEAN	1	1	48.4	DISPLY	6	INPUT	TIMSER	1
COPY	507	OUTPUT	MEAN	1	1	48.4	DISPLY	7	INPUT	TIMSER	1
COPY	508	OUTPUT	MEAN	1	1	48.4	DISPLY	8	INPUT	TIMSER	1
COPY	509	OUTPUT	MEAN	1	1	48.4	DISPLY	9	INPUT	TIMSER	1
COPY	510	OUTPUT	MEAN	1	1	48.4	DISPLY	10	INPUT	TIMSER	1
COPY	511	OUTPUT	MEAN	1	1	48.4	DISPLY	11	INPUT	TIMSER	1
COPY	533	OUTPUT	MEAN	1	1	48.4	DISPLY	33	INPUT	TIMSER	1
COPY	512	OUTPUT	MEAN	1	1	48.4	DISPLY	12	INPUT	TIMSER	1
COPY	513	OUTPUT	MEAN	1	1	48.4	DISPLY	13	INPUT	TIMSER	1
COPY	514	OUTPUT	MEAN	1	1	48.4	DISPLY	14	INPUT	TIMSER	1
COPY	515	OUTPUT	MEAN	1	1	48.4	DISPLY	15	INPUT	TIMSER	1
COPY	516	OUTPUT	MEAN	1	1	48.4	DISPLY	16	INPUT	TIMSER	1
COPY	517	OUTPUT	MEAN	1	1	48.4	DISPLY	17	INPUT	TIMSER	1
COPY	518	OUTPUT	MEAN	1	1	48.4	DISPLY	18	INPUT	TIMSER	1
COPY	519	OUTPUT	MEAN	1	1	48.4	DISPLY	19	INPUT	TIMSER	1
COPY	520	OUTPUT	MEAN	1	1	48.4	DISPLY	20	INPUT	TIMSER	1
COPY	521	OUTPUT	MEAN	1	1	48.4	DISPLY	21	INPUT	TIMSER	1
COPY	522	OUTPUT	MEAN	1	1	48.4	DISPLY	22	INPUT	TIMSER	1
COPY	523	OUTPUT	MEAN	1	1	48.4	DISPLY	23	INPUT	TIMSER	1
COPY	524	OUTPUT	MEAN	1	1	48.4	DISPLY	24	INPUT	TIMSER	1
COPY	527	OUTPUT	MEAN	1	1	48.4	DISPLY	27	INPUT	TIMSER	1
COPY	528	OUTPUT	MEAN	1	1	48.4	DISPLY	28	INPUT	TIMSER	1
COPY	529	OUTPUT	MEAN	1	1	48.4	DISPLY	29	INPUT	TIMSER	1
COPY	530	OUTPUT	MEAN	1	1	48.4	DISPLY	30	INPUT	TIMSER	1
COPY	531	OUTPUT	MEAN	1	1	48.4	DISPLY	31	INPUT	TIMSER	1
COPY	532	OUTPUT	MEAN	1	1	48.4	DISPLY	32	INPUT	TIMSER	1
COPY	534	OUTPUT	MEAN	1	1	48.4	DISPLY	34	INPUT	TIMSER	1
COPY	535	OUTPUT	MEAN	1	1	48.4	DISPLY	35	INPUT	TIMSER	1
COPY	536	OUTPUT	MEAN	1	1	48.4	DISPLY	36	INPUT	TIMSER	1
COPY	537	OUTPUT	MEAN	1	1	48.4	DISPLY	37	INPUT	TIMSER	1
COPY	538	OUTPUT	MEAN	1	1	48.4	DISPLY	38	INPUT	TIMSER	1
COPY	539	OUTPUT	MEAN	1	1	48.4	DISPLY	39	INPUT	TIMSER	1
COPY	540	OUTPUT	MEAN	1	1	48.4	DISPLY	40	INPUT	TIMSER	1
COPY	541	OUTPUT	MEAN	1	1	48.4	DISPLY	41	INPUT	TIMSER	1
COPY	542	OUTPUT	MEAN	1	1	48.4	DISPLY	42	INPUT	TIMSER	1
COPY	543	OUTPUT	MEAN	1	1	48.4	DISPLY	43	INPUT	TIMSER	1
COPY	544	OUTPUT	MEAN	1	1	48.4	DISPLY	44	INPUT	TIMSER	1
COPY	545	OUTPUT	MEAN	1	1	48.4	DISPLY	45	INPUT	TIMSER	1
COPY	546	OUTPUT	MEAN	1	1	48.4	DISPLY	46	INPUT	TIMSER	1
COPY	547	OUTPUT	MEAN	1	1	48.4	DISPLY	47	INPUT	TIMSER	1
COPY	548	OUTPUT	MEAN	1	1	48.4	DISPLY	48	INPUT	TIMSER	1
COPY	549	OUTPUT	MEAN	1	1	48.4	DISPLY	49	INPUT	TIMSER	1
COPY	550	OUTPUT	MEAN	1	1	48.4	DISPLY	50	INPUT	TIMSER	1
COPY	553	OUTPUT	MEAN	1	1	48.4	DISPLY	53	INPUT	TIMSER	1
COPY	554	OUTPUT	MEAN	1	1	48.4	DISPLY	54	INPUT	TIMSER	1
COPY	555	OUTPUT	MEAN	1	1	48.4	DISPLY	55	INPUT	TIMSER	1
COPY	556	OUTPUT	MEAN	1	1	48.4	DISPLY	56	INPUT	TIMSER	1
COPY	557	OUTPUT	MEAN	1	1	48.4	DISPLY	57	INPUT	TIMSER	1
COPY	558	OUTPUT	MEAN	1	1	48.4	DISPLY	58	INPUT	TIMSER	1
COPY	559	OUTPUT	MEAN	1	1	48.4	DISPLY	59	INPUT	TIMSER	1
COPY	560	OUTPUT	MEAN	1	1	48.4	DISPLY	60	INPUT	TIMSER	1
COPY	561	OUTPUT	MEAN	1	1	48.4	DISPLY	61	INPUT	TIMSER	1
COPY	562	OUTPUT	MEAN	1	1	48.4	DISPLY	62	INPUT	TIMSER	1
COPY	563	OUTPUT	MEAN	1	1	48.4	DISPLY	63	INPUT	TIMSER	1
COPY	564	OUTPUT	MEAN	1	1	48.4	DISPLY	64	INPUT	TIMSER	1
COPY	565	OUTPUT	MEAN	1	1	48.4	DISPLY	65	INPUT	TIMSER	1
COPY	566	OUTPUT	MEAN	1	1	48.4	DISPLY	66	INPUT	TIMSER	1
COPY	567	OUTPUT	MEAN	1	1	48.4	DISPLY	67	INPUT	TIMSER	1
COPY	568	OUTPUT	MEAN	1	1	48.4	DISPLY	68	INPUT	TIMSER	1
COPY	569	OUTPUT	MEAN	1	1	48.4	DISPLY	69	INPUT	TIMSER	1
COPY	551	OUTPUT	MEAN	1	1	48.4	DISPLY	51	INPUT	TIMSER	1
COPY	552	OUTPUT	MEAN	1	1	48.4	DISPLY	52	INPUT	TIMSER	1

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***

```

<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
END NETWORK

```

RCHRES

```

GEN-INFO
RCHRES      Name      Nexits    Unit Systems  Printer
# - #<-----><----> User T-series Engl Metr LKFG
                                   in  out
***

```

```

END GEN-INFO
*** Section RCHRES***

```

ACTIVITY

```

<PLS > ***** Active Sections *****
# - # HYFG ADFG CNFG HTFG SDFG GQFG OXFG NUFN PKFG PHFG ***
END ACTIVITY

```

PRINT-INFO

```

<PLS > ***** Print-flags ***** PIVL  PYR
# - # HYDR ADCA CONS HEAT SED  GQL  OXRX NUTR PLNK PHCB PIVL  PYR *****
END PRINT-INFO

```

HYDR-PARM1

```

RCHRES  Flags for each HYDR Section
# - # VC A1 A2 A3  ODFVFG for each *** ODGTFG for each  FUNCT for each
      FG FG FG FG  possible exit *** possible exit   possible exit
      * * * * * * * * * * * * * * * * * * * * * *
***

```

END HYDR-PARM1

HYDR-PARM2

```

# - # FTABNO      LEN      DELTH      STCOR      KS      DB50      ***
<-----><-----><-----><-----><-----><----->
***

```

END HYDR-PARM2

HYDR-INIT

```

RCHRES  Initial conditions for each HYDR section
# - # *** VOL      Initial value of COLIND  Initial value of OUTDGT
      *** ac-ft   for each possible exit    for each possible exit
<-----><----->   <----><----><----><----><----> *** <----><----><----><----><---->

```

END HYDR-INIT

END RCHRES

SPEC-ACTIONS

END SPEC-ACTIONS

FTABLES

END FTABLES

EXT SOURCES

```

<-Volume-> <Member> SsysSgap<--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # tem strg<-factor->strg <Name> # # <Name> # # ***
WDM      2 PREC      ENGL      1.1      PERLND  1 999 EXTNL  PREC
WDM      2 PREC      ENGL      1.1      IMPLND  1 999 EXTNL  PREC
WDM      1 EVAP      ENGL      0.76     PERLND  1 999 EXTNL  PETINP
WDM      1 EVAP      ENGL      0.76     IMPLND  1 999 EXTNL  PETINP

```

END EXT SOURCES

EXT TARGETS

```

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Volume-> <Member> Tsys Tgap Amd ***
<Name> # <Name> # #<-factor->strg <Name> # <Name> tem strg strg ***
COPY     1 OUTPUT  MEAN   1 1      48.4    WDM     701 FLOW  ENGL   REPL
COPY     501 OUTPUT  MEAN   1 1      48.4    WDM     801 FLOW  ENGL   REPL
COPY     2 OUTPUT  MEAN   1 1      48.4    WDM     702 FLOW  ENGL   REPL
COPY     502 OUTPUT  MEAN   1 1      48.4    WDM     802 FLOW  ENGL   REPL
COPY     3 OUTPUT  MEAN   1 1      48.4    WDM     703 FLOW  ENGL   REPL
COPY     503 OUTPUT  MEAN   1 1      48.4    WDM     803 FLOW  ENGL   REPL
COPY     4 OUTPUT  MEAN   1 1      48.4    WDM     704 FLOW  ENGL   REPL
COPY     504 OUTPUT  MEAN   1 1      48.4    WDM     804 FLOW  ENGL   REPL
COPY     5 OUTPUT  MEAN   1 1      48.4    WDM     705 FLOW  ENGL   REPL
COPY     505 OUTPUT  MEAN   1 1      48.4    WDM     805 FLOW  ENGL   REPL
COPY     6 OUTPUT  MEAN   1 1      48.4    WDM     706 FLOW  ENGL   REPL
COPY     506 OUTPUT  MEAN   1 1      48.4    WDM     806 FLOW  ENGL   REPL

```

COPY	7	OUTPUT	MEAN	1	1	48.4	WDM	707	FLOW	ENGL	REPL
COPY	507	OUTPUT	MEAN	1	1	48.4	WDM	807	FLOW	ENGL	REPL
COPY	8	OUTPUT	MEAN	1	1	48.4	WDM	708	FLOW	ENGL	REPL
COPY	508	OUTPUT	MEAN	1	1	48.4	WDM	808	FLOW	ENGL	REPL
COPY	9	OUTPUT	MEAN	1	1	48.4	WDM	709	FLOW	ENGL	REPL
COPY	509	OUTPUT	MEAN	1	1	48.4	WDM	809	FLOW	ENGL	REPL
COPY	10	OUTPUT	MEAN	1	1	48.4	WDM	710	FLOW	ENGL	REPL
COPY	510	OUTPUT	MEAN	1	1	48.4	WDM	810	FLOW	ENGL	REPL
COPY	11	OUTPUT	MEAN	1	1	48.4	WDM	711	FLOW	ENGL	REPL
COPY	511	OUTPUT	MEAN	1	1	48.4	WDM	811	FLOW	ENGL	REPL
COPY	33	OUTPUT	MEAN	1	1	48.4	WDM	733	FLOW	ENGL	REPL
COPY	533	OUTPUT	MEAN	1	1	48.4	WDM	833	FLOW	ENGL	REPL
COPY	12	OUTPUT	MEAN	1	1	48.4	WDM	712	FLOW	ENGL	REPL
COPY	512	OUTPUT	MEAN	1	1	48.4	WDM	812	FLOW	ENGL	REPL
COPY	13	OUTPUT	MEAN	1	1	48.4	WDM	713	FLOW	ENGL	REPL
COPY	513	OUTPUT	MEAN	1	1	48.4	WDM	813	FLOW	ENGL	REPL
COPY	14	OUTPUT	MEAN	1	1	48.4	WDM	714	FLOW	ENGL	REPL
COPY	514	OUTPUT	MEAN	1	1	48.4	WDM	814	FLOW	ENGL	REPL
COPY	15	OUTPUT	MEAN	1	1	48.4	WDM	715	FLOW	ENGL	REPL
COPY	515	OUTPUT	MEAN	1	1	48.4	WDM	815	FLOW	ENGL	REPL
COPY	16	OUTPUT	MEAN	1	1	48.4	WDM	716	FLOW	ENGL	REPL
COPY	516	OUTPUT	MEAN	1	1	48.4	WDM	816	FLOW	ENGL	REPL
COPY	17	OUTPUT	MEAN	1	1	48.4	WDM	717	FLOW	ENGL	REPL
COPY	517	OUTPUT	MEAN	1	1	48.4	WDM	817	FLOW	ENGL	REPL
COPY	18	OUTPUT	MEAN	1	1	48.4	WDM	718	FLOW	ENGL	REPL
COPY	518	OUTPUT	MEAN	1	1	48.4	WDM	818	FLOW	ENGL	REPL
COPY	19	OUTPUT	MEAN	1	1	48.4	WDM	719	FLOW	ENGL	REPL
COPY	519	OUTPUT	MEAN	1	1	48.4	WDM	819	FLOW	ENGL	REPL
COPY	20	OUTPUT	MEAN	1	1	48.4	WDM	720	FLOW	ENGL	REPL
COPY	520	OUTPUT	MEAN	1	1	48.4	WDM	820	FLOW	ENGL	REPL
COPY	21	OUTPUT	MEAN	1	1	48.4	WDM	721	FLOW	ENGL	REPL
COPY	521	OUTPUT	MEAN	1	1	48.4	WDM	821	FLOW	ENGL	REPL
COPY	22	OUTPUT	MEAN	1	1	48.4	WDM	722	FLOW	ENGL	REPL
COPY	522	OUTPUT	MEAN	1	1	48.4	WDM	822	FLOW	ENGL	REPL
COPY	23	OUTPUT	MEAN	1	1	48.4	WDM	723	FLOW	ENGL	REPL
COPY	523	OUTPUT	MEAN	1	1	48.4	WDM	823	FLOW	ENGL	REPL
COPY	24	OUTPUT	MEAN	1	1	48.4	WDM	724	FLOW	ENGL	REPL
COPY	524	OUTPUT	MEAN	1	1	48.4	WDM	824	FLOW	ENGL	REPL
COPY	27	OUTPUT	MEAN	1	1	48.4	WDM	727	FLOW	ENGL	REPL
COPY	527	OUTPUT	MEAN	1	1	48.4	WDM	827	FLOW	ENGL	REPL
COPY	28	OUTPUT	MEAN	1	1	48.4	WDM	728	FLOW	ENGL	REPL
COPY	528	OUTPUT	MEAN	1	1	48.4	WDM	828	FLOW	ENGL	REPL
COPY	29	OUTPUT	MEAN	1	1	48.4	WDM	729	FLOW	ENGL	REPL
COPY	529	OUTPUT	MEAN	1	1	48.4	WDM	829	FLOW	ENGL	REPL
COPY	30	OUTPUT	MEAN	1	1	48.4	WDM	730	FLOW	ENGL	REPL
COPY	530	OUTPUT	MEAN	1	1	48.4	WDM	830	FLOW	ENGL	REPL
COPY	31	OUTPUT	MEAN	1	1	48.4	WDM	731	FLOW	ENGL	REPL
COPY	531	OUTPUT	MEAN	1	1	48.4	WDM	831	FLOW	ENGL	REPL
COPY	32	OUTPUT	MEAN	1	1	48.4	WDM	732	FLOW	ENGL	REPL
COPY	532	OUTPUT	MEAN	1	1	48.4	WDM	832	FLOW	ENGL	REPL
COPY	34	OUTPUT	MEAN	1	1	48.4	WDM	734	FLOW	ENGL	REPL
COPY	534	OUTPUT	MEAN	1	1	48.4	WDM	834	FLOW	ENGL	REPL
COPY	35	OUTPUT	MEAN	1	1	48.4	WDM	735	FLOW	ENGL	REPL
COPY	535	OUTPUT	MEAN	1	1	48.4	WDM	835	FLOW	ENGL	REPL
COPY	36	OUTPUT	MEAN	1	1	48.4	WDM	736	FLOW	ENGL	REPL
COPY	536	OUTPUT	MEAN	1	1	48.4	WDM	836	FLOW	ENGL	REPL
COPY	37	OUTPUT	MEAN	1	1	48.4	WDM	737	FLOW	ENGL	REPL
COPY	537	OUTPUT	MEAN	1	1	48.4	WDM	837	FLOW	ENGL	REPL
COPY	38	OUTPUT	MEAN	1	1	48.4	WDM	738	FLOW	ENGL	REPL
COPY	538	OUTPUT	MEAN	1	1	48.4	WDM	838	FLOW	ENGL	REPL
COPY	39	OUTPUT	MEAN	1	1	48.4	WDM	739	FLOW	ENGL	REPL
COPY	539	OUTPUT	MEAN	1	1	48.4	WDM	839	FLOW	ENGL	REPL
COPY	40	OUTPUT	MEAN	1	1	48.4	WDM	740	FLOW	ENGL	REPL
COPY	540	OUTPUT	MEAN	1	1	48.4	WDM	840	FLOW	ENGL	REPL
COPY	41	OUTPUT	MEAN	1	1	48.4	WDM	741	FLOW	ENGL	REPL
COPY	541	OUTPUT	MEAN	1	1	48.4	WDM	841	FLOW	ENGL	REPL
COPY	42	OUTPUT	MEAN	1	1	48.4	WDM	742	FLOW	ENGL	REPL
COPY	542	OUTPUT	MEAN	1	1	48.4	WDM	842	FLOW	ENGL	REPL
COPY	43	OUTPUT	MEAN	1	1	48.4	WDM	743	FLOW	ENGL	REPL
COPY	543	OUTPUT	MEAN	1	1	48.4	WDM	843	FLOW	ENGL	REPL

COPY	44	OUTPUT	MEAN	1	1	48.4	WDM	744	FLOW	ENGL	REPL
COPY	544	OUTPUT	MEAN	1	1	48.4	WDM	844	FLOW	ENGL	REPL
COPY	45	OUTPUT	MEAN	1	1	48.4	WDM	745	FLOW	ENGL	REPL
COPY	545	OUTPUT	MEAN	1	1	48.4	WDM	845	FLOW	ENGL	REPL
COPY	46	OUTPUT	MEAN	1	1	48.4	WDM	746	FLOW	ENGL	REPL
COPY	546	OUTPUT	MEAN	1	1	48.4	WDM	846	FLOW	ENGL	REPL
COPY	47	OUTPUT	MEAN	1	1	48.4	WDM	747	FLOW	ENGL	REPL
COPY	547	OUTPUT	MEAN	1	1	48.4	WDM	847	FLOW	ENGL	REPL
COPY	48	OUTPUT	MEAN	1	1	48.4	WDM	748	FLOW	ENGL	REPL
COPY	548	OUTPUT	MEAN	1	1	48.4	WDM	848	FLOW	ENGL	REPL
COPY	49	OUTPUT	MEAN	1	1	48.4	WDM	749	FLOW	ENGL	REPL
COPY	549	OUTPUT	MEAN	1	1	48.4	WDM	849	FLOW	ENGL	REPL
COPY	50	OUTPUT	MEAN	1	1	48.4	WDM	750	FLOW	ENGL	REPL
COPY	550	OUTPUT	MEAN	1	1	48.4	WDM	850	FLOW	ENGL	REPL
COPY	53	OUTPUT	MEAN	1	1	48.4	WDM	753	FLOW	ENGL	REPL
COPY	553	OUTPUT	MEAN	1	1	48.4	WDM	853	FLOW	ENGL	REPL
COPY	54	OUTPUT	MEAN	1	1	48.4	WDM	754	FLOW	ENGL	REPL
COPY	554	OUTPUT	MEAN	1	1	48.4	WDM	854	FLOW	ENGL	REPL
COPY	55	OUTPUT	MEAN	1	1	48.4	WDM	755	FLOW	ENGL	REPL
COPY	555	OUTPUT	MEAN	1	1	48.4	WDM	855	FLOW	ENGL	REPL
COPY	56	OUTPUT	MEAN	1	1	48.4	WDM	756	FLOW	ENGL	REPL
COPY	556	OUTPUT	MEAN	1	1	48.4	WDM	856	FLOW	ENGL	REPL
COPY	57	OUTPUT	MEAN	1	1	48.4	WDM	757	FLOW	ENGL	REPL
COPY	557	OUTPUT	MEAN	1	1	48.4	WDM	857	FLOW	ENGL	REPL
COPY	58	OUTPUT	MEAN	1	1	48.4	WDM	758	FLOW	ENGL	REPL
COPY	558	OUTPUT	MEAN	1	1	48.4	WDM	858	FLOW	ENGL	REPL
COPY	59	OUTPUT	MEAN	1	1	48.4	WDM	759	FLOW	ENGL	REPL
COPY	559	OUTPUT	MEAN	1	1	48.4	WDM	859	FLOW	ENGL	REPL
COPY	60	OUTPUT	MEAN	1	1	48.4	WDM	760	FLOW	ENGL	REPL
COPY	560	OUTPUT	MEAN	1	1	48.4	WDM	860	FLOW	ENGL	REPL
COPY	61	OUTPUT	MEAN	1	1	48.4	WDM	761	FLOW	ENGL	REPL
COPY	561	OUTPUT	MEAN	1	1	48.4	WDM	861	FLOW	ENGL	REPL
COPY	62	OUTPUT	MEAN	1	1	48.4	WDM	762	FLOW	ENGL	REPL
COPY	562	OUTPUT	MEAN	1	1	48.4	WDM	862	FLOW	ENGL	REPL
COPY	63	OUTPUT	MEAN	1	1	48.4	WDM	763	FLOW	ENGL	REPL
COPY	563	OUTPUT	MEAN	1	1	48.4	WDM	863	FLOW	ENGL	REPL
COPY	64	OUTPUT	MEAN	1	1	48.4	WDM	764	FLOW	ENGL	REPL
COPY	564	OUTPUT	MEAN	1	1	48.4	WDM	864	FLOW	ENGL	REPL
COPY	65	OUTPUT	MEAN	1	1	48.4	WDM	765	FLOW	ENGL	REPL
COPY	565	OUTPUT	MEAN	1	1	48.4	WDM	865	FLOW	ENGL	REPL
COPY	66	OUTPUT	MEAN	1	1	48.4	WDM	766	FLOW	ENGL	REPL
COPY	566	OUTPUT	MEAN	1	1	48.4	WDM	866	FLOW	ENGL	REPL
COPY	67	OUTPUT	MEAN	1	1	48.4	WDM	767	FLOW	ENGL	REPL
COPY	567	OUTPUT	MEAN	1	1	48.4	WDM	867	FLOW	ENGL	REPL
COPY	68	OUTPUT	MEAN	1	1	48.4	WDM	768	FLOW	ENGL	REPL
COPY	568	OUTPUT	MEAN	1	1	48.4	WDM	868	FLOW	ENGL	REPL
COPY	69	OUTPUT	MEAN	1	1	48.4	WDM	769	FLOW	ENGL	REPL
COPY	569	OUTPUT	MEAN	1	1	48.4	WDM	869	FLOW	ENGL	REPL
COPY	51	OUTPUT	MEAN	1	1	48.4	WDM	751	FLOW	ENGL	REPL
COPY	551	OUTPUT	MEAN	1	1	48.4	WDM	851	FLOW	ENGL	REPL
COPY	52	OUTPUT	MEAN	1	1	48.4	WDM	752	FLOW	ENGL	REPL
COPY	552	OUTPUT	MEAN	1	1	48.4	WDM	852	FLOW	ENGL	REPL

END EXT TARGETS

MASS-LINK

<Volume>	<-Grp>	<-Member->	<--Mult-->	<Target>	<-Grp>	<-Member->***
<Name>		<Name>	# #<-factor->	<Name>		<Name>

MASS-LINK		12				
PERLND	PWATER	SURO	0.083333	COPY	INPUT	MEAN
END MASS-LINK		12				

MASS-LINK		13				
PERLND	PWATER	IFWO	0.083333	COPY	INPUT	MEAN
END MASS-LINK		13				

MASS-LINK		15				
IMPLND	IWATER	SURO	0.083333	COPY	INPUT	MEAN
END MASS-LINK		15				

END MASS-LINK

END RUN

Predeveloped HSPF Message File

Mitigated HSPF Message File

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10th Street Basin WWHM Modeling Report (1)

WWHM2012 PROJECT REPORT

Project Name: 10th street pump station basin1
Site Name: 10th street basin
Site Address:
City :
Report Date: 8/12/2019
Gage : Montesano
Data Start : 1955/10/01
Data End : 2009/09/30
Precip Scale: 1.10
Version : 2013/09/11

Low Flow Threshold for POC 1 : 50 Percent of the 2 Year

High Flow Threshold for POC 1: 50 year

Low Flow Threshold for POC 2 : 50 Percent of the 2 Year

High Flow Threshold for POC 2: 50 year

Low Flow Threshold for POC 3 : 50 Percent of the 2 Year

High Flow Threshold for POC 3: 50 year

Low Flow Threshold for POC 4 : 50 Percent of the 2 Year

High Flow Threshold for POC 4: 50 year

Low Flow Threshold for POC 5 : 50 Percent of the 2 Year

High Flow Threshold for POC 5: 50 year

Low Flow Threshold for POC 6 : 50 Percent of the 2 Year

High Flow Threshold for POC 6: 50 year

Low Flow Threshold for POC 7 : 50 Percent of the 2 Year

High Flow Threshold for POC 7: 50 year

Low Flow Threshold for POC 8 : 50 Percent of the 2 Year

High Flow Threshold for POC 8: 50 year

Low Flow Threshold for POC 9 : 50 Percent of the 2 Year

High Flow Threshold for POC 9: 50 year

Low Flow Threshold for POC 10 : 50 Percent of the 2 Year

High Flow Threshold for POC 10: 50 year

Low Flow Threshold for POC 11 : 50 Percent of the 2 Year

High Flow Threshold for POC 11: 50 year

PREDEVELOPED LAND USE

Name : SD-22

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.218
Pervious Total	0.218
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.599
Impervious Total	1.599
Basin Total	1.817

Element Flows To:

Surface

Interflow

Groundwater

Name : SD-20

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.046
Pervious Total	0.046
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.02
Impervious Total	1.02
Basin Total	1.066

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-18
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.279
Pervious Total	0.279
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.046
Impervious Total	2.046
Basin Total	2.325

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-10
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.162
Impervious Total	0.162
Basin Total	0.162

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-1
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.456
Impervious Total	0.456
Basin Total	0.456

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-2
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.107
Pervious Total	0.107
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.785
Impervious Total	0.785
Basin Total	0.892

Element Flows To:
Surface Interflow Groundwater

Name : NODE-3
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.658
Impervious Total	0.658
Basin Total	0.658

Element Flows To:
Surface Interflow Groundwater

Name : NODE-4
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.202
Pervious Total	0.202
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.103
Impervious Total	0.103
Basin Total	0.305

Element Flows To:
Surface Interflow Groundwater

Name : NODE-5

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.55
Impervious Total	0.55
Basin Total	0.55

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-13

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.618
Impervious Total	0.618
Basin Total	0.618

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-14

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.234
Impervious Total	0.234
Basin Total	0.234

Element Flows To:		
Surface	Interflow	Groundwater

MITIGATED LAND USE

Name : SD-22

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.218
Pervious Total	0.218
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.599
Impervious Total	1.599
Basin Total	1.817

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-20

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.046

Pervious Total	0.046
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.02
Impervious Total	1.02
Basin Total	1.066

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-18
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.279
Pervious Total	0.279
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.046
Impervious Total	2.046
Basin Total	2.325

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-10
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.162

Impervious Total 0.162
Basin Total 0.162

Element Flows To:
Surface Interflow Groundwater

Name : NODE-1
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.456
Impervious Total	0.456
Basin Total	0.456

Element Flows To:
Surface Interflow Groundwater

Name : NODE-2
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.107
Pervious Total	0.107
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.785
Impervious Total	0.785
Basin Total	0.892

Element Flows To:
Surface Interflow Groundwater

Name : NODE-3

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.658
Impervious Total	0.658
Basin Total	0.658

Element Flows To:
Surface Interflow Groundwater

Name : NODE-4

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.202
Pervious Total	0.202
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.103
Impervious Total	0.103
Basin Total	0.305

Element Flows To:
Surface Interflow Groundwater

Name : NODE-5
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.55
Impervious Total	0.55
Basin Total	0.55

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-13
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.618
Impervious Total	0.618
Basin Total	0.618

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-14
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
--------------------------	--------------

Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.234
Impervious Total	0.234
Basin Total	0.234

Element Flows To:		
Surface	Interflow	Groundwater

ANALYSIS RESULTS

Stream Protection Duration

Predeveloped Landuse Totals for POC #1
 Total Pervious Area:0.218
 Total Impervious Area:1.599

Mitigated Landuse Totals for POC #1
 Total Pervious Area:0.218
 Total Impervious Area:1.599

Flow Frequency Return Periods for Predeveloped. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.260561
5 year	1.494693
10 year	1.621198
25 year	1.757855
50 year	1.846559
100 year	1.926312

Flow Frequency Return Periods for Mitigated. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.260561
5 year	1.494693
10 year	1.621198
25 year	1.757855
50 year	1.846559
100 year	1.926312

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #1

Year	Predeveloped	Mitigated
1956	1.321	1.321
1957	1.654	1.654
1958	1.279	1.279
1959	1.261	1.261
1960	1.310	1.310
1961	1.078	1.078
1962	1.730	1.730
1963	1.591	1.591
1964	1.384	1.384
1965	1.375	1.375
1966	1.341	1.341
1967	0.859	0.859
1968	1.297	1.297
1969	1.228	1.228
1970	1.173	1.173
1971	1.768	1.768
1972	1.491	1.491
1973	1.405	1.405
1974	1.334	1.334
1975	1.186	1.186
1976	1.450	1.450
1977	1.055	1.055
1978	1.842	1.842
1979	1.155	1.155
1980	1.066	1.066
1981	1.365	1.365
1982	1.573	1.573
1983	1.241	1.241
1984	1.142	1.142
1985	0.879	0.879
1986	1.386	1.386
1987	0.967	0.967
1988	1.465	1.465
1989	1.239	1.239
1990	1.597	1.597
1991	1.057	1.057
1992	0.831	0.831
1993	0.935	0.935
1994	1.170	1.170
1995	1.152	1.152
1996	1.400	1.400
1997	1.365	1.365
1998	0.852	0.852
1999	1.079	1.079
2000	0.992	0.992
2001	0.980	0.980
2002	1.506	1.506
2003	1.685	1.685
2004	1.570	1.570
2005	1.245	1.245
2006	1.268	1.268
2007	1.493	1.493
2008	0.790	0.790
2009	0.747	0.747

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	1.8425	1.8425
2	1.7682	1.7682
3	1.7295	1.7295
4	1.6852	1.6852
5	1.6536	1.6536
6	1.5972	1.5972
7	1.5908	1.5908
8	1.5734	1.5734
9	1.5700	1.5700
10	1.5062	1.5062
11	1.4929	1.4929
12	1.4911	1.4911
13	1.4649	1.4649
14	1.4497	1.4497
15	1.4047	1.4047
16	1.4004	1.4004
17	1.3860	1.3860
18	1.3840	1.3840
19	1.3750	1.3750
20	1.3648	1.3648
21	1.3647	1.3647
22	1.3406	1.3406
23	1.3341	1.3341
24	1.3213	1.3213
25	1.3097	1.3097
26	1.2974	1.2974
27	1.2795	1.2795
28	1.2675	1.2675
29	1.2612	1.2612
30	1.2447	1.2447
31	1.2408	1.2408
32	1.2391	1.2391
33	1.2285	1.2285
34	1.1860	1.1860
35	1.1733	1.1733
36	1.1700	1.1700
37	1.1546	1.1546
38	1.1520	1.1520
39	1.1418	1.1418
40	1.0789	1.0789
41	1.0778	1.0778
42	1.0660	1.0660
43	1.0569	1.0569
44	1.0546	1.0546
45	0.9915	0.9915
46	0.9801	0.9801
47	0.9674	0.9674
48	0.9346	0.9346
49	0.8790	0.8790
50	0.8592	0.8592
51	0.8524	0.8524
52	0.8308	0.8308
53	0.7895	0.7895

Stream Protection Duration**POC #1****The Facility PASSED****The Facility PASSED.**

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.6303	1098	1098	100	Pass
0.6426	1028	1028	100	Pass
0.6549	959	959	100	Pass
0.6671	884	884	100	Pass
0.6794	830	830	100	Pass
0.6917	770	770	100	Pass
0.7040	718	718	100	Pass
0.7163	658	658	100	Pass
0.7286	608	608	100	Pass
0.7409	564	564	100	Pass
0.7531	526	526	100	Pass
0.7654	493	493	100	Pass
0.7777	463	463	100	Pass
0.7900	426	426	100	Pass
0.8023	395	395	100	Pass
0.8146	368	368	100	Pass
0.8269	344	344	100	Pass
0.8391	318	318	100	Pass
0.8514	299	299	100	Pass
0.8637	285	285	100	Pass
0.8760	269	269	100	Pass
0.8883	256	256	100	Pass
0.9006	238	238	100	Pass
0.9129	228	228	100	Pass
0.9251	215	215	100	Pass
0.9374	201	201	100	Pass
0.9497	194	194	100	Pass
0.9620	185	185	100	Pass
0.9743	174	174	100	Pass
0.9866	167	167	100	Pass
0.9988	159	159	100	Pass
1.0111	150	150	100	Pass
1.0234	142	142	100	Pass
1.0357	136	136	100	Pass
1.0480	127	127	100	Pass
1.0603	116	116	100	Pass
1.0726	109	109	100	Pass
1.0848	100	100	100	Pass
1.0971	98	98	100	Pass
1.1094	93	93	100	Pass
1.1217	91	91	100	Pass
1.1340	89	89	100	Pass
1.1463	81	81	100	Pass
1.1586	77	77	100	Pass
1.1708	74	74	100	Pass
1.1831	70	70	100	Pass
1.1954	64	64	100	Pass

1.2077	63	63	100	Pass
1.2200	61	61	100	Pass
1.2323	57	57	100	Pass
1.2446	53	53	100	Pass
1.2568	51	51	100	Pass
1.2691	46	46	100	Pass
1.2814	43	43	100	Pass
1.2937	43	43	100	Pass
1.3060	42	42	100	Pass
1.3183	40	40	100	Pass
1.3306	38	38	100	Pass
1.3428	34	34	100	Pass
1.3551	34	34	100	Pass
1.3674	32	32	100	Pass
1.3797	29	29	100	Pass
1.3920	26	26	100	Pass
1.4043	24	24	100	Pass
1.4166	23	23	100	Pass
1.4288	23	23	100	Pass
1.4411	23	23	100	Pass
1.4534	21	21	100	Pass
1.4657	19	19	100	Pass
1.4780	18	18	100	Pass
1.4903	17	17	100	Pass
1.5026	14	14	100	Pass
1.5148	13	13	100	Pass
1.5271	12	12	100	Pass
1.5394	11	11	100	Pass
1.5517	11	11	100	Pass
1.5640	11	11	100	Pass
1.5763	9	9	100	Pass
1.5886	9	9	100	Pass
1.6008	7	7	100	Pass
1.6131	6	6	100	Pass
1.6254	6	6	100	Pass
1.6377	6	6	100	Pass
1.6500	6	6	100	Pass
1.6623	5	5	100	Pass
1.6746	4	4	100	Pass
1.6868	3	3	100	Pass
1.6991	3	3	100	Pass
1.7114	3	3	100	Pass
1.7237	3	3	100	Pass
1.7360	2	2	100	Pass
1.7483	2	2	100	Pass
1.7606	2	2	100	Pass
1.7728	1	1	100	Pass
1.7851	1	1	100	Pass
1.7974	1	1	100	Pass
1.8097	1	1	100	Pass
1.8220	1	1	100	Pass
1.8343	1	1	100	Pass
1.8466	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #1
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 1

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	78.1601	78.1601	100.0	Pass
Feb	59.8142	59.8142	100.0	Pass
Mar	53.3050	53.3050	100.0	Pass
Apr	30.0786	30.0786	100.0	Pass
May	16.5523	16.5523	100.0	Pass
Jun	11.1002	11.1002	100.0	Pass
Jul	5.5347	5.5347	100.0	Pass
Aug	8.2598	8.2598	100.0	Pass
Sep	18.4974	18.4974	100.0	Pass
Oct	44.5103	44.5103	100.0	Pass
Nov	74.5434	74.5434	100.0	Pass
Dec	75.3590	75.3590	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	2.5102	2.5102	100.0	Pass
2	1.9575	1.9575	100.0	Pass
3	2.5248	2.5248	100.0	Pass
4	2.9854	2.9854	100.0	Pass
5	2.1260	2.1260	100.0	Pass
6	3.2684	3.2684	100.0	Pass
7	2.4805	2.4805	100.0	Pass
8	2.5051	2.5051	100.0	Pass
9	2.6925	2.6925	100.0	Pass
10	2.5973	2.5973	100.0	Pass
11	3.2000	3.2000	100.0	Pass
12	2.4726	2.4726	100.0	Pass
13	3.1644	3.1644	100.0	Pass
14	3.1374	3.1374	100.0	Pass
15	2.8484	2.8484	100.0	Pass
16	2.3072	2.3072	100.0	Pass
17	2.2216	2.2216	100.0	Pass
18	1.9629	1.9629	100.0	Pass
19	1.9770	1.9770	100.0	Pass
20	1.2735	1.2735	100.0	Pass
21	2.5679	2.5679	100.0	Pass
22	3.0632	3.0632	100.0	Pass
23	3.4075	3.4075	100.0	Pass
24	2.2710	2.2710	100.0	Pass
25	1.9291	1.9291	100.0	Pass
26	1.7431	1.7431	100.0	Pass
27	2.2539	2.2539	100.0	Pass
28	2.8729	2.8729	100.0	Pass
29	2.1575	2.1575	100.0	Pass
30	2.5896	2.5896	100.0	Pass
31	1.5087	1.5087	100.0	Pass
Feb1	1.7546	1.7546	100.0	Pass

	2	1.6130	1.6130	100.0	Pass
	3	1.4494	1.4494	100.0	Pass
	4	1.3420	1.3420	100.0	Pass
	5	2.5341	2.5341	100.0	Pass
	6	1.2210	1.2210	100.0	Pass
	7	1.8452	1.8452	100.0	Pass
	8	1.3828	1.3828	100.0	Pass
	9	1.6955	1.6955	100.0	Pass
	10	2.2663	2.2663	100.0	Pass
	11	2.9668	2.9668	100.0	Pass
	12	2.2837	2.2837	100.0	Pass
	13	2.4736	2.4736	100.0	Pass
	14	3.5056	3.5056	100.0	Pass
	15	2.4823	2.4823	100.0	Pass
	16	3.3135	3.3135	100.0	Pass
	17	2.8845	2.8845	100.0	Pass
	18	2.2361	2.2361	100.0	Pass
	19	1.9542	1.9542	100.0	Pass
	20	1.8957	1.8957	100.0	Pass
	21	1.5555	1.5555	100.0	Pass
	22	2.3178	2.3178	100.0	Pass
	23	2.1911	2.1911	100.0	Pass
	24	2.4142	2.4142	100.0	Pass
	25	2.1447	2.1447	100.0	Pass
	26	2.0980	2.0980	100.0	Pass
	27	1.8416	1.8416	100.0	Pass
	28	2.3383	2.3383	100.0	Pass
	29	1.7829	1.7829	100.0	Pass
Mar1		1.7666	1.7666	100.0	Pass
	2	1.4352	1.4352	100.0	Pass
	3	2.0628	2.0628	100.0	Pass
	4	2.1521	2.1521	100.0	Pass
	5	1.6728	1.6728	100.0	Pass
	6	2.1290	2.1290	100.0	Pass
	7	2.1093	2.1093	100.0	Pass
	8	2.0228	2.0228	100.0	Pass
	9	2.0306	2.0306	100.0	Pass
	10	1.7517	1.7517	100.0	Pass
	11	1.9152	1.9152	100.0	Pass
	12	1.6967	1.6967	100.0	Pass
	13	2.0703	2.0703	100.0	Pass
	14	1.6212	1.6212	100.0	Pass
	15	1.3187	1.3187	100.0	Pass
	16	1.2829	1.2829	100.0	Pass
	17	1.7520	1.7520	100.0	Pass
	18	1.0505	1.0505	100.0	Pass
	19	1.6214	1.6214	100.0	Pass
	20	1.2897	1.2897	100.0	Pass
	21	2.2150	2.2150	100.0	Pass
	22	2.4742	2.4742	100.0	Pass
	23	1.9971	1.9971	100.0	Pass
	24	1.2494	1.2494	100.0	Pass
	25	2.0079	2.0079	100.0	Pass
	26	1.4216	1.4216	100.0	Pass
	27	1.3881	1.3881	100.0	Pass
	28	1.5468	1.5468	100.0	Pass
	29	1.4252	1.4252	100.0	Pass

30	1.0509	1.0509	100.0	Pass
31	0.8514	0.8514	100.0	Pass
Apr1	0.9215	0.9215	100.0	Pass
2	1.0456	1.0456	100.0	Pass
3	1.4675	1.4675	100.0	Pass
4	1.3020	1.3020	100.0	Pass
5	1.3875	1.3875	100.0	Pass
6	0.7275	0.7275	100.0	Pass
7	1.2654	1.2654	100.0	Pass
8	1.2543	1.2543	100.0	Pass
9	1.1245	1.1245	100.0	Pass
10	1.0936	1.0936	100.0	Pass
11	1.5481	1.5481	100.0	Pass
12	1.2977	1.2977	100.0	Pass
13	1.3675	1.3675	100.0	Pass
14	1.1512	1.1512	100.0	Pass
15	1.2294	1.2294	100.0	Pass
16	0.6681	0.6681	100.0	Pass
17	0.9567	0.9567	100.0	Pass
18	1.1047	1.1047	100.0	Pass
19	0.5674	0.5674	100.0	Pass
20	0.5703	0.5703	100.0	Pass
21	0.9886	0.9886	100.0	Pass
22	0.8212	0.8212	100.0	Pass
23	0.7063	0.7063	100.0	Pass
24	0.5652	0.5652	100.0	Pass
25	0.6973	0.6973	100.0	Pass
26	1.1622	1.1622	100.0	Pass
27	0.8883	0.8883	100.0	Pass
28	0.9213	0.9213	100.0	Pass
29	0.4296	0.4296	100.0	Pass
30	0.6118	0.6118	100.0	Pass
May1	0.9668	0.9668	100.0	Pass
2	0.6751	0.6751	100.0	Pass
3	0.7472	0.7472	100.0	Pass
4	0.5697	0.5697	100.0	Pass
5	0.5555	0.5555	100.0	Pass
6	0.4727	0.4727	100.0	Pass
7	0.6334	0.6334	100.0	Pass
8	0.3782	0.3782	100.0	Pass
9	0.5488	0.5488	100.0	Pass
10	0.4422	0.4422	100.0	Pass
11	0.4182	0.4182	100.0	Pass
12	0.5926	0.5926	100.0	Pass
13	0.6358	0.6358	100.0	Pass
14	0.6194	0.6194	100.0	Pass
15	0.4008	0.4008	100.0	Pass
16	0.5435	0.5435	100.0	Pass
17	0.4340	0.4340	100.0	Pass
18	0.7281	0.7281	100.0	Pass
19	0.3702	0.3702	100.0	Pass
20	0.3712	0.3712	100.0	Pass
21	0.3835	0.3835	100.0	Pass
22	0.4677	0.4677	100.0	Pass
23	0.4049	0.4049	100.0	Pass
24	0.4270	0.4270	100.0	Pass
25	0.3538	0.3538	100.0	Pass

26	0.6293	0.6293	100.0	Pass
27	0.4830	0.4830	100.0	Pass
28	0.5249	0.5249	100.0	Pass
29	0.7129	0.7129	100.0	Pass
30	0.4521	0.4521	100.0	Pass
31	0.4953	0.4953	100.0	Pass
Jun1	0.3673	0.3673	100.0	Pass
2	0.6345	0.6345	100.0	Pass
3	0.5919	0.5919	100.0	Pass
4	0.4305	0.4305	100.0	Pass
5	0.7194	0.7194	100.0	Pass
6	0.2531	0.2531	100.0	Pass
7	0.4054	0.4054	100.0	Pass
8	0.5889	0.5889	100.0	Pass
9	0.4388	0.4388	100.0	Pass
10	0.4235	0.4235	100.0	Pass
11	0.3017	0.3017	100.0	Pass
12	0.3801	0.3801	100.0	Pass
13	0.6012	0.6012	100.0	Pass
14	0.2344	0.2344	100.0	Pass
15	0.4898	0.4898	100.0	Pass
16	0.2024	0.2024	100.0	Pass
17	0.2966	0.2966	100.0	Pass
18	0.1954	0.1954	100.0	Pass
19	0.2473	0.2473	100.0	Pass
20	0.2774	0.2774	100.0	Pass
21	0.2604	0.2604	100.0	Pass
22	0.1445	0.1445	100.0	Pass
23	0.7684	0.7684	100.0	Pass
24	0.1817	0.1817	100.0	Pass
25	0.3361	0.3361	100.0	Pass
26	0.2019	0.2019	100.0	Pass
27	0.1877	0.1877	100.0	Pass
28	0.1938	0.1938	100.0	Pass
29	0.2525	0.2525	100.0	Pass
30	0.5330	0.5330	100.0	Pass
Jul1	0.1285	0.1285	100.0	Pass
2	0.1158	0.1158	100.0	Pass
3	0.1310	0.1310	100.0	Pass
4	0.3209	0.3209	100.0	Pass
5	0.2334	0.2334	100.0	Pass
6	0.1783	0.1783	100.0	Pass
7	0.3363	0.3363	100.0	Pass
8	0.1853	0.1853	100.0	Pass
9	0.3987	0.3987	100.0	Pass
10	0.2541	0.2541	100.0	Pass
11	0.5093	0.5093	100.0	Pass
12	0.2348	0.2348	100.0	Pass
13	0.1857	0.1857	100.0	Pass
14	0.2957	0.2957	100.0	Pass
15	0.1202	0.1202	100.0	Pass
16	0.0756	0.0756	100.0	Pass
17	0.2569	0.2569	100.0	Pass
18	0.0812	0.0812	100.0	Pass
19	0.1118	0.1118	100.0	Pass
20	0.1919	0.1919	100.0	Pass
21	0.1484	0.1484	100.0	Pass

22	0.0091	0.0091	100.0	Pass
23	0.0433	0.0433	100.0	Pass
24	0.0498	0.0498	100.0	Pass
25	0.1152	0.1152	100.0	Pass
26	0.0510	0.0510	100.0	Pass
27	0.0720	0.0720	100.0	Pass
28	0.0609	0.0609	100.0	Pass
29	0.0391	0.0391	100.0	Pass
30	0.0681	0.0681	100.0	Pass
31	0.0759	0.0759	100.0	Pass
Aug1	0.3088	0.3088	100.0	Pass
2	0.1056	0.1056	100.0	Pass
3	0.0424	0.0424	100.0	Pass
4	0.0412	0.0412	100.0	Pass
5	0.3491	0.3491	100.0	Pass
6	0.2359	0.2359	100.0	Pass
7	0.0832	0.0832	100.0	Pass
8	0.0867	0.0867	100.0	Pass
9	0.0077	0.0077	100.0	Pass
10	0.0480	0.0480	100.0	Pass
11	0.2250	0.2250	100.0	Pass
12	0.1964	0.1964	100.0	Pass
13	0.2420	0.2420	100.0	Pass
14	0.1435	0.1435	100.0	Pass
15	0.1290	0.1290	100.0	Pass
16	0.1174	0.1174	100.0	Pass
17	0.2291	0.2291	100.0	Pass
18	0.4293	0.4293	100.0	Pass
19	0.1156	0.1156	100.0	Pass
20	0.3359	0.3359	100.0	Pass
21	0.3014	0.3014	100.0	Pass
22	0.5921	0.5921	100.0	Pass
23	0.5431	0.5431	100.0	Pass
24	0.4522	0.4522	100.0	Pass
25	0.1807	0.1807	100.0	Pass
26	0.5653	0.5653	100.0	Pass
27	0.5701	0.5701	100.0	Pass
28	0.5619	0.5619	100.0	Pass
29	0.3602	0.3602	100.0	Pass
30	0.5857	0.5857	100.0	Pass
31	0.9182	0.9182	100.0	Pass
Sep1	0.3365	0.3365	100.0	Pass
2	0.3519	0.3519	100.0	Pass
3	0.3915	0.3915	100.0	Pass
4	0.4982	0.4982	100.0	Pass
5	0.4212	0.4212	100.0	Pass
6	0.2929	0.2929	100.0	Pass
7	0.5742	0.5742	100.0	Pass
8	0.3589	0.3589	100.0	Pass
9	0.9375	0.9375	100.0	Pass
10	0.2074	0.2074	100.0	Pass
11	0.1849	0.1849	100.0	Pass
12	0.5038	0.5038	100.0	Pass
13	0.9170	0.9170	100.0	Pass
14	0.5745	0.5745	100.0	Pass
15	0.8853	0.8853	100.0	Pass
16	0.9166	0.9166	100.0	Pass

17	1.0088	1.0088	100.0	Pass
18	0.9017	0.9017	100.0	Pass
19	0.9587	0.9587	100.0	Pass
20	0.6821	0.6821	100.0	Pass
21	0.9558	0.9558	100.0	Pass
22	0.7605	0.7605	100.0	Pass
23	0.6100	0.6100	100.0	Pass
24	0.4351	0.4351	100.0	Pass
25	0.4749	0.4749	100.0	Pass
26	0.4759	0.4759	100.0	Pass
27	0.6448	0.6448	100.0	Pass
28	0.5677	0.5677	100.0	Pass
29	0.7531	0.7531	100.0	Pass
30	0.5305	0.5305	100.0	Pass
Oct1	0.3768	0.3768	100.0	Pass
2	0.9748	0.9748	100.0	Pass
3	0.8607	0.8607	100.0	Pass
4	1.0503	1.0503	100.0	Pass
5	1.1133	1.1133	100.0	Pass
6	1.2256	1.2256	100.0	Pass
7	1.5667	1.5667	100.0	Pass
8	1.2563	1.2563	100.0	Pass
9	0.9685	0.9685	100.0	Pass
10	0.7925	0.7925	100.0	Pass
11	1.5430	1.5430	100.0	Pass
12	1.0151	1.0151	100.0	Pass
13	1.4394	1.4394	100.0	Pass
14	0.7899	0.7899	100.0	Pass
15	0.9602	0.9602	100.0	Pass
16	1.2844	1.2844	100.0	Pass
17	1.1738	1.1738	100.0	Pass
18	1.8922	1.8922	100.0	Pass
19	2.3164	2.3164	100.0	Pass
20	1.9869	1.9869	100.0	Pass
21	2.4032	2.4032	100.0	Pass
22	1.3662	1.3662	100.0	Pass
23	2.3364	2.3364	100.0	Pass
24	2.0327	2.0327	100.0	Pass
25	1.8066	1.8066	100.0	Pass
26	2.2133	2.2133	100.0	Pass
27	1.8540	1.8540	100.0	Pass
28	1.7295	1.7295	100.0	Pass
29	1.4527	1.4527	100.0	Pass
30	2.2047	2.2047	100.0	Pass
31	1.8213	1.8213	100.0	Pass
Nov1	2.3145	2.3145	100.0	Pass
2	2.8273	2.8273	100.0	Pass
3	2.1383	2.1383	100.0	Pass
4	2.1933	2.1933	100.0	Pass
5	2.4305	2.4305	100.0	Pass
6	1.9994	1.9994	100.0	Pass
7	1.8153	1.8153	100.0	Pass
8	2.3933	2.3933	100.0	Pass
9	2.8214	2.8214	100.0	Pass
10	2.3872	2.3872	100.0	Pass
11	2.6826	2.6826	100.0	Pass
12	2.4787	2.4787	100.0	Pass

13	1.8104	1.8104	100.0	Pass
14	2.1781	2.1781	100.0	Pass
15	2.4443	2.4443	100.0	Pass
16	2.5626	2.5626	100.0	Pass
17	2.3186	2.3186	100.0	Pass
18	3.4565	3.4565	100.0	Pass
19	3.0413	3.0413	100.0	Pass
20	1.9589	1.9589	100.0	Pass
21	3.1985	3.1985	100.0	Pass
22	3.8113	3.8113	100.0	Pass
23	2.8185	2.8185	100.0	Pass
24	3.2664	3.2664	100.0	Pass
25	2.0864	2.0864	100.0	Pass
26	1.6925	1.6925	100.0	Pass
27	2.1329	2.1329	100.0	Pass
28	2.0352	2.0352	100.0	Pass
29	3.4326	3.4326	100.0	Pass
30	2.6722	2.6722	100.0	Pass
Dec1	2.9784	2.9784	100.0	Pass
2	2.8553	2.8553	100.0	Pass
3	1.7872	1.7872	100.0	Pass
4	2.0346	2.0346	100.0	Pass
5	1.7237	1.7237	100.0	Pass
6	1.5110	1.5110	100.0	Pass
7	2.2305	2.2305	100.0	Pass
8	2.8049	2.8049	100.0	Pass
9	2.7429	2.7429	100.0	Pass
10	2.9554	2.9554	100.0	Pass
11	2.1213	2.1213	100.0	Pass
12	2.3307	2.3307	100.0	Pass
13	3.5314	3.5314	100.0	Pass
14	2.3561	2.3561	100.0	Pass
15	3.1753	3.1753	100.0	Pass
16	2.0615	2.0615	100.0	Pass
17	2.5317	2.5317	100.0	Pass
18	2.0603	2.0603	100.0	Pass
19	2.4668	2.4668	100.0	Pass
20	2.3849	2.3849	100.0	Pass
21	2.6267	2.6267	100.0	Pass
22	2.5901	2.5901	100.0	Pass
23	2.8290	2.8290	100.0	Pass
24	3.1523	3.1523	100.0	Pass
25	2.6750	2.6750	100.0	Pass
26	2.4355	2.4355	100.0	Pass
27	1.6066	1.6066	100.0	Pass
28	2.6503	2.6503	100.0	Pass
29	1.6838	1.6838	100.0	Pass
30	1.7981	1.7981	100.0	Pass
31	3.0991	3.0991	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #2
Total Pervious Area:0.046
Total Impervious Area:1.02

Mitigated Landuse Totals for POC #2
Total Pervious Area:0.046
Total Impervious Area:1.02

Flow Frequency Return Periods for Predeveloped. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.764417
5 year	0.903626
10 year	0.980596
25 year	1.065412
50 year	1.121517
100 year	1.172744

Flow Frequency Return Periods for Mitigated. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.764417
5 year	0.903626
10 year	0.980596
25 year	1.065412
50 year	1.121517
100 year	1.172744

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #2

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.792	0.792
1957	1.002	1.002
1958	0.782	0.782
1959	0.759	0.759
1960	0.786	0.786
1961	0.668	0.668
1962	1.036	1.036
1963	0.956	0.956
1964	0.842	0.842
1965	0.830	0.830
1966	0.805	0.805
1967	0.526	0.526
1968	0.783	0.783
1969	0.737	0.737
1970	0.722	0.722
1971	1.062	1.062
1972	0.892	0.892
1973	0.853	0.853
1974	0.800	0.800
1975	0.718	0.718
1976	0.874	0.874
1977	0.642	0.642
1978	1.117	1.117
1979	0.698	0.698
1980	0.649	0.649

1981	0.831	0.831
1982	0.957	0.957
1983	0.754	0.754
1984	0.690	0.690
1985	0.546	0.546
1986	0.838	0.838
1987	0.587	0.587
1988	0.885	0.885
1989	0.753	0.753
1990	0.960	0.960
1991	0.661	0.661
1992	0.515	0.515
1993	0.578	0.578
1994	0.711	0.711
1995	0.722	0.722
1996	0.872	0.872
1997	0.832	0.832
1998	0.532	0.532
1999	0.658	0.658
2000	0.612	0.612
2001	0.607	0.607
2002	0.952	0.952
2003	1.009	1.009
2004	0.945	0.945
2005	0.753	0.753
2006	0.766	0.766
2007	0.898	0.898
2008	0.487	0.487
2009	0.463	0.463

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	1.1175	1.1175
2	1.0622	1.0622
3	1.0363	1.0363
4	1.0091	1.0091
5	1.0015	1.0015
6	0.9596	0.9596
7	0.9570	0.9570
8	0.9562	0.9562
9	0.9522	0.9522
10	0.9451	0.9451
11	0.8975	0.8975
12	0.8920	0.8920
13	0.8848	0.8848
14	0.8743	0.8743
15	0.8722	0.8722
16	0.8532	0.8532
17	0.8419	0.8419
18	0.8381	0.8381
19	0.8316	0.8316
20	0.8308	0.8308
21	0.8302	0.8302
22	0.8049	0.8049
23	0.8005	0.8005

24	0.7919	0.7919
25	0.7855	0.7855
26	0.7830	0.7830
27	0.7822	0.7822
28	0.7659	0.7659
29	0.7588	0.7588
30	0.7541	0.7541
31	0.7533	0.7533
32	0.7530	0.7530
33	0.7373	0.7373
34	0.7216	0.7216
35	0.7216	0.7216
36	0.7181	0.7181
37	0.7106	0.7106
38	0.6980	0.6980
39	0.6900	0.6900
40	0.6676	0.6676
41	0.6614	0.6614
42	0.6577	0.6577
43	0.6491	0.6491
44	0.6424	0.6424
45	0.6119	0.6119
46	0.6069	0.6069
47	0.5872	0.5872
48	0.5782	0.5782
49	0.5461	0.5461
50	0.5321	0.5321
51	0.5259	0.5259
52	0.5148	0.5148
53	0.4870	0.4870
54	0.4629	0.4629

Stream Protection Duration

POC #2

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.3822	1179	1179	100	Pass
0.3897	1101	1101	100	Pass
0.3971	1023	1023	100	Pass
0.4046	971	971	100	Pass
0.4121	891	891	100	Pass
0.4195	840	840	100	Pass
0.4270	766	766	100	Pass
0.4345	709	709	100	Pass
0.4420	666	666	100	Pass
0.4494	603	603	100	Pass
0.4569	565	565	100	Pass
0.4644	520	520	100	Pass
0.4718	490	490	100	Pass
0.4793	446	446	100	Pass
0.4868	418	418	100	Pass
0.4942	391	391	100	Pass
0.5017	359	359	100	Pass

0.5092	334	334	100	Pass
0.5166	315	315	100	Pass
0.5241	298	298	100	Pass
0.5316	282	282	100	Pass
0.5390	261	261	100	Pass
0.5465	248	248	100	Pass
0.5540	234	234	100	Pass
0.5614	220	220	100	Pass
0.5689	214	214	100	Pass
0.5764	200	200	100	Pass
0.5838	190	190	100	Pass
0.5913	183	183	100	Pass
0.5988	173	173	100	Pass
0.6062	167	167	100	Pass
0.6137	155	155	100	Pass
0.6212	147	147	100	Pass
0.6286	138	138	100	Pass
0.6361	128	128	100	Pass
0.6436	120	120	100	Pass
0.6510	109	109	100	Pass
0.6585	107	107	100	Pass
0.6660	104	104	100	Pass
0.6735	97	97	100	Pass
0.6809	95	95	100	Pass
0.6884	92	92	100	Pass
0.6959	81	81	100	Pass
0.7033	77	77	100	Pass
0.7108	75	75	100	Pass
0.7183	71	71	100	Pass
0.7257	64	64	100	Pass
0.7332	62	62	100	Pass
0.7407	59	59	100	Pass
0.7481	56	56	100	Pass
0.7556	52	52	100	Pass
0.7631	49	49	100	Pass
0.7705	48	48	100	Pass
0.7780	47	47	100	Pass
0.7855	42	42	100	Pass
0.7929	39	39	100	Pass
0.8004	37	37	100	Pass
0.8079	34	34	100	Pass
0.8153	34	34	100	Pass
0.8228	33	33	100	Pass
0.8303	32	32	100	Pass
0.8377	28	28	100	Pass
0.8452	26	26	100	Pass
0.8527	25	25	100	Pass
0.8601	24	24	100	Pass
0.8676	24	24	100	Pass
0.8751	22	22	100	Pass
0.8825	21	21	100	Pass
0.8900	18	18	100	Pass
0.8975	17	17	100	Pass
0.9050	14	14	100	Pass
0.9124	14	14	100	Pass
0.9199	13	13	100	Pass
0.9274	12	12	100	Pass

0.9348	12	12	100	Pass
0.9423	12	12	100	Pass
0.9498	11	11	100	Pass
0.9572	8	8	100	Pass
0.9647	6	6	100	Pass
0.9722	6	6	100	Pass
0.9796	6	6	100	Pass
0.9871	6	6	100	Pass
0.9946	6	6	100	Pass
1.0020	4	4	100	Pass
1.0095	4	4	100	Pass
1.0170	3	3	100	Pass
1.0244	3	3	100	Pass
1.0319	3	3	100	Pass
1.0394	2	2	100	Pass
1.0468	2	2	100	Pass
1.0543	2	2	100	Pass
1.0618	2	2	100	Pass
1.0692	1	1	100	Pass
1.0767	1	1	100	Pass
1.0842	1	1	100	Pass
1.0916	1	1	100	Pass
1.0991	1	1	100	Pass
1.1066	1	1	100	Pass
1.1140	1	1	100	Pass
1.1215	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #2
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 2
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	46.5837	46.5837	100.0	Pass
Feb	35.5964	35.5964	100.0	Pass
Mar	31.7544	31.7544	100.0	Pass
Apr	18.0139	18.0139	100.0	Pass
May	10.0711	10.0711	100.0	Pass
Jun	6.8056	6.8056	100.0	Pass
Jul	3.4214	3.4214	100.0	Pass
Aug	5.1330	5.1330	100.0	Pass
Sep	11.3561	11.3561	100.0	Pass
Oct	27.0055	27.0055	100.0	Pass
Nov	44.6486	44.6486	100.0	Pass
Dec	44.9047	44.9047	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.4988	1.4988	100.0	Pass
2	1.1570	1.1570	100.0	Pass

3	1.5115	1.5115	100.0	Pass
4	1.8000	1.8000	100.0	Pass
5	1.2557	1.2557	100.0	Pass
6	1.9730	1.9730	100.0	Pass
7	1.4684	1.4684	100.0	Pass
8	1.4901	1.4901	100.0	Pass
9	1.6133	1.6133	100.0	Pass
10	1.5449	1.5449	100.0	Pass
11	1.9162	1.9162	100.0	Pass
12	1.4617	1.4617	100.0	Pass
13	1.8948	1.8948	100.0	Pass
14	1.8714	1.8714	100.0	Pass
15	1.6909	1.6909	100.0	Pass
16	1.3526	1.3526	100.0	Pass
17	1.3085	1.3085	100.0	Pass
18	1.1553	1.1553	100.0	Pass
19	1.1734	1.1734	100.0	Pass
20	0.7392	0.7392	100.0	Pass
21	1.5644	1.5644	100.0	Pass
22	1.8450	1.8450	100.0	Pass
23	2.0423	2.0423	100.0	Pass
24	1.3325	1.3325	100.0	Pass
25	1.1306	1.1306	100.0	Pass
26	1.0220	1.0220	100.0	Pass
27	1.3499	1.3499	100.0	Pass
28	1.7272	1.7272	100.0	Pass
29	1.2759	1.2759	100.0	Pass
30	1.5502	1.5502	100.0	Pass
31	0.8767	0.8767	100.0	Pass
Feb1	1.0390	1.0390	100.0	Pass
2	0.9596	0.9596	100.0	Pass
3	0.8580	0.8580	100.0	Pass
4	0.7945	0.7945	100.0	Pass
5	1.5357	1.5357	100.0	Pass
6	0.7073	0.7073	100.0	Pass
7	1.1079	1.1079	100.0	Pass
8	0.8177	0.8177	100.0	Pass
9	1.0200	1.0200	100.0	Pass
10	1.3711	1.3711	100.0	Pass
11	1.7879	1.7879	100.0	Pass
12	1.3521	1.3521	100.0	Pass
13	1.4791	1.4791	100.0	Pass
14	2.1189	2.1189	100.0	Pass
15	1.4625	1.4625	100.0	Pass
16	1.9882	1.9882	100.0	Pass
17	1.7129	1.7129	100.0	Pass
18	1.3067	1.3067	100.0	Pass
19	1.1453	1.1453	100.0	Pass
20	1.1170	1.1170	100.0	Pass
21	0.9161	0.9161	100.0	Pass
22	1.3901	1.3901	100.0	Pass
23	1.3075	1.3075	100.0	Pass
24	1.4426	1.4426	100.0	Pass
25	1.2718	1.2718	100.0	Pass
26	1.2417	1.2417	100.0	Pass
27	1.0868	1.0868	100.0	Pass
28	1.3906	1.3906	100.0	Pass

29	1.0565	1.0565	100.0	Pass
Mar1	1.0505	1.0505	100.0	Pass
2	0.8465	0.8465	100.0	Pass
3	1.2397	1.2397	100.0	Pass
4	1.2894	1.2894	100.0	Pass
5	0.9926	0.9926	100.0	Pass
6	1.2704	1.2704	100.0	Pass
7	1.2655	1.2655	100.0	Pass
8	1.2058	1.2058	100.0	Pass
9	1.2101	1.2101	100.0	Pass
10	1.0366	1.0366	100.0	Pass
11	1.1404	1.1404	100.0	Pass
12	1.0083	1.0083	100.0	Pass
13	1.2389	1.2389	100.0	Pass
14	0.9586	0.9586	100.0	Pass
15	0.7766	0.7766	100.0	Pass
16	0.7615	0.7615	100.0	Pass
17	1.0484	1.0484	100.0	Pass
18	0.6156	0.6156	100.0	Pass
19	0.9763	0.9763	100.0	Pass
20	0.7681	0.7681	100.0	Pass
21	1.3428	1.3428	100.0	Pass
22	1.4952	1.4952	100.0	Pass
23	1.1852	1.1852	100.0	Pass
24	0.7228	0.7228	100.0	Pass
25	1.2065	1.2065	100.0	Pass
26	0.8364	0.8364	100.0	Pass
27	0.8264	0.8264	100.0	Pass
28	0.9205	0.9205	100.0	Pass
29	0.8492	0.8492	100.0	Pass
30	0.6173	0.6173	100.0	Pass
31	0.5001	0.5001	100.0	Pass
Apr1	0.5487	0.5487	100.0	Pass
2	0.6273	0.6273	100.0	Pass
3	0.8930	0.8930	100.0	Pass
4	0.7816	0.7816	100.0	Pass
5	0.8271	0.8271	100.0	Pass
6	0.4218	0.4218	100.0	Pass
7	0.7655	0.7655	100.0	Pass
8	0.7515	0.7515	100.0	Pass
9	0.6754	0.6754	100.0	Pass
10	0.6512	0.6512	100.0	Pass
11	0.9415	0.9415	100.0	Pass
12	0.7764	0.7764	100.0	Pass
13	0.8226	0.8226	100.0	Pass
14	0.6854	0.6854	100.0	Pass
15	0.7330	0.7330	100.0	Pass
16	0.3863	0.3863	100.0	Pass
17	0.5749	0.5749	100.0	Pass
18	0.6669	0.6669	100.0	Pass
19	0.3289	0.3289	100.0	Pass
20	0.3389	0.3389	100.0	Pass
21	0.6027	0.6027	100.0	Pass
22	0.4960	0.4960	100.0	Pass
23	0.4223	0.4223	100.0	Pass
24	0.3362	0.3362	100.0	Pass
25	0.4228	0.4228	100.0	Pass

26	0.7053	0.7053	100.0	Pass
27	0.5327	0.5327	100.0	Pass
28	0.5524	0.5524	100.0	Pass
29	0.2479	0.2479	100.0	Pass
30	0.3697	0.3697	100.0	Pass
May1	0.5929	0.5929	100.0	Pass
2	0.4044	0.4044	100.0	Pass
3	0.4533	0.4533	100.0	Pass
4	0.3406	0.3406	100.0	Pass
5	0.3346	0.3346	100.0	Pass
6	0.2852	0.2852	100.0	Pass
7	0.3863	0.3863	100.0	Pass
8	0.2254	0.2254	100.0	Pass
9	0.3352	0.3352	100.0	Pass
10	0.2687	0.2687	100.0	Pass
11	0.2548	0.2548	100.0	Pass
12	0.3629	0.3629	100.0	Pass
13	0.3891	0.3891	100.0	Pass
14	0.3791	0.3791	100.0	Pass
15	0.2386	0.2386	100.0	Pass
16	0.3327	0.3327	100.0	Pass
17	0.2622	0.2622	100.0	Pass
18	0.4502	0.4502	100.0	Pass
19	0.2222	0.2222	100.0	Pass
20	0.2265	0.2265	100.0	Pass
21	0.2341	0.2341	100.0	Pass
22	0.2886	0.2886	100.0	Pass
23	0.2473	0.2473	100.0	Pass
24	0.2607	0.2607	100.0	Pass
25	0.2142	0.2142	100.0	Pass
26	0.3880	0.3880	100.0	Pass
27	0.2940	0.2940	100.0	Pass
28	0.3213	0.3213	100.0	Pass
29	0.4368	0.4368	100.0	Pass
30	0.2728	0.2728	100.0	Pass
31	0.2999	0.2999	100.0	Pass
Jun1	0.2193	0.2193	100.0	Pass
2	0.3926	0.3926	100.0	Pass
3	0.3647	0.3647	100.0	Pass
4	0.2619	0.2619	100.0	Pass
5	0.4441	0.4441	100.0	Pass
6	0.1484	0.1484	100.0	Pass
7	0.2462	0.2462	100.0	Pass
8	0.3620	0.3620	100.0	Pass
9	0.2675	0.2675	100.0	Pass
10	0.2601	0.2601	100.0	Pass
11	0.1834	0.1834	100.0	Pass
12	0.2350	0.2350	100.0	Pass
13	0.3725	0.3725	100.0	Pass
14	0.1398	0.1398	100.0	Pass
15	0.3020	0.3020	100.0	Pass
16	0.1198	0.1198	100.0	Pass
17	0.1812	0.1812	100.0	Pass
18	0.1165	0.1165	100.0	Pass
19	0.1526	0.1526	100.0	Pass
20	0.1726	0.1726	100.0	Pass
21	0.1604	0.1604	100.0	Pass

22	0.0873	0.0873	100.0	Pass
23	0.4829	0.4829	100.0	Pass
24	0.1060	0.1060	100.0	Pass
25	0.2076	0.2076	100.0	Pass
26	0.1240	0.1240	100.0	Pass
27	0.1167	0.1167	100.0	Pass
28	0.1209	0.1209	100.0	Pass
29	0.1583	0.1583	100.0	Pass
30	0.3328	0.3328	100.0	Pass
Jul1	0.0764	0.0764	100.0	Pass
2	0.0708	0.0708	100.0	Pass
3	0.0816	0.0816	100.0	Pass
4	0.2034	0.2034	100.0	Pass
5	0.1469	0.1469	100.0	Pass
6	0.1118	0.1118	100.0	Pass
7	0.2101	0.2101	100.0	Pass
8	0.1127	0.1127	100.0	Pass
9	0.2494	0.2494	100.0	Pass
10	0.1566	0.1566	100.0	Pass
11	0.3140	0.3140	100.0	Pass
12	0.1369	0.1369	100.0	Pass
13	0.1106	0.1106	100.0	Pass
14	0.1825	0.1825	100.0	Pass
15	0.0723	0.0723	100.0	Pass
16	0.0457	0.0457	100.0	Pass
17	0.1602	0.1602	100.0	Pass
18	0.0480	0.0480	100.0	Pass
19	0.0688	0.0688	100.0	Pass
20	0.1202	0.1202	100.0	Pass
21	0.0913	0.0913	100.0	Pass
22	0.0038	0.0038	100.0	Pass
23	0.0266	0.0266	100.0	Pass
24	0.0312	0.0312	100.0	Pass
25	0.0731	0.0731	100.0	Pass
26	0.0323	0.0323	100.0	Pass
27	0.0457	0.0457	100.0	Pass
28	0.0385	0.0385	100.0	Pass
29	0.0244	0.0244	100.0	Pass
30	0.0432	0.0432	100.0	Pass
31	0.0481	0.0481	100.0	Pass
Aug1	0.1957	0.1957	100.0	Pass
2	0.0649	0.0649	100.0	Pass
3	0.0251	0.0251	100.0	Pass
4	0.0251	0.0251	100.0	Pass
5	0.2201	0.2201	100.0	Pass
6	0.1470	0.1470	100.0	Pass
7	0.0505	0.0505	100.0	Pass
8	0.0538	0.0538	100.0	Pass
9	0.0041	0.0041	100.0	Pass
10	0.0301	0.0301	100.0	Pass
11	0.1427	0.1427	100.0	Pass
12	0.1240	0.1240	100.0	Pass
13	0.1524	0.1524	100.0	Pass
14	0.0886	0.0886	100.0	Pass
15	0.0789	0.0789	100.0	Pass
16	0.0729	0.0729	100.0	Pass
17	0.1449	0.1449	100.0	Pass

18	0.2718	0.2718	100.0	Pass
19	0.0700	0.0700	100.0	Pass
20	0.2117	0.2117	100.0	Pass
21	0.1878	0.1878	100.0	Pass
22	0.3708	0.3708	100.0	Pass
23	0.3362	0.3362	100.0	Pass
24	0.2737	0.2737	100.0	Pass
25	0.1055	0.1055	100.0	Pass
26	0.3528	0.3528	100.0	Pass
27	0.3530	0.3530	100.0	Pass
28	0.3455	0.3455	100.0	Pass
29	0.2201	0.2201	100.0	Pass
30	0.3653	0.3653	100.0	Pass
31	0.5701	0.5701	100.0	Pass
Sep1	0.1981	0.1981	100.0	Pass
2	0.2122	0.2122	100.0	Pass
3	0.2396	0.2396	100.0	Pass
4	0.3085	0.3085	100.0	Pass
5	0.2594	0.2594	100.0	Pass
6	0.1792	0.1792	100.0	Pass
7	0.3595	0.3595	100.0	Pass
8	0.2209	0.2209	100.0	Pass
9	0.5881	0.5881	100.0	Pass
10	0.1235	0.1235	100.0	Pass
11	0.1127	0.1127	100.0	Pass
12	0.3155	0.3155	100.0	Pass
13	0.5724	0.5724	100.0	Pass
14	0.3517	0.3517	100.0	Pass
15	0.5488	0.5488	100.0	Pass
16	0.5609	0.5609	100.0	Pass
17	0.6221	0.6221	100.0	Pass
18	0.5541	0.5541	100.0	Pass
19	0.5861	0.5861	100.0	Pass
20	0.4093	0.4093	100.0	Pass
21	0.5800	0.5800	100.0	Pass
22	0.4596	0.4596	100.0	Pass
23	0.3690	0.3690	100.0	Pass
24	0.2625	0.2625	100.0	Pass
25	0.2915	0.2915	100.0	Pass
26	0.2923	0.2923	100.0	Pass
27	0.3950	0.3950	100.0	Pass
28	0.3493	0.3493	100.0	Pass
29	0.4657	0.4657	100.0	Pass
30	0.3222	0.3222	100.0	Pass
Oct1	0.2269	0.2269	100.0	Pass
2	0.6082	0.6082	100.0	Pass
3	0.5323	0.5323	100.0	Pass
4	0.6469	0.6469	100.0	Pass
5	0.6852	0.6852	100.0	Pass
6	0.7549	0.7549	100.0	Pass
7	0.9630	0.9630	100.0	Pass
8	0.7635	0.7635	100.0	Pass
9	0.5842	0.5842	100.0	Pass
10	0.4773	0.4773	100.0	Pass
11	0.9531	0.9531	100.0	Pass
12	0.6150	0.6150	100.0	Pass
13	0.8854	0.8854	100.0	Pass

14	0.4703	0.4703	100.0	Pass
15	0.5823	0.5823	100.0	Pass
16	0.7823	0.7823	100.0	Pass
17	0.7124	0.7124	100.0	Pass
18	1.1554	1.1554	100.0	Pass
19	1.4092	1.4092	100.0	Pass
20	1.2045	1.2045	100.0	Pass
21	1.4589	1.4589	100.0	Pass
22	0.8049	0.8049	100.0	Pass
23	1.4175	1.4175	100.0	Pass
24	1.2245	1.2245	100.0	Pass
25	1.0836	1.0836	100.0	Pass
26	1.3384	1.3384	100.0	Pass
27	1.1085	1.1085	100.0	Pass
28	1.0357	1.0357	100.0	Pass
29	0.8643	0.8643	100.0	Pass
30	1.3391	1.3391	100.0	Pass
31	1.0905	1.0905	100.0	Pass
Nov1	1.3948	1.3948	100.0	Pass
2	1.7200	1.7200	100.0	Pass
3	1.2712	1.2712	100.0	Pass
4	1.3168	1.3168	100.0	Pass
5	1.4605	1.4605	100.0	Pass
6	1.1886	1.1886	100.0	Pass
7	1.0798	1.0798	100.0	Pass
8	1.4475	1.4475	100.0	Pass
9	1.7044	1.7044	100.0	Pass
10	1.4284	1.4284	100.0	Pass
11	1.6120	1.6120	100.0	Pass
12	1.4884	1.4884	100.0	Pass
13	1.0645	1.0645	100.0	Pass
14	1.3062	1.3062	100.0	Pass
15	1.4691	1.4691	100.0	Pass
16	1.5418	1.5418	100.0	Pass
17	1.3857	1.3857	100.0	Pass
18	2.0884	2.0884	100.0	Pass
19	1.8186	1.8186	100.0	Pass
20	1.1467	1.1467	100.0	Pass
21	1.9239	1.9239	100.0	Pass
22	2.3071	2.3071	100.0	Pass
23	1.6702	1.6702	100.0	Pass
24	1.9524	1.9524	100.0	Pass
25	1.2166	1.2166	100.0	Pass
26	0.9872	0.9872	100.0	Pass
27	1.2760	1.2760	100.0	Pass
28	1.2166	1.2166	100.0	Pass
29	2.0801	2.0801	100.0	Pass
30	1.5898	1.5898	100.0	Pass
Dec1	1.7841	1.7841	100.0	Pass
2	1.6994	1.6994	100.0	Pass
3	1.0426	1.0426	100.0	Pass
4	1.2099	1.2099	100.0	Pass
5	1.0155	1.0155	100.0	Pass
6	0.8959	0.8959	100.0	Pass
7	1.3466	1.3466	100.0	Pass
8	1.6948	1.6948	100.0	Pass
9	1.6431	1.6431	100.0	Pass

10	1.7661	1.7661	100.0	Pass
11	1.2535	1.2535	100.0	Pass
12	1.3895	1.3895	100.0	Pass
13	2.1371	2.1371	100.0	Pass
14	1.3858	1.3858	100.0	Pass
15	1.9083	1.9083	100.0	Pass
16	1.2062	1.2062	100.0	Pass
17	1.5113	1.5113	100.0	Pass
18	1.2196	1.2196	100.0	Pass
19	1.4819	1.4819	100.0	Pass
20	1.4208	1.4208	100.0	Pass
21	1.5648	1.5648	100.0	Pass
22	1.5469	1.5469	100.0	Pass
23	1.6937	1.6937	100.0	Pass
24	1.8950	1.8950	100.0	Pass
25	1.5846	1.5846	100.0	Pass
26	1.4387	1.4387	100.0	Pass
27	0.9373	0.9373	100.0	Pass
28	1.5940	1.5940	100.0	Pass
29	0.9848	0.9848	100.0	Pass
30	1.0677	1.0677	100.0	Pass
31	1.8735	1.8735	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #3
Total Pervious Area:0.279
Total Impervious Area:2.046

Mitigated Landuse Totals for POC #3
Total Pervious Area:0.279
Total Impervious Area:2.046

Flow Frequency Return Periods for Predeveloped. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.612974
5 year	1.912564
10 year	2.074438
25 year	2.249302
50 year	2.362806
100 year	2.464857

Flow Frequency Return Periods for Mitigated. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.612974
5 year	1.912564
10 year	2.074438
25 year	2.249302
50 year	2.362806
100 year	2.464857

Stream Protection Duration**Annual Peaks for Predeveloped and Mitigated. POC #3**

Year	Predeveloped	Mitigated
1956	1.691	1.691
1957	2.116	2.116
1958	1.637	1.637
1959	1.614	1.614
1960	1.676	1.676
1961	1.379	1.379
1962	2.213	2.213
1963	2.036	2.036
1964	1.771	1.771
1965	1.759	1.759
1966	1.715	1.715
1967	1.099	1.099
1968	1.660	1.660
1969	1.572	1.572
1970	1.501	1.501
1971	2.262	2.262
1972	1.908	1.908
1973	1.797	1.797
1974	1.707	1.707
1975	1.518	1.518
1976	1.855	1.855
1977	1.349	1.349
1978	2.358	2.358
1979	1.477	1.477
1980	1.364	1.364
1981	1.746	1.746
1982	2.013	2.013
1983	1.588	1.588
1984	1.461	1.461
1985	1.125	1.125
1986	1.773	1.773
1987	1.238	1.238
1988	1.874	1.874
1989	1.585	1.585
1990	2.044	2.044
1991	1.352	1.352
1992	1.063	1.063
1993	1.196	1.196
1994	1.497	1.497
1995	1.474	1.474
1996	1.792	1.792
1997	1.746	1.746
1998	1.091	1.091
1999	1.380	1.380
2000	1.269	1.269
2001	1.254	1.254
2002	1.927	1.927
2003	2.156	2.156
2004	2.009	2.009
2005	1.593	1.593
2006	1.622	1.622
2007	1.910	1.910

2008	1.010	1.010
2009	0.956	0.956

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	2.3576	2.3576
2	2.2625	2.2625
3	2.2130	2.2130
4	2.1563	2.1563
5	2.1159	2.1159
6	2.0437	2.0437
7	2.0356	2.0356
8	2.0133	2.0133
9	2.0089	2.0089
10	1.9273	1.9273
11	1.9102	1.9102
12	1.9080	1.9080
13	1.8744	1.8744
14	1.8550	1.8550
15	1.7975	1.7975
16	1.7919	1.7919
17	1.7735	1.7735
18	1.7709	1.7709
19	1.7594	1.7594
20	1.7464	1.7464
21	1.7462	1.7462
22	1.7153	1.7153
23	1.7071	1.7071
24	1.6907	1.6907
25	1.6759	1.6759
26	1.6601	1.6601
27	1.6372	1.6372
28	1.6219	1.6219
29	1.6137	1.6137
30	1.5927	1.5927
31	1.5877	1.5877
32	1.5855	1.5855
33	1.5719	1.5719
34	1.5175	1.5175
35	1.5013	1.5013
36	1.4971	1.4971
37	1.4774	1.4774
38	1.4741	1.4741
39	1.4610	1.4610
40	1.3805	1.3805
41	1.3791	1.3791
42	1.3640	1.3640
43	1.3524	1.3524
44	1.3494	1.3494
45	1.2687	1.2687
46	1.2541	1.2541
47	1.2379	1.2379
48	1.1959	1.1959
49	1.1248	1.1248
50	1.0994	1.0994

51	1.0907	1.0907
52	1.0631	1.0631
53	1.0103	1.0103
54	0.9561	0.9561

Stream Protection Duration

POC #3

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.8065	1099	1099	100	Pass
0.8222	1026	1026	100	Pass
0.8379	958	958	100	Pass
0.8536	888	888	100	Pass
0.8694	830	830	100	Pass
0.8851	768	768	100	Pass
0.9008	715	715	100	Pass
0.9165	658	658	100	Pass
0.9323	607	607	100	Pass
0.9480	564	564	100	Pass
0.9637	528	528	100	Pass
0.9794	493	493	100	Pass
0.9951	461	461	100	Pass
1.0109	425	425	100	Pass
1.0266	395	395	100	Pass
1.0423	368	368	100	Pass
1.0580	344	344	100	Pass
1.0737	320	320	100	Pass
1.0895	299	299	100	Pass
1.1052	285	285	100	Pass
1.1209	269	269	100	Pass
1.1366	256	256	100	Pass
1.1523	238	238	100	Pass
1.1681	227	227	100	Pass
1.1838	217	217	100	Pass
1.1995	201	201	100	Pass
1.2152	194	194	100	Pass
1.2309	185	185	100	Pass
1.2467	174	174	100	Pass
1.2624	166	166	100	Pass
1.2781	159	159	100	Pass
1.2938	151	151	100	Pass
1.3095	142	142	100	Pass
1.3253	135	135	100	Pass
1.3410	127	127	100	Pass
1.3567	116	116	100	Pass
1.3724	108	108	100	Pass
1.3881	100	100	100	Pass
1.4039	98	98	100	Pass
1.4196	93	93	100	Pass
1.4353	91	91	100	Pass
1.4510	89	89	100	Pass
1.4667	81	81	100	Pass
1.4825	77	77	100	Pass

1.4982	73	73	100	Pass
1.5139	70	70	100	Pass
1.5296	64	64	100	Pass
1.5453	63	63	100	Pass
1.5611	60	60	100	Pass
1.5768	57	57	100	Pass
1.5925	53	53	100	Pass
1.6082	51	51	100	Pass
1.6239	46	46	100	Pass
1.6397	43	43	100	Pass
1.6554	43	43	100	Pass
1.6711	42	42	100	Pass
1.6868	40	40	100	Pass
1.7025	38	38	100	Pass
1.7183	34	34	100	Pass
1.7340	34	34	100	Pass
1.7497	32	32	100	Pass
1.7654	28	28	100	Pass
1.7812	26	26	100	Pass
1.7969	24	24	100	Pass
1.8126	23	23	100	Pass
1.8283	23	23	100	Pass
1.8440	23	23	100	Pass
1.8598	21	21	100	Pass
1.8755	18	18	100	Pass
1.8912	18	18	100	Pass
1.9069	17	17	100	Pass
1.9226	14	14	100	Pass
1.9384	13	13	100	Pass
1.9541	12	12	100	Pass
1.9698	11	11	100	Pass
1.9855	11	11	100	Pass
2.0012	11	11	100	Pass
2.0170	9	9	100	Pass
2.0327	9	9	100	Pass
2.0484	6	6	100	Pass
2.0641	6	6	100	Pass
2.0798	6	6	100	Pass
2.0956	6	6	100	Pass
2.1113	6	6	100	Pass
2.1270	5	5	100	Pass
2.1427	4	4	100	Pass
2.1584	3	3	100	Pass
2.1742	3	3	100	Pass
2.1899	3	3	100	Pass
2.2056	3	3	100	Pass
2.2213	2	2	100	Pass
2.2370	2	2	100	Pass
2.2528	2	2	100	Pass
2.2685	1	1	100	Pass
2.2842	1	1	100	Pass
2.2999	1	1	100	Pass
2.3156	1	1	100	Pass
2.3314	1	1	100	Pass
2.3471	1	1	100	Pass
2.3628	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #3
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 3

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	100.0100	100.0100	100.0	Pass
Feb	76.5375	76.5375	100.0	Pass
Mar	68.2076	68.2076	100.0	Pass
Apr	38.4881	38.4881	100.0	Pass
May	21.1797	21.1797	100.0	Pass
Jun	14.2037	14.2037	100.0	Pass
Jul	7.0820	7.0820	100.0	Pass
Aug	10.5690	10.5690	100.0	Pass
Sep	23.6679	23.6679	100.0	Pass
Oct	56.9539	56.9539	100.0	Pass
Nov	95.3829	95.3829	100.0	Pass
Dec	96.4268	96.4268	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	3.2120	3.2120	100.0	Pass
2	2.5047	2.5047	100.0	Pass
3	3.2307	3.2307	100.0	Pass
4	3.8201	3.8201	100.0	Pass
5	2.7204	2.7204	100.0	Pass
6	4.1821	4.1821	100.0	Pass
7	3.1741	3.1741	100.0	Pass
8	3.2055	3.2055	100.0	Pass
9	3.4453	3.4453	100.0	Pass
10	3.3234	3.3234	100.0	Pass
11	4.0946	4.0946	100.0	Pass
12	3.1638	3.1638	100.0	Pass
13	4.0490	4.0490	100.0	Pass
14	4.0145	4.0145	100.0	Pass
15	3.6447	3.6447	100.0	Pass
16	2.9523	2.9523	100.0	Pass
17	2.8427	2.8427	100.0	Pass
18	2.5116	2.5116	100.0	Pass
19	2.5298	2.5298	100.0	Pass
20	1.6296	1.6296	100.0	Pass
21	3.2858	3.2858	100.0	Pass
22	3.9196	3.9196	100.0	Pass
23	4.3602	4.3602	100.0	Pass
24	2.9060	2.9060	100.0	Pass
25	2.4685	2.4685	100.0	Pass
26	2.2304	2.2304	100.0	Pass
27	2.8841	2.8841	100.0	Pass
28	3.6761	3.6761	100.0	Pass
29	2.7607	2.7607	100.0	Pass

30	3.3135	3.3135	100.0	Pass
31	1.9305	1.9305	100.0	Pass
Feb1	2.2451	2.2451	100.0	Pass
2	2.0639	2.0639	100.0	Pass
3	1.8546	1.8546	100.0	Pass
4	1.7172	1.7172	100.0	Pass
5	3.2425	3.2425	100.0	Pass
6	1.5624	1.5624	100.0	Pass
7	2.3610	2.3610	100.0	Pass
8	1.7694	1.7694	100.0	Pass
9	2.1695	2.1695	100.0	Pass
10	2.8999	2.8999	100.0	Pass
11	3.7963	3.7963	100.0	Pass
12	2.9221	2.9221	100.0	Pass
13	3.1652	3.1652	100.0	Pass
14	4.4856	4.4856	100.0	Pass
15	3.1764	3.1764	100.0	Pass
16	4.2398	4.2398	100.0	Pass
17	3.6909	3.6909	100.0	Pass
18	2.8613	2.8613	100.0	Pass
19	2.5005	2.5005	100.0	Pass
20	2.4257	2.4257	100.0	Pass
21	1.9904	1.9904	100.0	Pass
22	2.9658	2.9658	100.0	Pass
23	2.8037	2.8037	100.0	Pass
24	3.0891	3.0891	100.0	Pass
25	2.7444	2.7444	100.0	Pass
26	2.6846	2.6846	100.0	Pass
27	2.3565	2.3565	100.0	Pass
28	2.9920	2.9920	100.0	Pass
29	2.2813	2.2813	100.0	Pass
Mar1	2.2606	2.2606	100.0	Pass
2	1.8365	1.8365	100.0	Pass
3	2.6396	2.6396	100.0	Pass
4	2.7538	2.7538	100.0	Pass
5	2.1404	2.1404	100.0	Pass
6	2.7242	2.7242	100.0	Pass
7	2.6990	2.6990	100.0	Pass
8	2.5884	2.5884	100.0	Pass
9	2.5983	2.5983	100.0	Pass
10	2.2414	2.2414	100.0	Pass
11	2.4506	2.4506	100.0	Pass
12	2.1711	2.1711	100.0	Pass
13	2.6491	2.6491	100.0	Pass
14	2.0745	2.0745	100.0	Pass
15	1.6874	1.6874	100.0	Pass
16	1.6415	1.6415	100.0	Pass
17	2.2418	2.2418	100.0	Pass
18	1.3443	1.3443	100.0	Pass
19	2.0748	2.0748	100.0	Pass
20	1.6503	1.6503	100.0	Pass
21	2.8342	2.8342	100.0	Pass
22	3.1659	3.1659	100.0	Pass
23	2.5555	2.5555	100.0	Pass
24	1.5987	1.5987	100.0	Pass
25	2.5692	2.5692	100.0	Pass
26	1.8190	1.8190	100.0	Pass

27	1.7762	1.7762	100.0	Pass
28	1.9792	1.9792	100.0	Pass
29	1.8236	1.8236	100.0	Pass
30	1.3447	1.3447	100.0	Pass
31	1.0894	1.0894	100.0	Pass
Apr1	1.1792	1.1792	100.0	Pass
2	1.3379	1.3379	100.0	Pass
3	1.8778	1.8778	100.0	Pass
4	1.6660	1.6660	100.0	Pass
5	1.7754	1.7754	100.0	Pass
6	0.9309	0.9309	100.0	Pass
7	1.6192	1.6192	100.0	Pass
8	1.6050	1.6050	100.0	Pass
9	1.4389	1.4389	100.0	Pass
10	1.3993	1.3993	100.0	Pass
11	1.9809	1.9809	100.0	Pass
12	1.6605	1.6605	100.0	Pass
13	1.7498	1.7498	100.0	Pass
14	1.4730	1.4730	100.0	Pass
15	1.5731	1.5731	100.0	Pass
16	0.8549	0.8549	100.0	Pass
17	1.2242	1.2242	100.0	Pass
18	1.4135	1.4135	100.0	Pass
19	0.7260	0.7260	100.0	Pass
20	0.7297	0.7297	100.0	Pass
21	1.2649	1.2649	100.0	Pass
22	1.0508	1.0508	100.0	Pass
23	0.9038	0.9038	100.0	Pass
24	0.7232	0.7232	100.0	Pass
25	0.8922	0.8922	100.0	Pass
26	1.4872	1.4872	100.0	Pass
27	1.1367	1.1367	100.0	Pass
28	1.1788	1.1788	100.0	Pass
29	0.5497	0.5497	100.0	Pass
30	0.7829	0.7829	100.0	Pass
May1	1.2371	1.2371	100.0	Pass
2	0.8638	0.8638	100.0	Pass
3	0.9560	0.9560	100.0	Pass
4	0.7290	0.7290	100.0	Pass
5	0.7108	0.7108	100.0	Pass
6	0.6049	0.6049	100.0	Pass
7	0.8105	0.8105	100.0	Pass
8	0.4839	0.4839	100.0	Pass
9	0.7023	0.7023	100.0	Pass
10	0.5658	0.5658	100.0	Pass
11	0.5351	0.5351	100.0	Pass
12	0.7583	0.7583	100.0	Pass
13	0.8135	0.8135	100.0	Pass
14	0.7926	0.7926	100.0	Pass
15	0.5128	0.5128	100.0	Pass
16	0.6955	0.6955	100.0	Pass
17	0.5553	0.5553	100.0	Pass
18	0.9317	0.9317	100.0	Pass
19	0.4737	0.4737	100.0	Pass
20	0.4750	0.4750	100.0	Pass
21	0.4907	0.4907	100.0	Pass
22	0.5984	0.5984	100.0	Pass

23	0.5181	0.5181	100.0	Pass
24	0.5464	0.5464	100.0	Pass
25	0.4527	0.4527	100.0	Pass
26	0.8053	0.8053	100.0	Pass
27	0.6181	0.6181	100.0	Pass
28	0.6716	0.6716	100.0	Pass
29	0.9122	0.9122	100.0	Pass
30	0.5785	0.5785	100.0	Pass
31	0.6337	0.6337	100.0	Pass
Jun1	0.4700	0.4700	100.0	Pass
2	0.8119	0.8119	100.0	Pass
3	0.7574	0.7574	100.0	Pass
4	0.5509	0.5509	100.0	Pass
5	0.9205	0.9205	100.0	Pass
6	0.3238	0.3238	100.0	Pass
7	0.5187	0.5187	100.0	Pass
8	0.7535	0.7535	100.0	Pass
9	0.5614	0.5614	100.0	Pass
10	0.5419	0.5419	100.0	Pass
11	0.3860	0.3860	100.0	Pass
12	0.4864	0.4864	100.0	Pass
13	0.7693	0.7693	100.0	Pass
14	0.2999	0.2999	100.0	Pass
15	0.6267	0.6267	100.0	Pass
16	0.2589	0.2589	100.0	Pass
17	0.3795	0.3795	100.0	Pass
18	0.2501	0.2501	100.0	Pass
19	0.3165	0.3165	100.0	Pass
20	0.3550	0.3550	100.0	Pass
21	0.3332	0.3332	100.0	Pass
22	0.1848	0.1848	100.0	Pass
23	0.9833	0.9833	100.0	Pass
24	0.2325	0.2325	100.0	Pass
25	0.4300	0.4300	100.0	Pass
26	0.2584	0.2584	100.0	Pass
27	0.2401	0.2401	100.0	Pass
28	0.2480	0.2480	100.0	Pass
29	0.3231	0.3231	100.0	Pass
30	0.6821	0.6821	100.0	Pass
Jul1	0.1644	0.1644	100.0	Pass
2	0.1482	0.1482	100.0	Pass
3	0.1676	0.1676	100.0	Pass
4	0.4106	0.4106	100.0	Pass
5	0.2987	0.2987	100.0	Pass
6	0.2281	0.2281	100.0	Pass
7	0.4304	0.4304	100.0	Pass
8	0.2371	0.2371	100.0	Pass
9	0.5102	0.5102	100.0	Pass
10	0.3251	0.3251	100.0	Pass
11	0.6517	0.6517	100.0	Pass
12	0.3004	0.3004	100.0	Pass
13	0.2376	0.2376	100.0	Pass
14	0.3784	0.3784	100.0	Pass
15	0.1538	0.1538	100.0	Pass
16	0.0968	0.0968	100.0	Pass
17	0.3287	0.3287	100.0	Pass
18	0.1039	0.1039	100.0	Pass

19	0.1431	0.1431	100.0	Pass
20	0.2455	0.2455	100.0	Pass
21	0.1898	0.1898	100.0	Pass
22	0.0116	0.0116	100.0	Pass
23	0.0554	0.0554	100.0	Pass
24	0.0638	0.0638	100.0	Pass
25	0.1474	0.1474	100.0	Pass
26	0.0652	0.0652	100.0	Pass
27	0.0921	0.0921	100.0	Pass
28	0.0780	0.0780	100.0	Pass
29	0.0500	0.0500	100.0	Pass
30	0.0872	0.0872	100.0	Pass
31	0.0971	0.0971	100.0	Pass
Aug1	0.3951	0.3951	100.0	Pass
2	0.1351	0.1351	100.0	Pass
3	0.0543	0.0543	100.0	Pass
4	0.0528	0.0528	100.0	Pass
5	0.4466	0.4466	100.0	Pass
6	0.3018	0.3018	100.0	Pass
7	0.1065	0.1065	100.0	Pass
8	0.1109	0.1109	100.0	Pass
9	0.0098	0.0098	100.0	Pass
10	0.0614	0.0614	100.0	Pass
11	0.2880	0.2880	100.0	Pass
12	0.2513	0.2513	100.0	Pass
13	0.3097	0.3097	100.0	Pass
14	0.1837	0.1837	100.0	Pass
15	0.1651	0.1651	100.0	Pass
16	0.1502	0.1502	100.0	Pass
17	0.2931	0.2931	100.0	Pass
18	0.5493	0.5493	100.0	Pass
19	0.1479	0.1479	100.0	Pass
20	0.4297	0.4297	100.0	Pass
21	0.3857	0.3857	100.0	Pass
22	0.7576	0.7576	100.0	Pass
23	0.6949	0.6949	100.0	Pass
24	0.5786	0.5786	100.0	Pass
25	0.2313	0.2313	100.0	Pass
26	0.7233	0.7233	100.0	Pass
27	0.7295	0.7295	100.0	Pass
28	0.7190	0.7190	100.0	Pass
29	0.4609	0.4609	100.0	Pass
30	0.7494	0.7494	100.0	Pass
31	1.1749	1.1749	100.0	Pass
Sep1	0.4306	0.4306	100.0	Pass
2	0.4502	0.4502	100.0	Pass
3	0.5010	0.5010	100.0	Pass
4	0.6374	0.6374	100.0	Pass
5	0.5389	0.5389	100.0	Pass
6	0.3748	0.3748	100.0	Pass
7	0.7347	0.7347	100.0	Pass
8	0.4592	0.4592	100.0	Pass
9	1.1995	1.1995	100.0	Pass
10	0.2654	0.2654	100.0	Pass
11	0.2366	0.2366	100.0	Pass
12	0.6447	0.6447	100.0	Pass
13	1.1733	1.1733	100.0	Pass

14	0.7351	0.7351	100.0	Pass
15	1.1328	1.1328	100.0	Pass
16	1.1728	1.1728	100.0	Pass
17	1.2909	1.2909	100.0	Pass
18	1.1538	1.1538	100.0	Pass
19	1.2268	1.2268	100.0	Pass
20	0.8729	0.8729	100.0	Pass
21	1.2231	1.2231	100.0	Pass
22	0.9731	0.9731	100.0	Pass
23	0.7805	0.7805	100.0	Pass
24	0.5568	0.5568	100.0	Pass
25	0.6076	0.6076	100.0	Pass
26	0.6090	0.6090	100.0	Pass
27	0.8250	0.8250	100.0	Pass
28	0.7264	0.7264	100.0	Pass
29	0.9636	0.9636	100.0	Pass
30	0.6789	0.6789	100.0	Pass
Oct1	0.4821	0.4821	100.0	Pass
2	1.2474	1.2474	100.0	Pass
3	1.1014	1.1014	100.0	Pass
4	1.3439	1.3439	100.0	Pass
5	1.4246	1.4246	100.0	Pass
6	1.5682	1.5682	100.0	Pass
7	2.0048	2.0048	100.0	Pass
8	1.6075	1.6075	100.0	Pass
9	1.2393	1.2393	100.0	Pass
10	1.0141	1.0141	100.0	Pass
11	1.9744	1.9744	100.0	Pass
12	1.2988	1.2988	100.0	Pass
13	1.8418	1.8418	100.0	Pass
14	1.0107	1.0107	100.0	Pass
15	1.2287	1.2287	100.0	Pass
16	1.6435	1.6435	100.0	Pass
17	1.5019	1.5019	100.0	Pass
18	2.4212	2.4212	100.0	Pass
19	2.9640	2.9640	100.0	Pass
20	2.5424	2.5424	100.0	Pass
21	3.0751	3.0751	100.0	Pass
22	1.7481	1.7481	100.0	Pass
23	2.9896	2.9896	100.0	Pass
24	2.6010	2.6010	100.0	Pass
25	2.3116	2.3116	100.0	Pass
26	2.8320	2.8320	100.0	Pass
27	2.3723	2.3723	100.0	Pass
28	2.2130	2.2130	100.0	Pass
29	1.8588	1.8588	100.0	Pass
30	2.8210	2.8210	100.0	Pass
31	2.3305	2.3305	100.0	Pass
Nov1	2.9615	2.9615	100.0	Pass
2	3.6177	3.6177	100.0	Pass
3	2.7361	2.7361	100.0	Pass
4	2.8065	2.8065	100.0	Pass
5	3.1101	3.1101	100.0	Pass
6	2.5584	2.5584	100.0	Pass
7	2.3228	2.3228	100.0	Pass
8	3.0624	3.0624	100.0	Pass
9	3.6102	3.6102	100.0	Pass

10	3.0546	3.0546	100.0	Pass
11	3.4325	3.4325	100.0	Pass
12	3.1717	3.1717	100.0	Pass
13	2.3166	2.3166	100.0	Pass
14	2.7870	2.7870	100.0	Pass
15	3.1276	3.1276	100.0	Pass
16	3.2791	3.2791	100.0	Pass
17	2.9668	2.9668	100.0	Pass
18	4.4228	4.4228	100.0	Pass
19	3.8915	3.8915	100.0	Pass
20	2.5066	2.5066	100.0	Pass
21	4.0927	4.0927	100.0	Pass
22	4.8768	4.8768	100.0	Pass
23	3.6066	3.6066	100.0	Pass
24	4.1796	4.1796	100.0	Pass
25	2.6697	2.6697	100.0	Pass
26	2.1657	2.1657	100.0	Pass
27	2.7292	2.7292	100.0	Pass
28	2.6042	2.6042	100.0	Pass
29	4.3923	4.3923	100.0	Pass
30	3.4193	3.4193	100.0	Pass
Dec1	3.8111	3.8111	100.0	Pass
2	3.6535	3.6535	100.0	Pass
3	2.2869	2.2869	100.0	Pass
4	2.6034	2.6034	100.0	Pass
5	2.2057	2.2057	100.0	Pass
6	1.9334	1.9334	100.0	Pass
7	2.8541	2.8541	100.0	Pass
8	3.5891	3.5891	100.0	Pass
9	3.5098	3.5098	100.0	Pass
10	3.7816	3.7816	100.0	Pass
11	2.7144	2.7144	100.0	Pass
12	2.9823	2.9823	100.0	Pass
13	4.5187	4.5187	100.0	Pass
14	3.0148	3.0148	100.0	Pass
15	4.0631	4.0631	100.0	Pass
16	2.6378	2.6378	100.0	Pass
17	3.2395	3.2395	100.0	Pass
18	2.6364	2.6364	100.0	Pass
19	3.1565	3.1565	100.0	Pass
20	3.0517	3.0517	100.0	Pass
21	3.3611	3.3611	100.0	Pass
22	3.3142	3.3142	100.0	Pass
23	3.6199	3.6199	100.0	Pass
24	4.0336	4.0336	100.0	Pass
25	3.4229	3.4229	100.0	Pass
26	3.1164	3.1164	100.0	Pass
27	2.0558	2.0558	100.0	Pass
28	3.3913	3.3913	100.0	Pass
29	2.1545	2.1545	100.0	Pass
30	2.3008	2.3008	100.0	Pass
31	3.9655	3.9655	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #4
Total Pervious Area:0
Total Impervious Area:0.162

Mitigated Landuse Totals for POC #4
Total Pervious Area:0
Total Impervious Area:0.162

Flow Frequency Return Periods for Predeveloped. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.118575
5 year	0.139655
10 year	0.151279
25 year	0.164065
50 year	0.17251
100 year	0.180213

Flow Frequency Return Periods for Mitigated. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.118575
5 year	0.139655
10 year	0.151279
25 year	0.164065
50 year	0.17251
100 year	0.180213

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #4

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.122	0.122
1957	0.155	0.155
1958	0.122	0.122
1959	0.117	0.117
1960	0.121	0.121
1961	0.104	0.104
1962	0.159	0.159
1963	0.147	0.147
1964	0.130	0.130
1965	0.128	0.128
1966	0.124	0.124
1967	0.082	0.082
1968	0.121	0.121
1969	0.113	0.113
1970	0.113	0.113
1971	0.164	0.164
1972	0.137	0.137
1973	0.132	0.132
1974	0.123	0.123
1975	0.111	0.111
1976	0.135	0.135
1977	0.100	0.100

1978	0.173	0.173
1979	0.108	0.108
1980	0.101	0.101
1981	0.129	0.129
1982	0.148	0.148
1983	0.117	0.117
1984	0.107	0.107
1985	0.086	0.086
1986	0.130	0.130
1987	0.091	0.091
1988	0.137	0.137
1989	0.117	0.117
1990	0.148	0.148
1991	0.104	0.104
1992	0.081	0.081
1993	0.090	0.090
1994	0.110	0.110
1995	0.114	0.114
1996	0.137	0.137
1997	0.129	0.129
1998	0.084	0.084
1999	0.102	0.102
2000	0.097	0.097
2001	0.095	0.095
2002	0.151	0.151
2003	0.155	0.155
2004	0.146	0.146
2005	0.116	0.116
2006	0.118	0.118
2007	0.138	0.138
2008	0.076	0.076
2009	0.072	0.072

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	0.1729	0.1729
2	0.1635	0.1635
3	0.1593	0.1593
4	0.1551	0.1551
5	0.1549	0.1549
6	0.1506	0.1506
7	0.1483	0.1483
8	0.1477	0.1477
9	0.1473	0.1473
10	0.1457	0.1457
11	0.1382	0.1382
12	0.1370	0.1370
13	0.1369	0.1369
14	0.1366	0.1366
15	0.1349	0.1349
16	0.1322	0.1322
17	0.1305	0.1305
18	0.1295	0.1295
19	0.1290	0.1290
20	0.1288	0.1288

21	0.1282	0.1282
22	0.1239	0.1239
23	0.1232	0.1232
24	0.1218	0.1218
25	0.1216	0.1216
26	0.1209	0.1209
27	0.1208	0.1208
28	0.1183	0.1183
29	0.1169	0.1169
30	0.1168	0.1168
31	0.1167	0.1167
32	0.1165	0.1165
33	0.1136	0.1136
34	0.1135	0.1135
35	0.1125	0.1125
36	0.1110	0.1110
37	0.1101	0.1101
38	0.1078	0.1078
39	0.1069	0.1069
40	0.1045	0.1045
41	0.1040	0.1040
42	0.1021	0.1021
43	0.1007	0.1007
44	0.0996	0.0996
45	0.0968	0.0968
46	0.0949	0.0949
47	0.0909	0.0909
48	0.0904	0.0904
49	0.0856	0.0856
50	0.0845	0.0845
51	0.0818	0.0818
52	0.0810	0.0810
53	0.0760	0.0760
54	0.0724	0.0724

Stream Protection Duration

POC #4

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0593	1214	1214	100	Pass
0.0604	1128	1128	100	Pass
0.0616	1060	1060	100	Pass
0.0627	985	985	100	Pass
0.0639	925	925	100	Pass
0.0650	862	862	100	Pass
0.0661	793	793	100	Pass
0.0673	734	734	100	Pass
0.0684	681	681	100	Pass
0.0696	630	630	100	Pass
0.0707	578	578	100	Pass
0.0719	538	538	100	Pass
0.0730	499	499	100	Pass
0.0742	467	467	100	Pass

0.0753	424	424	100	Pass
0.0764	394	394	100	Pass
0.0776	367	367	100	Pass
0.0787	346	346	100	Pass
0.0799	326	326	100	Pass
0.0810	305	305	100	Pass
0.0822	288	288	100	Pass
0.0833	272	272	100	Pass
0.0844	255	255	100	Pass
0.0856	236	236	100	Pass
0.0867	226	226	100	Pass
0.0879	217	217	100	Pass
0.0890	210	210	100	Pass
0.0902	196	196	100	Pass
0.0913	189	189	100	Pass
0.0925	178	178	100	Pass
0.0936	169	169	100	Pass
0.0947	161	161	100	Pass
0.0959	154	154	100	Pass
0.0970	141	141	100	Pass
0.0982	131	131	100	Pass
0.0993	123	123	100	Pass
0.1005	115	115	100	Pass
0.1016	110	110	100	Pass
0.1027	106	106	100	Pass
0.1039	102	102	100	Pass
0.1050	96	96	100	Pass
0.1062	94	94	100	Pass
0.1073	86	86	100	Pass
0.1085	80	80	100	Pass
0.1096	76	76	100	Pass
0.1108	72	72	100	Pass
0.1119	68	68	100	Pass
0.1130	63	63	100	Pass
0.1142	60	60	100	Pass
0.1153	56	56	100	Pass
0.1165	56	56	100	Pass
0.1176	50	50	100	Pass
0.1188	48	48	100	Pass
0.1199	47	47	100	Pass
0.1210	45	45	100	Pass
0.1222	39	39	100	Pass
0.1233	35	35	100	Pass
0.1245	34	34	100	Pass
0.1256	34	34	100	Pass
0.1268	33	33	100	Pass
0.1279	32	32	100	Pass
0.1291	30	30	100	Pass
0.1302	27	27	100	Pass
0.1313	26	26	100	Pass
0.1325	24	24	100	Pass
0.1336	24	24	100	Pass
0.1348	24	24	100	Pass
0.1359	23	23	100	Pass
0.1371	18	18	100	Pass
0.1382	17	17	100	Pass
0.1393	15	15	100	Pass

0.1405	14	14	100	Pass
0.1416	13	13	100	Pass
0.1428	12	12	100	Pass
0.1439	12	12	100	Pass
0.1451	12	12	100	Pass
0.1462	11	11	100	Pass
0.1473	9	9	100	Pass
0.1485	7	7	100	Pass
0.1496	7	7	100	Pass
0.1508	6	6	100	Pass
0.1519	6	6	100	Pass
0.1531	6	6	100	Pass
0.1542	5	5	100	Pass
0.1554	3	3	100	Pass
0.1565	3	3	100	Pass
0.1576	3	3	100	Pass
0.1588	3	3	100	Pass
0.1599	2	2	100	Pass
0.1611	2	2	100	Pass
0.1622	2	2	100	Pass
0.1634	2	2	100	Pass
0.1645	1	1	100	Pass
0.1656	1	1	100	Pass
0.1668	1	1	100	Pass
0.1679	1	1	100	Pass
0.1691	1	1	100	Pass
0.1702	1	1	100	Pass
0.1714	1	1	100	Pass
0.1725	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 4

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	7.1415	7.1415	100.0	Pass
Feb	5.4525	5.4525	100.0	Pass
Mar	4.8666	4.8666	100.0	Pass
Apr	2.7688	2.7688	100.0	Pass
May	1.5612	1.5612	100.0	Pass
Jun	1.0593	1.0593	100.0	Pass
Jul	0.5349	0.5349	100.0	Pass
Aug	0.8046	0.8046	100.0	Pass
Sep	1.7688	1.7688	100.0	Pass
Oct	4.1802	4.1802	100.0	Pass
Nov	6.8632	6.8632	100.0	Pass
Dec	6.8830	6.8830	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.2300	0.2300	100.0	Pass
2	0.1766	0.1766	100.0	Pass
3	0.2323	0.2323	100.0	Pass
4	0.2777	0.2777	100.0	Pass
5	0.1915	0.1915	100.0	Pass
6	0.3046	0.3046	100.0	Pass
7	0.2243	0.2243	100.0	Pass
8	0.2282	0.2282	100.0	Pass
9	0.2480	0.2480	100.0	Pass
10	0.2366	0.2366	100.0	Pass
11	0.2945	0.2945	100.0	Pass
12	0.2231	0.2231	100.0	Pass
13	0.2912	0.2912	100.0	Pass
14	0.2870	0.2870	100.0	Pass
15	0.2587	0.2587	100.0	Pass
16	0.2055	0.2055	100.0	Pass
17	0.1993	0.1993	100.0	Pass
18	0.1759	0.1759	100.0	Pass
19	0.1795	0.1795	100.0	Pass
20	0.1117	0.1117	100.0	Pass
21	0.2427	0.2427	100.0	Pass
22	0.2845	0.2845	100.0	Pass
23	0.3141	0.3141	100.0	Pass
24	0.2025	0.2025	100.0	Pass
25	0.1717	0.1717	100.0	Pass
26	0.1553	0.1553	100.0	Pass
27	0.2075	0.2075	100.0	Pass
28	0.2660	0.2660	100.0	Pass
29	0.1948	0.1948	100.0	Pass
30	0.2382	0.2382	100.0	Pass
31	0.1325	0.1325	100.0	Pass
Feb1	0.1587	0.1587	100.0	Pass
2	0.1470	0.1470	100.0	Pass
3	0.1310	0.1310	100.0	Pass
4	0.1214	0.1214	100.0	Pass
5	0.2376	0.2376	100.0	Pass
6	0.1067	0.1067	100.0	Pass
7	0.1705	0.1705	100.0	Pass
8	0.1248	0.1248	100.0	Pass
9	0.1572	0.1572	100.0	Pass
10	0.2119	0.2119	100.0	Pass
11	0.2758	0.2758	100.0	Pass
12	0.2065	0.2065	100.0	Pass
13	0.2272	0.2272	100.0	Pass
14	0.3273	0.3273	100.0	Pass
15	0.2228	0.2228	100.0	Pass
16	0.3059	0.3059	100.0	Pass
17	0.2621	0.2621	100.0	Pass
18	0.1981	0.1981	100.0	Pass
19	0.1740	0.1740	100.0	Pass
20	0.1702	0.1702	100.0	Pass
21	0.1395	0.1395	100.0	Pass
22	0.2138	0.2138	100.0	Pass
23	0.2006	0.2006	100.0	Pass
24	0.2215	0.2215	100.0	Pass
25	0.1944	0.1944	100.0	Pass

26	0.1896	0.1896	100.0	Pass
27	0.1657	0.1657	100.0	Pass
28	0.2129	0.2129	100.0	Pass
29	0.1615	0.1615	100.0	Pass
Mar1	0.1608	0.1608	100.0	Pass
2	0.1290	0.1290	100.0	Pass
3	0.1909	0.1909	100.0	Pass
4	0.1982	0.1982	100.0	Pass
5	0.1518	0.1518	100.0	Pass
6	0.1949	0.1949	100.0	Pass
7	0.1947	0.1947	100.0	Pass
8	0.1849	0.1849	100.0	Pass
9	0.1855	0.1855	100.0	Pass
10	0.1583	0.1583	100.0	Pass
11	0.1747	0.1747	100.0	Pass
12	0.1543	0.1543	100.0	Pass
13	0.1903	0.1903	100.0	Pass
14	0.1463	0.1463	100.0	Pass
15	0.1183	0.1183	100.0	Pass
16	0.1165	0.1165	100.0	Pass
17	0.1611	0.1611	100.0	Pass
18	0.0935	0.0935	100.0	Pass
19	0.1505	0.1505	100.0	Pass
20	0.1177	0.1177	100.0	Pass
21	0.2078	0.2078	100.0	Pass
22	0.2310	0.2310	100.0	Pass
23	0.1813	0.1813	100.0	Pass
24	0.1090	0.1090	100.0	Pass
25	0.1858	0.1858	100.0	Pass
26	0.1273	0.1273	100.0	Pass
27	0.1266	0.1266	100.0	Pass
28	0.1410	0.1410	100.0	Pass
29	0.1302	0.1302	100.0	Pass
30	0.0939	0.0939	100.0	Pass
31	0.0761	0.0761	100.0	Pass
Apr1	0.0841	0.0841	100.0	Pass
2	0.0965	0.0965	100.0	Pass
3	0.1384	0.1384	100.0	Pass
4	0.1203	0.1203	100.0	Pass
5	0.1268	0.1268	100.0	Pass
6	0.0637	0.0637	100.0	Pass
7	0.1183	0.1183	100.0	Pass
8	0.1155	0.1155	100.0	Pass
9	0.1040	0.1040	100.0	Pass
10	0.0998	0.0998	100.0	Pass
11	0.1459	0.1459	100.0	Pass
12	0.1193	0.1193	100.0	Pass
13	0.1267	0.1267	100.0	Pass
14	0.1050	0.1050	100.0	Pass
15	0.1124	0.1124	100.0	Pass
16	0.0582	0.0582	100.0	Pass
17	0.0885	0.0885	100.0	Pass
18	0.1029	0.1029	100.0	Pass
19	0.0496	0.0496	100.0	Pass
20	0.0519	0.0519	100.0	Pass
21	0.0935	0.0935	100.0	Pass
22	0.0766	0.0766	100.0	Pass

23	0.0648	0.0648	100.0	Pass
24	0.0515	0.0515	100.0	Pass
25	0.0654	0.0654	100.0	Pass
26	0.1092	0.1092	100.0	Pass
27	0.0819	0.0819	100.0	Pass
28	0.0850	0.0850	100.0	Pass
29	0.0373	0.0373	100.0	Pass
30	0.0571	0.0571	100.0	Pass
May1	0.0923	0.0923	100.0	Pass
2	0.0622	0.0622	100.0	Pass
3	0.0702	0.0702	100.0	Pass
4	0.0523	0.0523	100.0	Pass
5	0.0516	0.0516	100.0	Pass
6	0.0440	0.0440	100.0	Pass
7	0.0599	0.0599	100.0	Pass
8	0.0346	0.0346	100.0	Pass
9	0.0521	0.0521	100.0	Pass
10	0.0416	0.0416	100.0	Pass
11	0.0395	0.0395	100.0	Pass
12	0.0564	0.0564	100.0	Pass
13	0.0605	0.0605	100.0	Pass
14	0.0589	0.0589	100.0	Pass
15	0.0366	0.0366	100.0	Pass
16	0.0517	0.0517	100.0	Pass
17	0.0405	0.0405	100.0	Pass
18	0.0704	0.0704	100.0	Pass
19	0.0342	0.0342	100.0	Pass
20	0.0352	0.0352	100.0	Pass
21	0.0364	0.0364	100.0	Pass
22	0.0451	0.0451	100.0	Pass
23	0.0384	0.0384	100.0	Pass
24	0.0405	0.0405	100.0	Pass
25	0.0331	0.0331	100.0	Pass
26	0.0606	0.0606	100.0	Pass
27	0.0456	0.0456	100.0	Pass
28	0.0500	0.0500	100.0	Pass
29	0.0680	0.0680	100.0	Pass
30	0.0421	0.0421	100.0	Pass
31	0.0464	0.0464	100.0	Pass
Jun1	0.0337	0.0337	100.0	Pass
2	0.0614	0.0614	100.0	Pass
3	0.0569	0.0569	100.0	Pass
4	0.0406	0.0406	100.0	Pass
5	0.0694	0.0694	100.0	Pass
6	0.0225	0.0225	100.0	Pass
7	0.0381	0.0381	100.0	Pass
8	0.0564	0.0564	100.0	Pass
9	0.0415	0.0415	100.0	Pass
10	0.0405	0.0405	100.0	Pass
11	0.0284	0.0284	100.0	Pass
12	0.0367	0.0367	100.0	Pass
13	0.0583	0.0583	100.0	Pass
14	0.0214	0.0214	100.0	Pass
15	0.0471	0.0471	100.0	Pass
16	0.0183	0.0183	100.0	Pass
17	0.0282	0.0282	100.0	Pass
18	0.0179	0.0179	100.0	Pass

19	0.0238	0.0238	100.0	Pass
20	0.0271	0.0271	100.0	Pass
21	0.0250	0.0250	100.0	Pass
22	0.0135	0.0135	100.0	Pass
23	0.0761	0.0761	100.0	Pass
24	0.0161	0.0161	100.0	Pass
25	0.0324	0.0324	100.0	Pass
26	0.0193	0.0193	100.0	Pass
27	0.0183	0.0183	100.0	Pass
28	0.0190	0.0190	100.0	Pass
29	0.0249	0.0249	100.0	Pass
30	0.0523	0.0523	100.0	Pass
Jul11	0.0117	0.0117	100.0	Pass
2	0.0110	0.0110	100.0	Pass
3	0.0128	0.0128	100.0	Pass
4	0.0322	0.0322	100.0	Pass
5	0.0232	0.0232	100.0	Pass
6	0.0176	0.0176	100.0	Pass
7	0.0330	0.0330	100.0	Pass
8	0.0175	0.0175	100.0	Pass
9	0.0392	0.0392	100.0	Pass
10	0.0244	0.0244	100.0	Pass
11	0.0490	0.0490	100.0	Pass
12	0.0207	0.0207	100.0	Pass
13	0.0170	0.0170	100.0	Pass
14	0.0285	0.0285	100.0	Pass
15	0.0112	0.0112	100.0	Pass
16	0.0070	0.0070	100.0	Pass
17	0.0252	0.0252	100.0	Pass
18	0.0073	0.0073	100.0	Pass
19	0.0107	0.0107	100.0	Pass
20	0.0189	0.0189	100.0	Pass
21	0.0142	0.0142	100.0	Pass
22	0.0004	0.0004	100.0	Pass
23	0.0041	0.0041	100.0	Pass
24	0.0049	0.0049	100.0	Pass
25	0.0116	0.0116	100.0	Pass
26	0.0051	0.0051	100.0	Pass
27	0.0072	0.0072	100.0	Pass
28	0.0061	0.0061	100.0	Pass
29	0.0038	0.0038	100.0	Pass
30	0.0068	0.0068	100.0	Pass
31	0.0076	0.0076	100.0	Pass
Aug1	0.0310	0.0310	100.0	Pass
2	0.0101	0.0101	100.0	Pass
3	0.0038	0.0038	100.0	Pass
4	0.0039	0.0039	100.0	Pass
5	0.0348	0.0348	100.0	Pass
6	0.0231	0.0231	100.0	Pass
7	0.0078	0.0078	100.0	Pass
8	0.0084	0.0084	100.0	Pass
9	0.0006	0.0006	100.0	Pass
10	0.0047	0.0047	100.0	Pass
11	0.0226	0.0226	100.0	Pass
12	0.0196	0.0196	100.0	Pass
13	0.0240	0.0240	100.0	Pass
14	0.0138	0.0138	100.0	Pass

15	0.0123	0.0123	100.0	Pass
16	0.0114	0.0114	100.0	Pass
17	0.0229	0.0229	100.0	Pass
18	0.0430	0.0430	100.0	Pass
19	0.0108	0.0108	100.0	Pass
20	0.0334	0.0334	100.0	Pass
21	0.0295	0.0295	100.0	Pass
22	0.0584	0.0584	100.0	Pass
23	0.0526	0.0526	100.0	Pass
24	0.0423	0.0423	100.0	Pass
25	0.0160	0.0160	100.0	Pass
26	0.0554	0.0554	100.0	Pass
27	0.0552	0.0552	100.0	Pass
28	0.0539	0.0539	100.0	Pass
29	0.0342	0.0342	100.0	Pass
30	0.0574	0.0574	100.0	Pass
31	0.0893	0.0893	100.0	Pass
Sep1	0.0302	0.0302	100.0	Pass
2	0.0328	0.0328	100.0	Pass
3	0.0373	0.0373	100.0	Pass
4	0.0483	0.0483	100.0	Pass
5	0.0405	0.0405	100.0	Pass
6	0.0279	0.0279	100.0	Pass
7	0.0566	0.0566	100.0	Pass
8	0.0344	0.0344	100.0	Pass
9	0.0926	0.0926	100.0	Pass
10	0.0189	0.0189	100.0	Pass
11	0.0175	0.0175	100.0	Pass
12	0.0496	0.0496	100.0	Pass
13	0.0899	0.0899	100.0	Pass
14	0.0547	0.0547	100.0	Pass
15	0.0859	0.0859	100.0	Pass
16	0.0872	0.0872	100.0	Pass
17	0.0971	0.0971	100.0	Pass
18	0.0863	0.0863	100.0	Pass
19	0.0911	0.0911	100.0	Pass
20	0.0630	0.0630	100.0	Pass
21	0.0898	0.0898	100.0	Pass
22	0.0710	0.0710	100.0	Pass
23	0.0570	0.0570	100.0	Pass
24	0.0405	0.0405	100.0	Pass
25	0.0454	0.0454	100.0	Pass
26	0.0455	0.0455	100.0	Pass
27	0.0615	0.0615	100.0	Pass
28	0.0545	0.0545	100.0	Pass
29	0.0728	0.0728	100.0	Pass
30	0.0499	0.0499	100.0	Pass
Oct1	0.0350	0.0350	100.0	Pass
2	0.0955	0.0955	100.0	Pass
3	0.0832	0.0832	100.0	Pass
4	0.1009	0.1009	100.0	Pass
5	0.1069	0.1069	100.0	Pass
6	0.1178	0.1178	100.0	Pass
7	0.1501	0.1501	100.0	Pass
8	0.1183	0.1183	100.0	Pass
9	0.0901	0.0901	100.0	Pass
10	0.0736	0.0736	100.0	Pass

11	0.1489	0.1489	100.0	Pass
12	0.0951	0.0951	100.0	Pass
13	0.1381	0.1381	100.0	Pass
14	0.0721	0.0721	100.0	Pass
15	0.0901	0.0901	100.0	Pass
16	0.1213	0.1213	100.0	Pass
17	0.1103	0.1103	100.0	Pass
18	0.1794	0.1794	100.0	Pass
19	0.2185	0.2185	100.0	Pass
20	0.1864	0.1864	100.0	Pass
21	0.2259	0.2259	100.0	Pass
22	0.1226	0.1226	100.0	Pass
23	0.2194	0.2194	100.0	Pass
24	0.1888	0.1888	100.0	Pass
25	0.1667	0.1667	100.0	Pass
26	0.2068	0.2068	100.0	Pass
27	0.1702	0.1702	100.0	Pass
28	0.1592	0.1592	100.0	Pass
29	0.1324	0.1324	100.0	Pass
30	0.2074	0.2074	100.0	Pass
31	0.1676	0.1676	100.0	Pass
Nov1	0.2151	0.2151	100.0	Pass
2	0.2666	0.2666	100.0	Pass
3	0.1946	0.1946	100.0	Pass
4	0.2027	0.2027	100.0	Pass
5	0.2249	0.2249	100.0	Pass
6	0.1820	0.1820	100.0	Pass
7	0.1654	0.1654	100.0	Pass
8	0.2237	0.2237	100.0	Pass
9	0.2632	0.2632	100.0	Pass
10	0.2195	0.2195	100.0	Pass
11	0.2482	0.2482	100.0	Pass
12	0.2291	0.2291	100.0	Pass
13	0.1620	0.1620	100.0	Pass
14	0.2009	0.2009	100.0	Pass
15	0.2262	0.2262	100.0	Pass
16	0.2376	0.2376	100.0	Pass
17	0.2128	0.2128	100.0	Pass
18	0.3225	0.3225	100.0	Pass
19	0.2793	0.2793	100.0	Pass
20	0.1740	0.1740	100.0	Pass
21	0.2964	0.2964	100.0	Pass
22	0.3567	0.3567	100.0	Pass
23	0.2552	0.2552	100.0	Pass
24	0.2998	0.2998	100.0	Pass
25	0.1843	0.1843	100.0	Pass
26	0.1495	0.1495	100.0	Pass
27	0.1960	0.1960	100.0	Pass
28	0.1868	0.1868	100.0	Pass
29	0.3218	0.3218	100.0	Pass
30	0.2435	0.2435	100.0	Pass
Dec1	0.2743	0.2743	100.0	Pass
2	0.2603	0.2603	100.0	Pass
3	0.1579	0.1579	100.0	Pass
4	0.1853	0.1853	100.0	Pass
5	0.1547	0.1547	100.0	Pass
6	0.1370	0.1370	100.0	Pass

7	0.2079	0.2079	100.0	Pass
8	0.2618	0.2618	100.0	Pass
9	0.2526	0.2526	100.0	Pass
10	0.2711	0.2711	100.0	Pass
11	0.1912	0.1912	100.0	Pass
12	0.2131	0.2131	100.0	Pass
13	0.3304	0.3304	100.0	Pass
14	0.2109	0.2109	100.0	Pass
15	0.2939	0.2939	100.0	Pass
16	0.1830	0.1830	100.0	Pass
17	0.2319	0.2319	100.0	Pass
18	0.1863	0.1863	100.0	Pass
19	0.2282	0.2282	100.0	Pass
20	0.2178	0.2178	100.0	Pass
21	0.2398	0.2398	100.0	Pass
22	0.2374	0.2374	100.0	Pass
23	0.2603	0.2603	100.0	Pass
24	0.2919	0.2919	100.0	Pass
25	0.2421	0.2421	100.0	Pass
26	0.2195	0.2195	100.0	Pass
27	0.1420	0.1420	100.0	Pass
28	0.2456	0.2456	100.0	Pass
29	0.1494	0.1494	100.0	Pass
30	0.1633	0.1633	100.0	Pass
31	0.2894	0.2894	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #5

Total Pervious Area:0
Total Impervious Area:0.456

Mitigated Landuse Totals for POC #5

Total Pervious Area:0
Total Impervious Area:0.456

Flow Frequency Return Periods for Predeveloped. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.333766
5 year	0.393103
10 year	0.425822
25 year	0.461812
50 year	0.485584
100 year	0.507267

Flow Frequency Return Periods for Mitigated. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.333766
5 year	0.393103
10 year	0.425822

25 year	0.461812
50 year	0.485584
100 year	0.507267

**Stream Protection Duration
Annual Peaks for Predeveloped and Mitigated. POC #5**

Year	Predeveloped	Mitigated
1956	0.343	0.343
1957	0.436	0.436
1958	0.342	0.342
1959	0.329	0.329
1960	0.340	0.340
1961	0.294	0.294
1962	0.448	0.448
1963	0.415	0.415
1964	0.367	0.367
1965	0.361	0.361
1966	0.349	0.349
1967	0.230	0.230
1968	0.340	0.340
1969	0.319	0.319
1970	0.317	0.317
1971	0.460	0.460
1972	0.386	0.386
1973	0.372	0.372
1974	0.347	0.347
1975	0.313	0.313
1976	0.380	0.380
1977	0.280	0.280
1978	0.487	0.487
1979	0.304	0.304
1980	0.283	0.283
1981	0.363	0.363
1982	0.418	0.418
1983	0.329	0.329
1984	0.301	0.301
1985	0.241	0.241
1986	0.365	0.365
1987	0.256	0.256
1988	0.385	0.385
1989	0.328	0.328
1990	0.416	0.416
1991	0.293	0.293
1992	0.228	0.228
1993	0.255	0.255
1994	0.310	0.310
1995	0.320	0.320
1996	0.385	0.385
1997	0.363	0.363
1998	0.238	0.238
1999	0.287	0.287
2000	0.272	0.272
2001	0.267	0.267
2002	0.424	0.424
2003	0.437	0.437
2004	0.410	0.410

2005	0.328	0.328
2006	0.333	0.333
2007	0.389	0.389
2008	0.214	0.214
2009	0.204	0.204

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	0.4868	0.4868
2	0.4603	0.4603
3	0.4485	0.4485
4	0.4366	0.4366
5	0.4360	0.4360
6	0.4238	0.4238
7	0.4175	0.4175
8	0.4159	0.4159
9	0.4145	0.4145
10	0.4101	0.4101
11	0.3891	0.3891
12	0.3857	0.3857
13	0.3853	0.3853
14	0.3846	0.3846
15	0.3797	0.3797
16	0.3720	0.3720
17	0.3673	0.3673
18	0.3645	0.3645
19	0.3632	0.3632
20	0.3626	0.3626
21	0.3608	0.3608
22	0.3487	0.3487
23	0.3467	0.3467
24	0.3428	0.3428
25	0.3422	0.3422
26	0.3402	0.3402
27	0.3401	0.3401
28	0.3330	0.3330
29	0.3291	0.3291
30	0.3289	0.3289
31	0.3284	0.3284
32	0.3278	0.3278
33	0.3197	0.3197
34	0.3194	0.3194
35	0.3167	0.3167
36	0.3126	0.3126
37	0.3098	0.3098
38	0.3035	0.3035
39	0.3010	0.3010
40	0.2941	0.2941
41	0.2928	0.2928
42	0.2873	0.2873
43	0.2834	0.2834
44	0.2805	0.2805
45	0.2724	0.2724
46	0.2673	0.2673
47	0.2559	0.2559

48	0.2545	0.2545
49	0.2409	0.2409
50	0.2378	0.2378
51	0.2302	0.2302
52	0.2280	0.2280
53	0.2140	0.2140
54	0.2039	0.2039

Stream Protection Duration

POC #5

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.1669	1234	1234	100	Pass
0.1701	1130	1130	100	Pass
0.1733	1064	1064	100	Pass
0.1765	995	995	100	Pass
0.1798	939	939	100	Pass
0.1830	872	872	100	Pass
0.1862	801	801	100	Pass
0.1894	742	742	100	Pass
0.1926	690	690	100	Pass
0.1959	647	647	100	Pass
0.1991	580	580	100	Pass
0.2023	539	539	100	Pass
0.2055	507	507	100	Pass
0.2087	475	475	100	Pass
0.2120	438	438	100	Pass
0.2152	396	396	100	Pass
0.2184	370	370	100	Pass
0.2216	352	352	100	Pass
0.2248	330	330	100	Pass
0.2280	305	305	100	Pass
0.2313	288	288	100	Pass
0.2345	273	273	100	Pass
0.2377	260	260	100	Pass
0.2409	239	239	100	Pass
0.2441	226	226	100	Pass
0.2474	217	217	100	Pass
0.2506	211	211	100	Pass
0.2538	196	196	100	Pass
0.2570	189	189	100	Pass
0.2602	179	179	100	Pass
0.2635	170	170	100	Pass
0.2667	163	163	100	Pass
0.2699	155	155	100	Pass
0.2731	141	141	100	Pass
0.2763	132	132	100	Pass
0.2796	124	124	100	Pass
0.2828	115	115	100	Pass
0.2860	110	110	100	Pass
0.2892	106	106	100	Pass
0.2924	103	103	100	Pass
0.2957	97	97	100	Pass

0.2989	95	95	100	Pass
0.3021	86	86	100	Pass
0.3053	80	80	100	Pass
0.3085	78	78	100	Pass
0.3117	72	72	100	Pass
0.3150	69	69	100	Pass
0.3182	63	63	100	Pass
0.3214	60	60	100	Pass
0.3246	56	56	100	Pass
0.3278	56	56	100	Pass
0.3311	50	50	100	Pass
0.3343	48	48	100	Pass
0.3375	47	47	100	Pass
0.3407	47	47	100	Pass
0.3439	40	40	100	Pass
0.3472	35	35	100	Pass
0.3504	34	34	100	Pass
0.3536	34	34	100	Pass
0.3568	33	33	100	Pass
0.3600	32	32	100	Pass
0.3633	30	30	100	Pass
0.3665	27	27	100	Pass
0.3697	26	26	100	Pass
0.3729	24	24	100	Pass
0.3761	24	24	100	Pass
0.3794	24	24	100	Pass
0.3826	23	23	100	Pass
0.3858	19	19	100	Pass
0.3890	17	17	100	Pass
0.3922	15	15	100	Pass
0.3954	14	14	100	Pass
0.3987	13	13	100	Pass
0.4019	12	12	100	Pass
0.4051	12	12	100	Pass
0.4083	12	12	100	Pass
0.4115	11	11	100	Pass
0.4148	11	11	100	Pass
0.4180	8	8	100	Pass
0.4212	7	7	100	Pass
0.4244	6	6	100	Pass
0.4276	6	6	100	Pass
0.4309	6	6	100	Pass
0.4341	5	5	100	Pass
0.4373	3	3	100	Pass
0.4405	3	3	100	Pass
0.4437	3	3	100	Pass
0.4470	3	3	100	Pass
0.4502	2	2	100	Pass
0.4534	2	2	100	Pass
0.4566	2	2	100	Pass
0.4598	2	2	100	Pass
0.4630	1	1	100	Pass
0.4663	1	1	100	Pass
0.4695	1	1	100	Pass
0.4727	1	1	100	Pass
0.4759	1	1	100	Pass
0.4791	1	1	100	Pass

0.4824	1	1	100	Pass
0.4856	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #5

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 5

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	20.1022	20.1022	100.0	Pass
Feb	15.3477	15.3477	100.0	Pass
Mar	13.6983	13.6983	100.0	Pass
Apr	7.7938	7.7938	100.0	Pass
May	4.3947	4.3947	100.0	Pass
Jun	2.9817	2.9817	100.0	Pass
Jul	1.5055	1.5055	100.0	Pass
Aug	2.2647	2.2647	100.0	Pass
Sep	4.9791	4.9791	100.0	Pass
Oct	11.7663	11.7663	100.0	Pass
Nov	19.3188	19.3188	100.0	Pass
Dec	19.3747	19.3747	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.6474	0.6474	100.0	Pass
2	0.4970	0.4970	100.0	Pass
3	0.6539	0.6539	100.0	Pass
4	0.7816	0.7816	100.0	Pass
5	0.5391	0.5391	100.0	Pass
6	0.8573	0.8573	100.0	Pass
7	0.6313	0.6313	100.0	Pass
8	0.6423	0.6423	100.0	Pass
9	0.6982	0.6982	100.0	Pass
10	0.6659	0.6659	100.0	Pass
11	0.8291	0.8291	100.0	Pass
12	0.6279	0.6279	100.0	Pass
13	0.8197	0.8197	100.0	Pass
14	0.8079	0.8079	100.0	Pass
15	0.7281	0.7281	100.0	Pass
16	0.5783	0.5783	100.0	Pass
17	0.5610	0.5610	100.0	Pass
18	0.4951	0.4951	100.0	Pass
19	0.5052	0.5052	100.0	Pass
20	0.3143	0.3143	100.0	Pass
21	0.6831	0.6831	100.0	Pass
22	0.8007	0.8007	100.0	Pass
23	0.8840	0.8840	100.0	Pass
24	0.5701	0.5701	100.0	Pass
25	0.4833	0.4833	100.0	Pass
26	0.4370	0.4370	100.0	Pass

27	0.5840	0.5840	100.0	Pass
28	0.7489	0.7489	100.0	Pass
29	0.5482	0.5482	100.0	Pass
30	0.6705	0.6705	100.0	Pass
31	0.3730	0.3730	100.0	Pass
Feb1	0.4468	0.4468	100.0	Pass
2	0.4137	0.4137	100.0	Pass
3	0.3689	0.3689	100.0	Pass
4	0.3416	0.3416	100.0	Pass
5	0.6687	0.6687	100.0	Pass
6	0.3004	0.3004	100.0	Pass
7	0.4800	0.4800	100.0	Pass
8	0.3513	0.3513	100.0	Pass
9	0.4424	0.4424	100.0	Pass
10	0.5965	0.5965	100.0	Pass
11	0.7762	0.7762	100.0	Pass
12	0.5813	0.5813	100.0	Pass
13	0.6394	0.6394	100.0	Pass
14	0.9213	0.9213	100.0	Pass
15	0.6271	0.6271	100.0	Pass
16	0.8611	0.8611	100.0	Pass
17	0.7377	0.7377	100.0	Pass
18	0.5577	0.5577	100.0	Pass
19	0.4896	0.4896	100.0	Pass
20	0.4790	0.4790	100.0	Pass
21	0.3927	0.3927	100.0	Pass
22	0.6019	0.6019	100.0	Pass
23	0.5646	0.5646	100.0	Pass
24	0.6234	0.6234	100.0	Pass
25	0.5473	0.5473	100.0	Pass
26	0.5338	0.5338	100.0	Pass
27	0.4664	0.4664	100.0	Pass
28	0.5994	0.5994	100.0	Pass
29	0.4545	0.4545	100.0	Pass
Mar1	0.4527	0.4527	100.0	Pass
2	0.3632	0.3632	100.0	Pass
3	0.5374	0.5374	100.0	Pass
4	0.5580	0.5580	100.0	Pass
5	0.4273	0.4273	100.0	Pass
6	0.5486	0.5486	100.0	Pass
7	0.5480	0.5480	100.0	Pass
8	0.5204	0.5204	100.0	Pass
9	0.5222	0.5222	100.0	Pass
10	0.4456	0.4456	100.0	Pass
11	0.4918	0.4918	100.0	Pass
12	0.4344	0.4344	100.0	Pass
13	0.5358	0.5358	100.0	Pass
14	0.4119	0.4119	100.0	Pass
15	0.3329	0.3329	100.0	Pass
16	0.3279	0.3279	100.0	Pass
17	0.4534	0.4534	100.0	Pass
18	0.2631	0.2631	100.0	Pass
19	0.4236	0.4236	100.0	Pass
20	0.3313	0.3313	100.0	Pass
21	0.5848	0.5848	100.0	Pass
22	0.6501	0.6501	100.0	Pass
23	0.5102	0.5102	100.0	Pass

24	0.3067	0.3067	100.0	Pass
25	0.5230	0.5230	100.0	Pass
26	0.3583	0.3583	100.0	Pass
27	0.3564	0.3564	100.0	Pass
28	0.3969	0.3969	100.0	Pass
29	0.3664	0.3664	100.0	Pass
30	0.2642	0.2642	100.0	Pass
31	0.2141	0.2141	100.0	Pass
Apr1	0.2366	0.2366	100.0	Pass
2	0.2717	0.2717	100.0	Pass
3	0.3897	0.3897	100.0	Pass
4	0.3386	0.3386	100.0	Pass
5	0.3570	0.3570	100.0	Pass
6	0.1793	0.1793	100.0	Pass
7	0.3330	0.3330	100.0	Pass
8	0.3252	0.3252	100.0	Pass
9	0.2927	0.2927	100.0	Pass
10	0.2808	0.2808	100.0	Pass
11	0.4107	0.4107	100.0	Pass
12	0.3358	0.3358	100.0	Pass
13	0.3568	0.3568	100.0	Pass
14	0.2956	0.2956	100.0	Pass
15	0.3164	0.3164	100.0	Pass
16	0.1639	0.1639	100.0	Pass
17	0.2492	0.2492	100.0	Pass
18	0.2898	0.2898	100.0	Pass
19	0.1397	0.1397	100.0	Pass
20	0.1460	0.1460	100.0	Pass
21	0.2633	0.2633	100.0	Pass
22	0.2156	0.2156	100.0	Pass
23	0.1825	0.1825	100.0	Pass
24	0.1449	0.1449	100.0	Pass
25	0.1841	0.1841	100.0	Pass
26	0.3073	0.3073	100.0	Pass
27	0.2307	0.2307	100.0	Pass
28	0.2392	0.2392	100.0	Pass
29	0.1050	0.1050	100.0	Pass
30	0.1607	0.1607	100.0	Pass
May1	0.2598	0.2598	100.0	Pass
2	0.1750	0.1750	100.0	Pass
3	0.1975	0.1975	100.0	Pass
4	0.1472	0.1472	100.0	Pass
5	0.1452	0.1452	100.0	Pass
6	0.1239	0.1239	100.0	Pass
7	0.1687	0.1687	100.0	Pass
8	0.0973	0.0973	100.0	Pass
9	0.1466	0.1466	100.0	Pass
10	0.1172	0.1172	100.0	Pass
11	0.1113	0.1113	100.0	Pass
12	0.1589	0.1589	100.0	Pass
13	0.1703	0.1703	100.0	Pass
14	0.1659	0.1659	100.0	Pass
15	0.1029	0.1029	100.0	Pass
16	0.1457	0.1457	100.0	Pass
17	0.1140	0.1140	100.0	Pass
18	0.1981	0.1981	100.0	Pass
19	0.0963	0.0963	100.0	Pass

20	0.0990	0.0990	100.0	Pass
21	0.1024	0.1024	100.0	Pass
22	0.1269	0.1269	100.0	Pass
23	0.1081	0.1081	100.0	Pass
24	0.1140	0.1140	100.0	Pass
25	0.0932	0.0932	100.0	Pass
26	0.1705	0.1705	100.0	Pass
27	0.1283	0.1283	100.0	Pass
28	0.1407	0.1407	100.0	Pass
29	0.1913	0.1913	100.0	Pass
30	0.1185	0.1185	100.0	Pass
31	0.1305	0.1305	100.0	Pass
Jun1	0.0947	0.0947	100.0	Pass
2	0.1728	0.1728	100.0	Pass
3	0.1602	0.1602	100.0	Pass
4	0.1143	0.1143	100.0	Pass
5	0.1953	0.1953	100.0	Pass
6	0.0635	0.0635	100.0	Pass
7	0.1073	0.1073	100.0	Pass
8	0.1588	0.1588	100.0	Pass
9	0.1168	0.1168	100.0	Pass
10	0.1140	0.1140	100.0	Pass
11	0.0800	0.0800	100.0	Pass
12	0.1034	0.1034	100.0	Pass
13	0.1641	0.1641	100.0	Pass
14	0.0604	0.0604	100.0	Pass
15	0.1327	0.1327	100.0	Pass
16	0.0515	0.0515	100.0	Pass
17	0.0793	0.0793	100.0	Pass
18	0.0503	0.0503	100.0	Pass
19	0.0671	0.0671	100.0	Pass
20	0.0762	0.0762	100.0	Pass
21	0.0704	0.0704	100.0	Pass
22	0.0380	0.0380	100.0	Pass
23	0.2143	0.2143	100.0	Pass
24	0.0452	0.0452	100.0	Pass
25	0.0913	0.0913	100.0	Pass
26	0.0544	0.0544	100.0	Pass
27	0.0515	0.0515	100.0	Pass
28	0.0535	0.0535	100.0	Pass
29	0.0702	0.0702	100.0	Pass
30	0.1472	0.1472	100.0	Pass
Jul1	0.0330	0.0330	100.0	Pass
2	0.0310	0.0310	100.0	Pass
3	0.0360	0.0360	100.0	Pass
4	0.0906	0.0906	100.0	Pass
5	0.0652	0.0652	100.0	Pass
6	0.0495	0.0495	100.0	Pass
7	0.0929	0.0929	100.0	Pass
8	0.0492	0.0492	100.0	Pass
9	0.1104	0.1104	100.0	Pass
10	0.0688	0.0688	100.0	Pass
11	0.1380	0.1380	100.0	Pass
12	0.0583	0.0583	100.0	Pass
13	0.0477	0.0477	100.0	Pass
14	0.0802	0.0802	100.0	Pass
15	0.0314	0.0314	100.0	Pass

16	0.0198	0.0198	100.0	Pass
17	0.0708	0.0708	100.0	Pass
18	0.0206	0.0206	100.0	Pass
19	0.0302	0.0302	100.0	Pass
20	0.0532	0.0532	100.0	Pass
21	0.0401	0.0401	100.0	Pass
22	0.0012	0.0012	100.0	Pass
23	0.0117	0.0117	100.0	Pass
24	0.0138	0.0138	100.0	Pass
25	0.0326	0.0326	100.0	Pass
26	0.0144	0.0144	100.0	Pass
27	0.0204	0.0204	100.0	Pass
28	0.0171	0.0171	100.0	Pass
29	0.0108	0.0108	100.0	Pass
30	0.0192	0.0192	100.0	Pass
31	0.0214	0.0214	100.0	Pass
Aug1	0.0872	0.0872	100.0	Pass
2	0.0284	0.0284	100.0	Pass
3	0.0108	0.0108	100.0	Pass
4	0.0110	0.0110	100.0	Pass
5	0.0978	0.0978	100.0	Pass
6	0.0649	0.0649	100.0	Pass
7	0.0220	0.0220	100.0	Pass
8	0.0237	0.0237	100.0	Pass
9	0.0017	0.0017	100.0	Pass
10	0.0133	0.0133	100.0	Pass
11	0.0636	0.0636	100.0	Pass
12	0.0552	0.0552	100.0	Pass
13	0.0677	0.0677	100.0	Pass
14	0.0390	0.0390	100.0	Pass
15	0.0345	0.0345	100.0	Pass
16	0.0321	0.0321	100.0	Pass
17	0.0645	0.0645	100.0	Pass
18	0.1211	0.1211	100.0	Pass
19	0.0305	0.0305	100.0	Pass
20	0.0941	0.0941	100.0	Pass
21	0.0830	0.0830	100.0	Pass
22	0.1643	0.1643	100.0	Pass
23	0.1481	0.1481	100.0	Pass
24	0.1191	0.1191	100.0	Pass
25	0.0450	0.0450	100.0	Pass
26	0.1560	0.1560	100.0	Pass
27	0.1555	0.1555	100.0	Pass
28	0.1516	0.1516	100.0	Pass
29	0.0963	0.0963	100.0	Pass
30	0.1615	0.1615	100.0	Pass
31	0.2514	0.2514	100.0	Pass
Sep1	0.0849	0.0849	100.0	Pass
2	0.0922	0.0922	100.0	Pass
3	0.1049	0.1049	100.0	Pass
4	0.1359	0.1359	100.0	Pass
5	0.1139	0.1139	100.0	Pass
6	0.0784	0.0784	100.0	Pass
7	0.1592	0.1592	100.0	Pass
8	0.0970	0.0970	100.0	Pass
9	0.2607	0.2607	100.0	Pass
10	0.0533	0.0533	100.0	Pass

11	0.0492	0.0492	100.0	Pass
12	0.1397	0.1397	100.0	Pass
13	0.2531	0.2531	100.0	Pass
14	0.1540	0.1540	100.0	Pass
15	0.2418	0.2418	100.0	Pass
16	0.2455	0.2455	100.0	Pass
17	0.2734	0.2734	100.0	Pass
18	0.2430	0.2430	100.0	Pass
19	0.2564	0.2564	100.0	Pass
20	0.1773	0.1773	100.0	Pass
21	0.2527	0.2527	100.0	Pass
22	0.1998	0.1998	100.0	Pass
23	0.1605	0.1605	100.0	Pass
24	0.1140	0.1140	100.0	Pass
25	0.1278	0.1278	100.0	Pass
26	0.1282	0.1282	100.0	Pass
27	0.1730	0.1730	100.0	Pass
28	0.1533	0.1533	100.0	Pass
29	0.2049	0.2049	100.0	Pass
30	0.1405	0.1405	100.0	Pass
Oct1	0.0985	0.0985	100.0	Pass
2	0.2689	0.2689	100.0	Pass
3	0.2343	0.2343	100.0	Pass
4	0.2841	0.2841	100.0	Pass
5	0.3008	0.3008	100.0	Pass
6	0.3316	0.3316	100.0	Pass
7	0.4224	0.4224	100.0	Pass
8	0.3330	0.3330	100.0	Pass
9	0.2537	0.2537	100.0	Pass
10	0.2072	0.2072	100.0	Pass
11	0.4192	0.4192	100.0	Pass
12	0.2677	0.2677	100.0	Pass
13	0.3886	0.3886	100.0	Pass
14	0.2028	0.2028	100.0	Pass
15	0.2537	0.2537	100.0	Pass
16	0.3416	0.3416	100.0	Pass
17	0.3104	0.3104	100.0	Pass
18	0.5051	0.5051	100.0	Pass
19	0.6149	0.6149	100.0	Pass
20	0.5246	0.5246	100.0	Pass
21	0.6358	0.6358	100.0	Pass
22	0.3451	0.3451	100.0	Pass
23	0.6176	0.6176	100.0	Pass
24	0.5315	0.5315	100.0	Pass
25	0.4693	0.4693	100.0	Pass
26	0.5821	0.5821	100.0	Pass
27	0.4792	0.4792	100.0	Pass
28	0.4481	0.4481	100.0	Pass
29	0.3726	0.3726	100.0	Pass
30	0.5838	0.5838	100.0	Pass
31	0.4718	0.4718	100.0	Pass
Nov1	0.6055	0.6055	100.0	Pass
2	0.7505	0.7505	100.0	Pass
3	0.5478	0.5478	100.0	Pass
4	0.5705	0.5705	100.0	Pass
5	0.6330	0.6330	100.0	Pass
6	0.5122	0.5122	100.0	Pass

7	0.4654	0.4654	100.0	Pass
8	0.6296	0.6296	100.0	Pass
9	0.7409	0.7409	100.0	Pass
10	0.6177	0.6177	100.0	Pass
11	0.6987	0.6987	100.0	Pass
12	0.6449	0.6449	100.0	Pass
13	0.4559	0.4559	100.0	Pass
14	0.5656	0.5656	100.0	Pass
15	0.6368	0.6368	100.0	Pass
16	0.6687	0.6687	100.0	Pass
17	0.5989	0.5989	100.0	Pass
18	0.9079	0.9079	100.0	Pass
19	0.7862	0.7862	100.0	Pass
20	0.4899	0.4899	100.0	Pass
21	0.8343	0.8343	100.0	Pass
22	1.0040	1.0040	100.0	Pass
23	0.7184	0.7184	100.0	Pass
24	0.8438	0.8438	100.0	Pass
25	0.5187	0.5187	100.0	Pass
26	0.4209	0.4209	100.0	Pass
27	0.5517	0.5517	100.0	Pass
28	0.5258	0.5258	100.0	Pass
29	0.9057	0.9057	100.0	Pass
30	0.6854	0.6854	100.0	Pass
Dec1	0.7720	0.7720	100.0	Pass
2	0.7328	0.7328	100.0	Pass
3	0.4445	0.4445	100.0	Pass
4	0.5215	0.5215	100.0	Pass
5	0.4354	0.4354	100.0	Pass
6	0.3855	0.3855	100.0	Pass
7	0.5852	0.5852	100.0	Pass
8	0.7368	0.7368	100.0	Pass
9	0.7110	0.7110	100.0	Pass
10	0.7632	0.7632	100.0	Pass
11	0.5383	0.5383	100.0	Pass
12	0.5997	0.5997	100.0	Pass
13	0.9299	0.9299	100.0	Pass
14	0.5936	0.5936	100.0	Pass
15	0.8272	0.8272	100.0	Pass
16	0.5152	0.5152	100.0	Pass
17	0.6527	0.6527	100.0	Pass
18	0.5243	0.5243	100.0	Pass
19	0.6422	0.6422	100.0	Pass
20	0.6130	0.6130	100.0	Pass
21	0.6751	0.6751	100.0	Pass
22	0.6683	0.6683	100.0	Pass
23	0.7327	0.7327	100.0	Pass
24	0.8216	0.8216	100.0	Pass
25	0.6815	0.6815	100.0	Pass
26	0.6178	0.6178	100.0	Pass
27	0.3997	0.3997	100.0	Pass
28	0.6913	0.6913	100.0	Pass
29	0.4205	0.4205	100.0	Pass
30	0.4598	0.4598	100.0	Pass
31	0.8147	0.8147	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #6

Total Pervious Area:0.107

Total Impervious Area:0.785

Mitigated Landuse Totals for POC #6

Total Pervious Area:0.107

Total Impervious Area:0.785

Flow Frequency Return Periods for Predeveloped. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.61884
5 year	0.73378
10 year	0.795884
25 year	0.862971
50 year	0.906518
100 year	0.94567

Flow Frequency Return Periods for Mitigated. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.61884
5 year	0.73378
10 year	0.795884
25 year	0.862971
50 year	0.906518
100 year	0.94567

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #6

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.649	0.649
1957	0.812	0.812
1958	0.628	0.628
1959	0.619	0.619
1960	0.643	0.643
1961	0.529	0.529
1962	0.849	0.849
1963	0.781	0.781
1964	0.679	0.679
1965	0.675	0.675
1966	0.658	0.658
1967	0.422	0.422
1968	0.637	0.637
1969	0.603	0.603
1970	0.576	0.576
1971	0.868	0.868
1972	0.732	0.732
1973	0.690	0.690
1974	0.655	0.655

1975	0.582	0.582
1976	0.712	0.712
1977	0.518	0.518
1978	0.905	0.905
1979	0.567	0.567
1980	0.523	0.523
1981	0.670	0.670
1982	0.772	0.772
1983	0.609	0.609
1984	0.561	0.561
1985	0.432	0.432
1986	0.680	0.680
1987	0.475	0.475
1988	0.719	0.719
1989	0.608	0.608
1990	0.784	0.784
1991	0.519	0.519
1992	0.408	0.408
1993	0.459	0.459
1994	0.574	0.574
1995	0.566	0.566
1996	0.687	0.687
1997	0.670	0.670
1998	0.418	0.418
1999	0.530	0.530
2000	0.487	0.487
2001	0.481	0.481
2002	0.739	0.739
2003	0.827	0.827
2004	0.771	0.771
2005	0.611	0.611
2006	0.622	0.622
2007	0.733	0.733
2008	0.388	0.388
2009	0.367	0.367

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	0.9045	0.9045
2	0.8680	0.8680
3	0.8491	0.8491
4	0.8273	0.8273
5	0.8118	0.8118
6	0.7841	0.7841
7	0.7810	0.7810
8	0.7724	0.7724
9	0.7707	0.7707
10	0.7394	0.7394
11	0.7329	0.7329
12	0.7320	0.7320
13	0.7191	0.7191
14	0.7117	0.7117
15	0.6896	0.6896
16	0.6875	0.6875
17	0.6804	0.6804

18	0.6794	0.6794
19	0.6750	0.6750
20	0.6700	0.6700
21	0.6700	0.6700
22	0.6581	0.6581
23	0.6550	0.6550
24	0.6486	0.6486
25	0.6430	0.6430
26	0.6369	0.6369
27	0.6281	0.6281
28	0.6223	0.6223
29	0.6191	0.6191
30	0.6110	0.6110
31	0.6092	0.6092
32	0.6083	0.6083
33	0.6031	0.6031
34	0.5822	0.5822
35	0.5760	0.5760
36	0.5744	0.5744
37	0.5668	0.5668
38	0.5656	0.5656
39	0.5605	0.5605
40	0.5296	0.5296
41	0.5291	0.5291
42	0.5233	0.5233
43	0.5189	0.5189
44	0.5177	0.5177
45	0.4868	0.4868
46	0.4812	0.4812
47	0.4749	0.4749
48	0.4588	0.4588
49	0.4315	0.4315
50	0.4218	0.4218
51	0.4185	0.4185
52	0.4079	0.4079
53	0.3876	0.3876
54	0.3668	0.3668

Stream Protection Duration

POC #6

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3094	1100	1100	100	Pass
0.3155	1031	1031	100	Pass
0.3215	959	959	100	Pass
0.3275	893	893	100	Pass
0.3335	832	832	100	Pass
0.3396	774	774	100	Pass
0.3456	721	721	100	Pass
0.3516	660	660	100	Pass
0.3577	611	611	100	Pass
0.3637	567	567	100	Pass
0.3697	532	532	100	Pass

0.3758	496	496	100	Pass
0.3818	469	469	100	Pass
0.3878	429	429	100	Pass
0.3939	399	399	100	Pass
0.3999	370	370	100	Pass
0.4059	348	348	100	Pass
0.4120	322	322	100	Pass
0.4180	302	302	100	Pass
0.4240	285	285	100	Pass
0.4300	267	267	100	Pass
0.4361	255	255	100	Pass
0.4421	238	238	100	Pass
0.4481	228	228	100	Pass
0.4542	216	216	100	Pass
0.4602	201	201	100	Pass
0.4662	194	194	100	Pass
0.4723	185	185	100	Pass
0.4783	174	174	100	Pass
0.4843	167	167	100	Pass
0.4904	159	159	100	Pass
0.4964	151	151	100	Pass
0.5024	142	142	100	Pass
0.5085	136	136	100	Pass
0.5145	127	127	100	Pass
0.5205	116	116	100	Pass
0.5265	109	109	100	Pass
0.5326	101	101	100	Pass
0.5386	98	98	100	Pass
0.5446	93	93	100	Pass
0.5507	91	91	100	Pass
0.5567	89	89	100	Pass
0.5627	81	81	100	Pass
0.5688	77	77	100	Pass
0.5748	74	74	100	Pass
0.5808	70	70	100	Pass
0.5869	65	65	100	Pass
0.5929	63	63	100	Pass
0.5989	62	62	100	Pass
0.6050	58	58	100	Pass
0.6110	53	53	100	Pass
0.6170	51	51	100	Pass
0.6230	46	46	100	Pass
0.6291	43	43	100	Pass
0.6351	43	43	100	Pass
0.6411	42	42	100	Pass
0.6472	40	40	100	Pass
0.6532	38	38	100	Pass
0.6592	34	34	100	Pass
0.6653	34	34	100	Pass
0.6713	32	32	100	Pass
0.6773	29	29	100	Pass
0.6834	26	26	100	Pass
0.6894	24	24	100	Pass
0.6954	23	23	100	Pass
0.7015	23	23	100	Pass
0.7075	23	23	100	Pass
0.7135	22	22	100	Pass

0.7195	20	20	100	Pass
0.7256	18	18	100	Pass
0.7316	17	17	100	Pass
0.7376	14	14	100	Pass
0.7437	13	13	100	Pass
0.7497	12	12	100	Pass
0.7557	11	11	100	Pass
0.7618	11	11	100	Pass
0.7678	11	11	100	Pass
0.7738	9	9	100	Pass
0.7799	9	9	100	Pass
0.7859	7	7	100	Pass
0.7919	6	6	100	Pass
0.7980	6	6	100	Pass
0.8040	6	6	100	Pass
0.8100	6	6	100	Pass
0.8160	5	5	100	Pass
0.8221	4	4	100	Pass
0.8281	3	3	100	Pass
0.8341	3	3	100	Pass
0.8402	3	3	100	Pass
0.8462	3	3	100	Pass
0.8522	2	2	100	Pass
0.8583	2	2	100	Pass
0.8643	2	2	100	Pass
0.8703	1	1	100	Pass
0.8764	1	1	100	Pass
0.8824	1	1	100	Pass
0.8884	1	1	100	Pass
0.8945	1	1	100	Pass
0.9005	1	1	100	Pass
0.9065	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #6
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 6
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	38.3708	38.3708	100.0	Pass
Feb	29.3639	29.3639	100.0	Pass
Mar	26.1687	26.1687	100.0	Pass
Apr	14.7660	14.7660	100.0	Pass
May	8.1259	8.1259	100.0	Pass
Jun	5.4494	5.4494	100.0	Pass
Jul	2.7171	2.7171	100.0	Pass
Aug	4.0550	4.0550	100.0	Pass
Sep	9.0808	9.0808	100.0	Pass
Oct	21.8511	21.8511	100.0	Pass

Nov	36.5950	36.5950	100.0	Pass
Dec	36.9952	36.9952	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.2323	1.2323	100.0	Pass
2	0.9610	0.9610	100.0	Pass
3	1.2395	1.2395	100.0	Pass
4	1.4656	1.4656	100.0	Pass
5	1.0437	1.0437	100.0	Pass
6	1.6045	1.6045	100.0	Pass
7	1.2178	1.2178	100.0	Pass
8	1.2298	1.2298	100.0	Pass
9	1.3218	1.3218	100.0	Pass
10	1.2751	1.2751	100.0	Pass
11	1.5709	1.5709	100.0	Pass
12	1.2138	1.2138	100.0	Pass
13	1.5535	1.5535	100.0	Pass
14	1.5402	1.5402	100.0	Pass
15	1.3983	1.3983	100.0	Pass
16	1.1326	1.1326	100.0	Pass
17	1.0906	1.0906	100.0	Pass
18	0.9636	0.9636	100.0	Pass
19	0.9706	0.9706	100.0	Pass
20	0.6252	0.6252	100.0	Pass
21	1.2606	1.2606	100.0	Pass
22	1.5038	1.5038	100.0	Pass
23	1.6728	1.6728	100.0	Pass
24	1.1149	1.1149	100.0	Pass
25	0.9471	0.9471	100.0	Pass
26	0.8557	0.8557	100.0	Pass
27	1.1065	1.1065	100.0	Pass
28	1.4104	1.4104	100.0	Pass
29	1.0592	1.0592	100.0	Pass
30	1.2713	1.2713	100.0	Pass
31	0.7407	0.7407	100.0	Pass
Feb1	0.8613	0.8613	100.0	Pass
2	0.7918	0.7918	100.0	Pass
3	0.7115	0.7115	100.0	Pass
4	0.6588	0.6588	100.0	Pass
5	1.2440	1.2440	100.0	Pass
6	0.5994	0.5994	100.0	Pass
7	0.9058	0.9058	100.0	Pass
8	0.6788	0.6788	100.0	Pass
9	0.8323	0.8323	100.0	Pass
10	1.1126	1.1126	100.0	Pass
11	1.4565	1.4565	100.0	Pass
12	1.1211	1.1211	100.0	Pass
13	1.2144	1.2144	100.0	Pass
14	1.7210	1.7210	100.0	Pass
15	1.2186	1.2186	100.0	Pass
16	1.6267	1.6267	100.0	Pass
17	1.4161	1.4161	100.0	Pass
18	1.0977	1.0977	100.0	Pass
19	0.9593	0.9593	100.0	Pass
20	0.9306	0.9306	100.0	Pass
21	0.7636	0.7636	100.0	Pass
22	1.1379	1.1379	100.0	Pass

23	1.0757	1.0757	100.0	Pass
24	1.1852	1.1852	100.0	Pass
25	1.0529	1.0529	100.0	Pass
26	1.0299	1.0299	100.0	Pass
27	0.9041	0.9041	100.0	Pass
28	1.1479	1.1479	100.0	Pass
29	0.8752	0.8752	100.0	Pass
Mar1	0.8673	0.8673	100.0	Pass
2	0.7046	0.7046	100.0	Pass
3	1.0127	1.0127	100.0	Pass
4	1.0565	1.0565	100.0	Pass
5	0.8212	0.8212	100.0	Pass
6	1.0452	1.0452	100.0	Pass
7	1.0355	1.0355	100.0	Pass
8	0.9930	0.9930	100.0	Pass
9	0.9969	0.9969	100.0	Pass
10	0.8599	0.8599	100.0	Pass
11	0.9402	0.9402	100.0	Pass
12	0.8330	0.8330	100.0	Pass
13	1.0164	1.0164	100.0	Pass
14	0.7959	0.7959	100.0	Pass
15	0.6474	0.6474	100.0	Pass
16	0.6298	0.6298	100.0	Pass
17	0.8601	0.8601	100.0	Pass
18	0.5157	0.5157	100.0	Pass
19	0.7960	0.7960	100.0	Pass
20	0.6332	0.6332	100.0	Pass
21	1.0874	1.0874	100.0	Pass
22	1.2146	1.2146	100.0	Pass
23	0.9804	0.9804	100.0	Pass
24	0.6134	0.6134	100.0	Pass
25	0.9857	0.9857	100.0	Pass
26	0.6979	0.6979	100.0	Pass
27	0.6814	0.6814	100.0	Pass
28	0.7593	0.7593	100.0	Pass
29	0.6996	0.6996	100.0	Pass
30	0.5159	0.5159	100.0	Pass
31	0.4179	0.4179	100.0	Pass
Apr1	0.4524	0.4524	100.0	Pass
2	0.5133	0.5133	100.0	Pass
3	0.7204	0.7204	100.0	Pass
4	0.6392	0.6392	100.0	Pass
5	0.6811	0.6811	100.0	Pass
6	0.3572	0.3572	100.0	Pass
7	0.6212	0.6212	100.0	Pass
8	0.6158	0.6158	100.0	Pass
9	0.5520	0.5520	100.0	Pass
10	0.5369	0.5369	100.0	Pass
11	0.7600	0.7600	100.0	Pass
12	0.6371	0.6371	100.0	Pass
13	0.6713	0.6713	100.0	Pass
14	0.5651	0.5651	100.0	Pass
15	0.6035	0.6035	100.0	Pass
16	0.3280	0.3280	100.0	Pass
17	0.4697	0.4697	100.0	Pass
18	0.5423	0.5423	100.0	Pass
19	0.2785	0.2785	100.0	Pass

20	0.2800	0.2800	100.0	Pass
21	0.4853	0.4853	100.0	Pass
22	0.4032	0.4032	100.0	Pass
23	0.3467	0.3467	100.0	Pass
24	0.2775	0.2775	100.0	Pass
25	0.3423	0.3423	100.0	Pass
26	0.5706	0.5706	100.0	Pass
27	0.4361	0.4361	100.0	Pass
28	0.4523	0.4523	100.0	Pass
29	0.2109	0.2109	100.0	Pass
30	0.3004	0.3004	100.0	Pass
May1	0.4746	0.4746	100.0	Pass
2	0.3314	0.3314	100.0	Pass
3	0.3668	0.3668	100.0	Pass
4	0.2797	0.2797	100.0	Pass
5	0.2727	0.2727	100.0	Pass
6	0.2321	0.2321	100.0	Pass
7	0.3110	0.3110	100.0	Pass
8	0.1856	0.1856	100.0	Pass
9	0.2694	0.2694	100.0	Pass
10	0.2171	0.2171	100.0	Pass
11	0.2053	0.2053	100.0	Pass
12	0.2909	0.2909	100.0	Pass
13	0.3121	0.3121	100.0	Pass
14	0.3041	0.3041	100.0	Pass
15	0.1968	0.1968	100.0	Pass
16	0.2668	0.2668	100.0	Pass
17	0.2131	0.2131	100.0	Pass
18	0.3575	0.3575	100.0	Pass
19	0.1817	0.1817	100.0	Pass
20	0.1822	0.1822	100.0	Pass
21	0.1883	0.1883	100.0	Pass
22	0.2296	0.2296	100.0	Pass
23	0.1988	0.1988	100.0	Pass
24	0.2096	0.2096	100.0	Pass
25	0.1737	0.1737	100.0	Pass
26	0.3090	0.3090	100.0	Pass
27	0.2371	0.2371	100.0	Pass
28	0.2577	0.2577	100.0	Pass
29	0.3500	0.3500	100.0	Pass
30	0.2219	0.2219	100.0	Pass
31	0.2431	0.2431	100.0	Pass
Jun1	0.1803	0.1803	100.0	Pass
2	0.3115	0.3115	100.0	Pass
3	0.2906	0.2906	100.0	Pass
4	0.2114	0.2114	100.0	Pass
5	0.3532	0.3532	100.0	Pass
6	0.1242	0.1242	100.0	Pass
7	0.1990	0.1990	100.0	Pass
8	0.2891	0.2891	100.0	Pass
9	0.2154	0.2154	100.0	Pass
10	0.2079	0.2079	100.0	Pass
11	0.1481	0.1481	100.0	Pass
12	0.1866	0.1866	100.0	Pass
13	0.2951	0.2951	100.0	Pass
14	0.1151	0.1151	100.0	Pass
15	0.2405	0.2405	100.0	Pass

16	0.0993	0.0993	100.0	Pass
17	0.1456	0.1456	100.0	Pass
18	0.0959	0.0959	100.0	Pass
19	0.1214	0.1214	100.0	Pass
20	0.1362	0.1362	100.0	Pass
21	0.1278	0.1278	100.0	Pass
22	0.0709	0.0709	100.0	Pass
23	0.3772	0.3772	100.0	Pass
24	0.0892	0.0892	100.0	Pass
25	0.1650	0.1650	100.0	Pass
26	0.0991	0.0991	100.0	Pass
27	0.0921	0.0921	100.0	Pass
28	0.0951	0.0951	100.0	Pass
29	0.1240	0.1240	100.0	Pass
30	0.2617	0.2617	100.0	Pass
Jul1	0.0631	0.0631	100.0	Pass
2	0.0568	0.0568	100.0	Pass
3	0.0643	0.0643	100.0	Pass
4	0.1575	0.1575	100.0	Pass
5	0.1146	0.1146	100.0	Pass
6	0.0875	0.0875	100.0	Pass
7	0.1651	0.1651	100.0	Pass
8	0.0910	0.0910	100.0	Pass
9	0.1958	0.1958	100.0	Pass
10	0.1247	0.1247	100.0	Pass
11	0.2500	0.2500	100.0	Pass
12	0.1152	0.1152	100.0	Pass
13	0.0912	0.0912	100.0	Pass
14	0.1452	0.1452	100.0	Pass
15	0.0590	0.0590	100.0	Pass
16	0.0371	0.0371	100.0	Pass
17	0.1261	0.1261	100.0	Pass
18	0.0399	0.0399	100.0	Pass
19	0.0549	0.0549	100.0	Pass
20	0.0942	0.0942	100.0	Pass
21	0.0728	0.0728	100.0	Pass
22	0.0045	0.0045	100.0	Pass
23	0.0212	0.0212	100.0	Pass
24	0.0245	0.0245	100.0	Pass
25	0.0566	0.0566	100.0	Pass
26	0.0250	0.0250	100.0	Pass
27	0.0353	0.0353	100.0	Pass
28	0.0299	0.0299	100.0	Pass
29	0.0192	0.0192	100.0	Pass
30	0.0334	0.0334	100.0	Pass
31	0.0372	0.0372	100.0	Pass
Aug1	0.1516	0.1516	100.0	Pass
2	0.0518	0.0518	100.0	Pass
3	0.0208	0.0208	100.0	Pass
4	0.0203	0.0203	100.0	Pass
5	0.1714	0.1714	100.0	Pass
6	0.1158	0.1158	100.0	Pass
7	0.0408	0.0408	100.0	Pass
8	0.0426	0.0426	100.0	Pass
9	0.0038	0.0038	100.0	Pass
10	0.0236	0.0236	100.0	Pass
11	0.1105	0.1105	100.0	Pass

12	0.0964	0.0964	100.0	Pass
13	0.1188	0.1188	100.0	Pass
14	0.0705	0.0705	100.0	Pass
15	0.0633	0.0633	100.0	Pass
16	0.0576	0.0576	100.0	Pass
17	0.1124	0.1124	100.0	Pass
18	0.2108	0.2108	100.0	Pass
19	0.0567	0.0567	100.0	Pass
20	0.1649	0.1649	100.0	Pass
21	0.1480	0.1480	100.0	Pass
22	0.2907	0.2907	100.0	Pass
23	0.2666	0.2666	100.0	Pass
24	0.2220	0.2220	100.0	Pass
25	0.0887	0.0887	100.0	Pass
26	0.2775	0.2775	100.0	Pass
27	0.2799	0.2799	100.0	Pass
28	0.2758	0.2758	100.0	Pass
29	0.1768	0.1768	100.0	Pass
30	0.2875	0.2875	100.0	Pass
31	0.4508	0.4508	100.0	Pass
Sep1	0.1652	0.1652	100.0	Pass
2	0.1727	0.1727	100.0	Pass
3	0.1922	0.1922	100.0	Pass
4	0.2446	0.2446	100.0	Pass
5	0.2068	0.2068	100.0	Pass
6	0.1438	0.1438	100.0	Pass
7	0.2819	0.2819	100.0	Pass
8	0.1762	0.1762	100.0	Pass
9	0.4602	0.4602	100.0	Pass
10	0.1018	0.1018	100.0	Pass
11	0.0908	0.0908	100.0	Pass
12	0.2473	0.2473	100.0	Pass
13	0.4502	0.4502	100.0	Pass
14	0.2821	0.2821	100.0	Pass
15	0.4346	0.4346	100.0	Pass
16	0.4500	0.4500	100.0	Pass
17	0.4953	0.4953	100.0	Pass
18	0.4427	0.4427	100.0	Pass
19	0.4707	0.4707	100.0	Pass
20	0.3349	0.3349	100.0	Pass
21	0.4692	0.4692	100.0	Pass
22	0.3733	0.3733	100.0	Pass
23	0.2994	0.2994	100.0	Pass
24	0.2136	0.2136	100.0	Pass
25	0.2331	0.2331	100.0	Pass
26	0.2336	0.2336	100.0	Pass
27	0.3165	0.3165	100.0	Pass
28	0.2787	0.2787	100.0	Pass
29	0.3697	0.3697	100.0	Pass
30	0.2605	0.2605	100.0	Pass
Oct1	0.1850	0.1850	100.0	Pass
2	0.4786	0.4786	100.0	Pass
3	0.4226	0.4226	100.0	Pass
4	0.5156	0.5156	100.0	Pass
5	0.5466	0.5466	100.0	Pass
6	0.6017	0.6017	100.0	Pass
7	0.7692	0.7692	100.0	Pass

8	0.6167	0.6167	100.0	Pass
9	0.4755	0.4755	100.0	Pass
10	0.3891	0.3891	100.0	Pass
11	0.7575	0.7575	100.0	Pass
12	0.4983	0.4983	100.0	Pass
13	0.7067	0.7067	100.0	Pass
14	0.3878	0.3878	100.0	Pass
15	0.4714	0.4714	100.0	Pass
16	0.6305	0.6305	100.0	Pass
17	0.5762	0.5762	100.0	Pass
18	0.9290	0.9290	100.0	Pass
19	1.1372	1.1372	100.0	Pass
20	0.9754	0.9754	100.0	Pass
21	1.1798	1.1798	100.0	Pass
22	0.6707	0.6707	100.0	Pass
23	1.1470	1.1470	100.0	Pass
24	0.9979	0.9979	100.0	Pass
25	0.8869	0.8869	100.0	Pass
26	1.0865	1.0865	100.0	Pass
27	0.9101	0.9101	100.0	Pass
28	0.8491	0.8491	100.0	Pass
29	0.7132	0.7132	100.0	Pass
30	1.0823	1.0823	100.0	Pass
31	0.8941	0.8941	100.0	Pass
Nov1	1.1362	1.1362	100.0	Pass
2	1.3880	1.3880	100.0	Pass
3	1.0497	1.0497	100.0	Pass
4	1.0767	1.0767	100.0	Pass
5	1.1932	1.1932	100.0	Pass
6	0.9816	0.9816	100.0	Pass
7	0.8912	0.8912	100.0	Pass
8	1.1749	1.1749	100.0	Pass
9	1.3851	1.3851	100.0	Pass
10	1.1719	1.1719	100.0	Pass
11	1.3169	1.3169	100.0	Pass
12	1.2169	1.2169	100.0	Pass
13	0.8888	0.8888	100.0	Pass
14	1.0693	1.0693	100.0	Pass
15	1.1999	1.1999	100.0	Pass
16	1.2581	1.2581	100.0	Pass
17	1.1382	1.1382	100.0	Pass
18	1.6969	1.6969	100.0	Pass
19	1.4930	1.4930	100.0	Pass
20	0.9617	0.9617	100.0	Pass
21	1.5702	1.5702	100.0	Pass
22	1.8710	1.8710	100.0	Pass
23	1.3837	1.3837	100.0	Pass
24	1.6036	1.6036	100.0	Pass
25	1.0243	1.0243	100.0	Pass
26	0.8309	0.8309	100.0	Pass
27	1.0471	1.0471	100.0	Pass
28	0.9991	0.9991	100.0	Pass
29	1.6852	1.6852	100.0	Pass
30	1.3119	1.3119	100.0	Pass
Dec1	1.4622	1.4622	100.0	Pass
2	1.4017	1.4017	100.0	Pass
3	0.8774	0.8774	100.0	Pass

4	0.9988	0.9988	100.0	Pass
5	0.8462	0.8462	100.0	Pass
6	0.7418	0.7418	100.0	Pass
7	1.0950	1.0950	100.0	Pass
8	1.3770	1.3770	100.0	Pass
9	1.3466	1.3466	100.0	Pass
10	1.4509	1.4509	100.0	Pass
11	1.0414	1.0414	100.0	Pass
12	1.1442	1.1442	100.0	Pass
13	1.7336	1.7336	100.0	Pass
14	1.1566	1.1566	100.0	Pass
15	1.5588	1.5588	100.0	Pass
16	1.0120	1.0120	100.0	Pass
17	1.2429	1.2429	100.0	Pass
18	1.0115	1.0115	100.0	Pass
19	1.2110	1.2110	100.0	Pass
20	1.1708	1.1708	100.0	Pass
21	1.2895	1.2895	100.0	Pass
22	1.2715	1.2715	100.0	Pass
23	1.3888	1.3888	100.0	Pass
24	1.5475	1.5475	100.0	Pass
25	1.3132	1.3132	100.0	Pass
26	1.1956	1.1956	100.0	Pass
27	0.7887	0.7887	100.0	Pass
28	1.3011	1.3011	100.0	Pass
29	0.8266	0.8266	100.0	Pass
30	0.8827	0.8827	100.0	Pass
31	1.5214	1.5214	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #7
Total Pervious Area:0
Total Impervious Area:0.658

Mitigated Landuse Totals for POC #7
Total Pervious Area:0
Total Impervious Area:0.658

Flow Frequency Return Periods for Predeveloped. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.481618
5 year	0.56724
10 year	0.614454
25 year	0.666387
50 year	0.70069
100 year	0.731977

Flow Frequency Return Periods for Mitigated. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
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2 year	0.481618
5 year	0.56724
10 year	0.614454
25 year	0.666387
50 year	0.70069
100 year	0.731977

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #7

Year	Predeveloped	Mitigated
1956	0.495	0.495
1957	0.629	0.629
1958	0.494	0.494
1959	0.475	0.475
1960	0.491	0.491
1961	0.424	0.424
1962	0.647	0.647
1963	0.598	0.598
1964	0.530	0.530
1965	0.521	0.521
1966	0.503	0.503
1967	0.332	0.332
1968	0.491	0.491
1969	0.461	0.461
1970	0.457	0.457
1971	0.664	0.664
1972	0.557	0.557
1973	0.537	0.537
1974	0.500	0.500
1975	0.451	0.451
1976	0.548	0.548
1977	0.405	0.405
1978	0.702	0.702
1979	0.438	0.438
1980	0.409	0.409
1981	0.523	0.523
1982	0.602	0.602
1983	0.475	0.475
1984	0.434	0.434
1985	0.348	0.348
1986	0.526	0.526
1987	0.369	0.369
1988	0.555	0.555
1989	0.474	0.474
1990	0.600	0.600
1991	0.423	0.423
1992	0.329	0.329
1993	0.367	0.367
1994	0.447	0.447
1995	0.461	0.461
1996	0.556	0.556
1997	0.524	0.524
1998	0.343	0.343
1999	0.415	0.415
2000	0.393	0.393
2001	0.386	0.386

2002	0.612	0.612
2003	0.630	0.630
2004	0.592	0.592
2005	0.473	0.473
2006	0.480	0.480
2007	0.562	0.562
2008	0.309	0.309
2009	0.294	0.294

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	0.7024	0.7024
2	0.6643	0.6643
3	0.6472	0.6472
4	0.6300	0.6300
5	0.6291	0.6291
6	0.6115	0.6115
7	0.6025	0.6025
8	0.6001	0.6001
9	0.5981	0.5981
10	0.5917	0.5917
11	0.5615	0.5615
12	0.5565	0.5565
13	0.5559	0.5559
14	0.5550	0.5550
15	0.5480	0.5480
16	0.5368	0.5368
17	0.5300	0.5300
18	0.5260	0.5260
19	0.5241	0.5241
20	0.5232	0.5232
21	0.5206	0.5206
22	0.5032	0.5032
23	0.5003	0.5003
24	0.4947	0.4947
25	0.4937	0.4937
26	0.4909	0.4909
27	0.4908	0.4908
28	0.4805	0.4805
29	0.4749	0.4749
30	0.4745	0.4745
31	0.4739	0.4739
32	0.4730	0.4730
33	0.4613	0.4613
34	0.4608	0.4608
35	0.4570	0.4570
36	0.4510	0.4510
37	0.4470	0.4470
38	0.4380	0.4380
39	0.4343	0.4343
40	0.4243	0.4243
41	0.4226	0.4226
42	0.4145	0.4145
43	0.4089	0.4089
44	0.4047	0.4047

45	0.3930	0.3930
46	0.3857	0.3857
47	0.3693	0.3693
48	0.3673	0.3673
49	0.3476	0.3476
50	0.3431	0.3431
51	0.3322	0.3322
52	0.3289	0.3289
53	0.3088	0.3088
54	0.2943	0.2943

Stream Protection Duration

POC #7

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.2408	1225	1225	100	Pass
0.2455	1137	1137	100	Pass
0.2501	1060	1060	100	Pass
0.2547	994	994	100	Pass
0.2594	928	928	100	Pass
0.2640	862	862	100	Pass
0.2687	804	804	100	Pass
0.2733	738	738	100	Pass
0.2780	690	690	100	Pass
0.2826	641	641	100	Pass
0.2873	580	580	100	Pass
0.2919	542	542	100	Pass
0.2966	506	506	100	Pass
0.3012	468	468	100	Pass
0.3058	430	430	100	Pass
0.3105	398	398	100	Pass
0.3151	367	367	100	Pass
0.3198	352	352	100	Pass
0.3244	326	326	100	Pass
0.3291	305	305	100	Pass
0.3337	289	289	100	Pass
0.3384	273	273	100	Pass
0.3430	255	255	100	Pass
0.3477	239	239	100	Pass
0.3523	226	226	100	Pass
0.3569	218	218	100	Pass
0.3616	211	211	100	Pass
0.3662	196	196	100	Pass
0.3709	189	189	100	Pass
0.3755	180	180	100	Pass
0.3802	170	170	100	Pass
0.3848	161	161	100	Pass
0.3895	155	155	100	Pass
0.3941	141	141	100	Pass
0.3987	133	133	100	Pass
0.4034	123	123	100	Pass
0.4080	115	115	100	Pass
0.4127	110	110	100	Pass

0.4173	106	106	100	Pass
0.4220	103	103	100	Pass
0.4266	97	97	100	Pass
0.4313	94	94	100	Pass
0.4359	86	86	100	Pass
0.4406	80	80	100	Pass
0.4452	76	76	100	Pass
0.4498	72	72	100	Pass
0.4545	68	68	100	Pass
0.4591	63	63	100	Pass
0.4638	60	60	100	Pass
0.4684	56	56	100	Pass
0.4731	56	56	100	Pass
0.4777	50	50	100	Pass
0.4824	48	48	100	Pass
0.4870	47	47	100	Pass
0.4917	45	45	100	Pass
0.4963	39	39	100	Pass
0.5009	37	37	100	Pass
0.5056	34	34	100	Pass
0.5102	34	34	100	Pass
0.5149	33	33	100	Pass
0.5195	32	32	100	Pass
0.5242	30	30	100	Pass
0.5288	27	27	100	Pass
0.5335	26	26	100	Pass
0.5381	24	24	100	Pass
0.5428	24	24	100	Pass
0.5474	24	24	100	Pass
0.5520	23	23	100	Pass
0.5567	18	18	100	Pass
0.5613	17	17	100	Pass
0.5660	16	16	100	Pass
0.5706	14	14	100	Pass
0.5753	13	13	100	Pass
0.5799	12	12	100	Pass
0.5846	12	12	100	Pass
0.5892	12	12	100	Pass
0.5938	11	11	100	Pass
0.5985	10	10	100	Pass
0.6031	7	7	100	Pass
0.6078	7	7	100	Pass
0.6124	6	6	100	Pass
0.6171	6	6	100	Pass
0.6217	6	6	100	Pass
0.6264	5	5	100	Pass
0.6310	3	3	100	Pass
0.6357	3	3	100	Pass
0.6403	3	3	100	Pass
0.6449	3	3	100	Pass
0.6496	2	2	100	Pass
0.6542	2	2	100	Pass
0.6589	2	2	100	Pass
0.6635	2	2	100	Pass
0.6682	1	1	100	Pass
0.6728	1	1	100	Pass
0.6775	1	1	100	Pass

0.6821	1	1	100	Pass
0.6868	1	1	100	Pass
0.6914	1	1	100	Pass
0.6960	1	1	100	Pass
0.7007	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #7
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 7
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	29.0069	29.0069	100.0	Pass
Feb	22.1466	22.1466	100.0	Pass
Mar	19.7667	19.7667	100.0	Pass
Apr	11.2460	11.2460	100.0	Pass
May	6.3412	6.3412	100.0	Pass
Jun	4.3027	4.3027	100.0	Pass
Jul	2.1724	2.1724	100.0	Pass
Aug	3.2679	3.2679	100.0	Pass
Sep	7.1845	7.1845	100.0	Pass
Oct	16.9788	16.9788	100.0	Pass
Nov	27.8763	27.8763	100.0	Pass
Dec	27.9568	27.9568	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.9342	0.9342	100.0	Pass
2	0.7171	0.7171	100.0	Pass
3	0.9435	0.9435	100.0	Pass
4	1.1279	1.1279	100.0	Pass
5	0.7780	0.7780	100.0	Pass
6	1.2371	1.2371	100.0	Pass
7	0.9109	0.9109	100.0	Pass
8	0.9268	0.9268	100.0	Pass
9	1.0075	1.0075	100.0	Pass
10	0.9609	0.9609	100.0	Pass
11	1.1963	1.1963	100.0	Pass
12	0.9061	0.9061	100.0	Pass
13	1.1828	1.1828	100.0	Pass
14	1.1658	1.1658	100.0	Pass
15	1.0506	1.0506	100.0	Pass
16	0.8345	0.8345	100.0	Pass
17	0.8094	0.8094	100.0	Pass
18	0.7144	0.7144	100.0	Pass
19	0.7290	0.7290	100.0	Pass
20	0.4535	0.4535	100.0	Pass
21	0.9857	0.9857	100.0	Pass
22	1.1554	1.1554	100.0	Pass
23	1.2756	1.2756	100.0	Pass

24	0.8226	0.8226	100.0	Pass
25	0.6974	0.6974	100.0	Pass
26	0.6306	0.6306	100.0	Pass
27	0.8428	0.8428	100.0	Pass
28	1.0806	1.0806	100.0	Pass
29	0.7911	0.7911	100.0	Pass
30	0.9676	0.9676	100.0	Pass
31	0.5382	0.5382	100.0	Pass
Feb1	0.6447	0.6447	100.0	Pass
2	0.5970	0.5970	100.0	Pass
3	0.5323	0.5323	100.0	Pass
4	0.4929	0.4929	100.0	Pass
5	0.9649	0.9649	100.0	Pass
6	0.4334	0.4334	100.0	Pass
7	0.6927	0.6927	100.0	Pass
8	0.5070	0.5070	100.0	Pass
9	0.6384	0.6384	100.0	Pass
10	0.8607	0.8607	100.0	Pass
11	1.1200	1.1200	100.0	Pass
12	0.8388	0.8388	100.0	Pass
13	0.9227	0.9227	100.0	Pass
14	1.3295	1.3295	100.0	Pass
15	0.9048	0.9048	100.0	Pass
16	1.2426	1.2426	100.0	Pass
17	1.0645	1.0645	100.0	Pass
18	0.8048	0.8048	100.0	Pass
19	0.7065	0.7065	100.0	Pass
20	0.6911	0.6911	100.0	Pass
21	0.5667	0.5667	100.0	Pass
22	0.8686	0.8686	100.0	Pass
23	0.8147	0.8147	100.0	Pass
24	0.8996	0.8996	100.0	Pass
25	0.7897	0.7897	100.0	Pass
26	0.7702	0.7702	100.0	Pass
27	0.6730	0.6730	100.0	Pass
28	0.8649	0.8649	100.0	Pass
29	0.6558	0.6558	100.0	Pass
Mar1	0.6533	0.6533	100.0	Pass
2	0.5240	0.5240	100.0	Pass
3	0.7755	0.7755	100.0	Pass
4	0.8052	0.8052	100.0	Pass
5	0.6166	0.6166	100.0	Pass
6	0.7916	0.7916	100.0	Pass
7	0.7908	0.7908	100.0	Pass
8	0.7509	0.7509	100.0	Pass
9	0.7535	0.7535	100.0	Pass
10	0.6429	0.6429	100.0	Pass
11	0.7097	0.7097	100.0	Pass
12	0.6269	0.6269	100.0	Pass
13	0.7731	0.7731	100.0	Pass
14	0.5943	0.5943	100.0	Pass
15	0.4804	0.4804	100.0	Pass
16	0.4731	0.4731	100.0	Pass
17	0.6542	0.6542	100.0	Pass
18	0.3797	0.3797	100.0	Pass
19	0.6113	0.6113	100.0	Pass
20	0.4780	0.4780	100.0	Pass

21	0.8438	0.8438	100.0	Pass
22	0.9381	0.9381	100.0	Pass
23	0.7362	0.7362	100.0	Pass
24	0.4426	0.4426	100.0	Pass
25	0.7546	0.7546	100.0	Pass
26	0.5171	0.5171	100.0	Pass
27	0.5143	0.5143	100.0	Pass
28	0.5727	0.5727	100.0	Pass
29	0.5287	0.5287	100.0	Pass
30	0.3813	0.3813	100.0	Pass
31	0.3089	0.3089	100.0	Pass
Apr1	0.3414	0.3414	100.0	Pass
2	0.3920	0.3920	100.0	Pass
3	0.5623	0.5623	100.0	Pass
4	0.4886	0.4886	100.0	Pass
5	0.5151	0.5151	100.0	Pass
6	0.2587	0.2587	100.0	Pass
7	0.4805	0.4805	100.0	Pass
8	0.4693	0.4693	100.0	Pass
9	0.4223	0.4223	100.0	Pass
10	0.4053	0.4053	100.0	Pass
11	0.5927	0.5927	100.0	Pass
12	0.4845	0.4845	100.0	Pass
13	0.5148	0.5148	100.0	Pass
14	0.4266	0.4266	100.0	Pass
15	0.4566	0.4566	100.0	Pass
16	0.2365	0.2365	100.0	Pass
17	0.3596	0.3596	100.0	Pass
18	0.4181	0.4181	100.0	Pass
19	0.2016	0.2016	100.0	Pass
20	0.2106	0.2106	100.0	Pass
21	0.3799	0.3799	100.0	Pass
22	0.3111	0.3111	100.0	Pass
23	0.2634	0.2634	100.0	Pass
24	0.2091	0.2091	100.0	Pass
25	0.2657	0.2657	100.0	Pass
26	0.4435	0.4435	100.0	Pass
27	0.3328	0.3328	100.0	Pass
28	0.3451	0.3451	100.0	Pass
29	0.1516	0.1516	100.0	Pass
30	0.2319	0.2319	100.0	Pass
May1	0.3749	0.3749	100.0	Pass
2	0.2525	0.2525	100.0	Pass
3	0.2850	0.2850	100.0	Pass
4	0.2124	0.2124	100.0	Pass
5	0.2095	0.2095	100.0	Pass
6	0.1787	0.1787	100.0	Pass
7	0.2435	0.2435	100.0	Pass
8	0.1404	0.1404	100.0	Pass
9	0.2115	0.2115	100.0	Pass
10	0.1691	0.1691	100.0	Pass
11	0.1606	0.1606	100.0	Pass
12	0.2292	0.2292	100.0	Pass
13	0.2458	0.2458	100.0	Pass
14	0.2394	0.2394	100.0	Pass
15	0.1485	0.1485	100.0	Pass
16	0.2102	0.2102	100.0	Pass

17	0.1645	0.1645	100.0	Pass
18	0.2858	0.2858	100.0	Pass
19	0.1389	0.1389	100.0	Pass
20	0.1428	0.1428	100.0	Pass
21	0.1477	0.1477	100.0	Pass
22	0.1831	0.1831	100.0	Pass
23	0.1561	0.1561	100.0	Pass
24	0.1645	0.1645	100.0	Pass
25	0.1345	0.1345	100.0	Pass
26	0.2460	0.2460	100.0	Pass
27	0.1852	0.1852	100.0	Pass
28	0.2030	0.2030	100.0	Pass
29	0.2760	0.2760	100.0	Pass
30	0.1710	0.1710	100.0	Pass
31	0.1883	0.1883	100.0	Pass
Jun1	0.1367	0.1367	100.0	Pass
2	0.2494	0.2494	100.0	Pass
3	0.2312	0.2312	100.0	Pass
4	0.1649	0.1649	100.0	Pass
5	0.2818	0.2818	100.0	Pass
6	0.0916	0.0916	100.0	Pass
7	0.1549	0.1549	100.0	Pass
8	0.2292	0.2292	100.0	Pass
9	0.1686	0.1686	100.0	Pass
10	0.1646	0.1646	100.0	Pass
11	0.1155	0.1155	100.0	Pass
12	0.1492	0.1492	100.0	Pass
13	0.2367	0.2367	100.0	Pass
14	0.0871	0.0871	100.0	Pass
15	0.1914	0.1914	100.0	Pass
16	0.0743	0.0743	100.0	Pass
17	0.1144	0.1144	100.0	Pass
18	0.0726	0.0726	100.0	Pass
19	0.0968	0.0968	100.0	Pass
20	0.1100	0.1100	100.0	Pass
21	0.1017	0.1017	100.0	Pass
22	0.0548	0.0548	100.0	Pass
23	0.3092	0.3092	100.0	Pass
24	0.0652	0.0652	100.0	Pass
25	0.1318	0.1318	100.0	Pass
26	0.0785	0.0785	100.0	Pass
27	0.0743	0.0743	100.0	Pass
28	0.0772	0.0772	100.0	Pass
29	0.1013	0.1013	100.0	Pass
30	0.2123	0.2123	100.0	Pass
Jul1	0.0476	0.0476	100.0	Pass
2	0.0447	0.0447	100.0	Pass
3	0.0520	0.0520	100.0	Pass
4	0.1308	0.1308	100.0	Pass
5	0.0941	0.0941	100.0	Pass
6	0.0715	0.0715	100.0	Pass
7	0.1341	0.1341	100.0	Pass
8	0.0709	0.0709	100.0	Pass
9	0.1593	0.1593	100.0	Pass
10	0.0992	0.0992	100.0	Pass
11	0.1991	0.1991	100.0	Pass
12	0.0842	0.0842	100.0	Pass

13	0.0689	0.0689	100.0	Pass
14	0.1157	0.1157	100.0	Pass
15	0.0453	0.0453	100.0	Pass
16	0.0286	0.0286	100.0	Pass
17	0.1022	0.1022	100.0	Pass
18	0.0297	0.0297	100.0	Pass
19	0.0436	0.0436	100.0	Pass
20	0.0768	0.0768	100.0	Pass
21	0.0579	0.0579	100.0	Pass
22	0.0018	0.0018	100.0	Pass
23	0.0168	0.0168	100.0	Pass
24	0.0200	0.0200	100.0	Pass
25	0.0471	0.0471	100.0	Pass
26	0.0207	0.0207	100.0	Pass
27	0.0294	0.0294	100.0	Pass
28	0.0247	0.0247	100.0	Pass
29	0.0156	0.0156	100.0	Pass
30	0.0277	0.0277	100.0	Pass
31	0.0309	0.0309	100.0	Pass
Aug1	0.1258	0.1258	100.0	Pass
2	0.0410	0.0410	100.0	Pass
3	0.0156	0.0156	100.0	Pass
4	0.0158	0.0158	100.0	Pass
5	0.1412	0.1412	100.0	Pass
6	0.0937	0.0937	100.0	Pass
7	0.0317	0.0317	100.0	Pass
8	0.0343	0.0343	100.0	Pass
9	0.0024	0.0024	100.0	Pass
10	0.0192	0.0192	100.0	Pass
11	0.0917	0.0917	100.0	Pass
12	0.0796	0.0796	100.0	Pass
13	0.0977	0.0977	100.0	Pass
14	0.0562	0.0562	100.0	Pass
15	0.0498	0.0498	100.0	Pass
16	0.0464	0.0464	100.0	Pass
17	0.0931	0.0931	100.0	Pass
18	0.1747	0.1747	100.0	Pass
19	0.0440	0.0440	100.0	Pass
20	0.1358	0.1358	100.0	Pass
21	0.1197	0.1197	100.0	Pass
22	0.2370	0.2370	100.0	Pass
23	0.2137	0.2137	100.0	Pass
24	0.1719	0.1719	100.0	Pass
25	0.0650	0.0650	100.0	Pass
26	0.2251	0.2251	100.0	Pass
27	0.2243	0.2243	100.0	Pass
28	0.2188	0.2188	100.0	Pass
29	0.1390	0.1390	100.0	Pass
30	0.2330	0.2330	100.0	Pass
31	0.3628	0.3628	100.0	Pass
Sep1	0.1225	0.1225	100.0	Pass
2	0.1330	0.1330	100.0	Pass
3	0.1513	0.1513	100.0	Pass
4	0.1961	0.1961	100.0	Pass
5	0.1644	0.1644	100.0	Pass
6	0.1132	0.1132	100.0	Pass
7	0.2298	0.2298	100.0	Pass

8	0.1399	0.1399	100.0	Pass
9	0.3762	0.3762	100.0	Pass
10	0.0769	0.0769	100.0	Pass
11	0.0711	0.0711	100.0	Pass
12	0.2016	0.2016	100.0	Pass
13	0.3653	0.3653	100.0	Pass
14	0.2222	0.2222	100.0	Pass
15	0.3489	0.3489	100.0	Pass
16	0.3543	0.3543	100.0	Pass
17	0.3944	0.3944	100.0	Pass
18	0.3507	0.3507	100.0	Pass
19	0.3700	0.3700	100.0	Pass
20	0.2558	0.2558	100.0	Pass
21	0.3647	0.3647	100.0	Pass
22	0.2883	0.2883	100.0	Pass
23	0.2316	0.2316	100.0	Pass
24	0.1645	0.1645	100.0	Pass
25	0.1844	0.1844	100.0	Pass
26	0.1850	0.1850	100.0	Pass
27	0.2496	0.2496	100.0	Pass
28	0.2213	0.2213	100.0	Pass
29	0.2957	0.2957	100.0	Pass
30	0.2027	0.2027	100.0	Pass
Oct1	0.1421	0.1421	100.0	Pass
2	0.3880	0.3880	100.0	Pass
3	0.3381	0.3381	100.0	Pass
4	0.4100	0.4100	100.0	Pass
5	0.4340	0.4340	100.0	Pass
6	0.4785	0.4785	100.0	Pass
7	0.6096	0.6096	100.0	Pass
8	0.4804	0.4804	100.0	Pass
9	0.3661	0.3661	100.0	Pass
10	0.2989	0.2989	100.0	Pass
11	0.6049	0.6049	100.0	Pass
12	0.3864	0.3864	100.0	Pass
13	0.5607	0.5607	100.0	Pass
14	0.2927	0.2927	100.0	Pass
15	0.3660	0.3660	100.0	Pass
16	0.4929	0.4929	100.0	Pass
17	0.4480	0.4480	100.0	Pass
18	0.7289	0.7289	100.0	Pass
19	0.8873	0.8873	100.0	Pass
20	0.7570	0.7570	100.0	Pass
21	0.9175	0.9175	100.0	Pass
22	0.4980	0.4980	100.0	Pass
23	0.8912	0.8912	100.0	Pass
24	0.7669	0.7669	100.0	Pass
25	0.6771	0.6771	100.0	Pass
26	0.8400	0.8400	100.0	Pass
27	0.6915	0.6915	100.0	Pass
28	0.6466	0.6466	100.0	Pass
29	0.5376	0.5376	100.0	Pass
30	0.8424	0.8424	100.0	Pass
31	0.6807	0.6807	100.0	Pass
Nov1	0.8737	0.8737	100.0	Pass
2	1.0829	1.0829	100.0	Pass
3	0.7905	0.7905	100.0	Pass

4	0.8232	0.8232	100.0	Pass
5	0.9135	0.9135	100.0	Pass
6	0.7391	0.7391	100.0	Pass
7	0.6716	0.6716	100.0	Pass
8	0.9086	0.9086	100.0	Pass
9	1.0691	1.0691	100.0	Pass
10	0.8914	0.8914	100.0	Pass
11	1.0083	1.0083	100.0	Pass
12	0.9306	0.9306	100.0	Pass
13	0.6579	0.6579	100.0	Pass
14	0.8161	0.8161	100.0	Pass
15	0.9190	0.9190	100.0	Pass
16	0.9650	0.9650	100.0	Pass
17	0.8642	0.8642	100.0	Pass
18	1.3100	1.3100	100.0	Pass
19	1.1344	1.1344	100.0	Pass
20	0.7069	0.7069	100.0	Pass
21	1.2039	1.2039	100.0	Pass
22	1.4487	1.4487	100.0	Pass
23	1.0367	1.0367	100.0	Pass
24	1.2176	1.2176	100.0	Pass
25	0.7484	0.7484	100.0	Pass
26	0.6074	0.6074	100.0	Pass
27	0.7961	0.7961	100.0	Pass
28	0.7588	0.7588	100.0	Pass
29	1.3069	1.3069	100.0	Pass
30	0.9890	0.9890	100.0	Pass
Dec1	1.1140	1.1140	100.0	Pass
2	1.0573	1.0573	100.0	Pass
3	0.6415	0.6415	100.0	Pass
4	0.7525	0.7525	100.0	Pass
5	0.6283	0.6283	100.0	Pass
6	0.5563	0.5563	100.0	Pass
7	0.8444	0.8444	100.0	Pass
8	1.0632	1.0632	100.0	Pass
9	1.0260	1.0260	100.0	Pass
10	1.1013	1.1013	100.0	Pass
11	0.7768	0.7768	100.0	Pass
12	0.8654	0.8654	100.0	Pass
13	1.3418	1.3418	100.0	Pass
14	0.8566	0.8566	100.0	Pass
15	1.1936	1.1936	100.0	Pass
16	0.7434	0.7434	100.0	Pass
17	0.9419	0.9419	100.0	Pass
18	0.7566	0.7566	100.0	Pass
19	0.9267	0.9267	100.0	Pass
20	0.8845	0.8845	100.0	Pass
21	0.9741	0.9741	100.0	Pass
22	0.9643	0.9643	100.0	Pass
23	1.0572	1.0572	100.0	Pass
24	1.1855	1.1855	100.0	Pass
25	0.9834	0.9834	100.0	Pass
26	0.8915	0.8915	100.0	Pass
27	0.5767	0.5767	100.0	Pass
28	0.9975	0.9975	100.0	Pass
29	0.6068	0.6068	100.0	Pass
30	0.6635	0.6635	100.0	Pass

31 1.1757 1.1757 100.0 Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #8

Total Pervious Area:0.202

Total Impervious Area:0.103

Mitigated Landuse Totals for POC #8

Total Pervious Area:0.202

Total Impervious Area:0.103

Flow Frequency Return Periods for Predeveloped. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.157419
5 year	0.199403
10 year	0.223201
25 year	0.24973
50 year	0.267387
100 year	0.283546

Flow Frequency Return Periods for Mitigated. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.157419
5 year	0.199403
10 year	0.223201
25 year	0.24973
50 year	0.267387
100 year	0.283546

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #8

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.188	0.188
1957	0.214	0.214
1958	0.151	0.151
1959	0.174	0.174
1960	0.185	0.185
1961	0.125	0.125
1962	0.247	0.247
1963	0.221	0.221
1964	0.172	0.172
1965	0.183	0.183
1966	0.188	0.188
1967	0.100	0.100
1968	0.174	0.174
1969	0.173	0.173
1970	0.130	0.130
1971	0.247	0.247

1972	0.216	0.216
1973	0.177	0.177
1974	0.188	0.188
1975	0.154	0.154
1976	0.195	0.195
1977	0.129	0.129
1978	0.236	0.236
1979	0.152	0.152
1980	0.134	0.134
1981	0.168	0.168
1982	0.196	0.196
1983	0.156	0.156
1984	0.151	0.151
1985	0.086	0.086
1986	0.182	0.182
1987	0.123	0.123
1988	0.195	0.195
1989	0.155	0.155
1990	0.223	0.223
1991	0.128	0.128
1992	0.094	0.094
1993	0.097	0.097
1994	0.148	0.148
1995	0.103	0.103
1996	0.133	0.133
1997	0.166	0.166
1998	0.094	0.094
1999	0.133	0.133
2000	0.123	0.123
2001	0.100	0.100
2002	0.131	0.131
2003	0.242	0.242
2004	0.215	0.215
2005	0.162	0.162
2006	0.168	0.168
2007	0.207	0.207
2008	0.085	0.085
2009	0.076	0.076

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	0.2467	0.2467
2	0.2466	0.2466
3	0.2415	0.2415
4	0.2355	0.2355
5	0.2226	0.2226
6	0.2208	0.2208
7	0.2157	0.2157
8	0.2150	0.2150
9	0.2142	0.2142
10	0.2068	0.2068
11	0.1956	0.1956
12	0.1952	0.1952
13	0.1946	0.1946
14	0.1880	0.1880

15	0.1879	0.1879
16	0.1878	0.1878
17	0.1853	0.1853
18	0.1833	0.1833
19	0.1821	0.1821
20	0.1770	0.1770
21	0.1736	0.1736
22	0.1736	0.1736
23	0.1728	0.1728
24	0.1720	0.1720
25	0.1684	0.1684
26	0.1678	0.1678
27	0.1664	0.1664
28	0.1623	0.1623
29	0.1555	0.1555
30	0.1553	0.1553
31	0.1539	0.1539
32	0.1522	0.1522
33	0.1511	0.1511
34	0.1511	0.1511
35	0.1475	0.1475
36	0.1339	0.1339
37	0.1333	0.1333
38	0.1328	0.1328
39	0.1310	0.1310
40	0.1298	0.1298
41	0.1293	0.1293
42	0.1282	0.1282
43	0.1251	0.1251
44	0.1227	0.1227
45	0.1226	0.1226
46	0.1028	0.1028
47	0.1002	0.1002
48	0.1001	0.1001
49	0.0966	0.0966
50	0.0940	0.0940
51	0.0935	0.0935
52	0.0863	0.0863
53	0.0845	0.0845
54	0.0759	0.0759

Stream Protection Duration

POC #8

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0787	681	681	100	Pass
0.0806	641	641	100	Pass
0.0825	593	593	100	Pass
0.0844	550	550	100	Pass
0.0863	510	510	100	Pass
0.0882	474	474	100	Pass
0.0901	441	441	100	Pass
0.0921	407	407	100	Pass

0.0940	380	380	100	Pass
0.0959	357	357	100	Pass
0.0978	340	340	100	Pass
0.0997	319	319	100	Pass
0.1016	302	302	100	Pass
0.1035	282	282	100	Pass
0.1054	248	248	100	Pass
0.1073	235	235	100	Pass
0.1092	218	218	100	Pass
0.1111	203	203	100	Pass
0.1130	197	197	100	Pass
0.1149	186	186	100	Pass
0.1168	179	179	100	Pass
0.1187	170	170	100	Pass
0.1206	163	163	100	Pass
0.1225	155	155	100	Pass
0.1244	146	146	100	Pass
0.1264	135	135	100	Pass
0.1283	127	127	100	Pass
0.1302	123	123	100	Pass
0.1321	116	116	100	Pass
0.1340	108	108	100	Pass
0.1359	101	101	100	Pass
0.1378	97	97	100	Pass
0.1397	92	92	100	Pass
0.1416	89	89	100	Pass
0.1435	85	85	100	Pass
0.1454	82	82	100	Pass
0.1473	77	77	100	Pass
0.1492	74	74	100	Pass
0.1511	70	70	100	Pass
0.1530	66	66	100	Pass
0.1549	62	62	100	Pass
0.1568	60	60	100	Pass
0.1588	58	58	100	Pass
0.1607	55	55	100	Pass
0.1626	53	53	100	Pass
0.1645	49	49	100	Pass
0.1664	48	48	100	Pass
0.1683	46	46	100	Pass
0.1702	44	44	100	Pass
0.1721	42	42	100	Pass
0.1740	38	38	100	Pass
0.1759	37	37	100	Pass
0.1778	34	34	100	Pass
0.1797	33	33	100	Pass
0.1816	32	32	100	Pass
0.1835	29	29	100	Pass
0.1854	27	27	100	Pass
0.1873	27	27	100	Pass
0.1892	23	23	100	Pass
0.1912	22	22	100	Pass
0.1931	21	21	100	Pass
0.1950	19	19	100	Pass
0.1969	16	16	100	Pass
0.1988	15	15	100	Pass
0.2007	14	14	100	Pass

0.2026	13	13	100	Pass
0.2045	12	12	100	Pass
0.2064	12	12	100	Pass
0.2083	11	11	100	Pass
0.2102	11	11	100	Pass
0.2121	11	11	100	Pass
0.2140	11	11	100	Pass
0.2159	8	8	100	Pass
0.2178	8	8	100	Pass
0.2197	8	8	100	Pass
0.2216	7	7	100	Pass
0.2236	6	6	100	Pass
0.2255	6	6	100	Pass
0.2274	6	6	100	Pass
0.2293	6	6	100	Pass
0.2312	5	5	100	Pass
0.2331	5	5	100	Pass
0.2350	4	4	100	Pass
0.2369	3	3	100	Pass
0.2388	3	3	100	Pass
0.2407	3	3	100	Pass
0.2426	2	2	100	Pass
0.2445	2	2	100	Pass
0.2464	2	2	100	Pass
0.2483	0	0	100	Pass
0.2502	0	0	0	Pass
0.2521	0	0	0	Pass
0.2540	0	0	0	Pass
0.2560	0	0	0	Pass
0.2579	0	0	0	Pass
0.2598	0	0	0	Pass
0.2617	0	0	0	Pass
0.2636	0	0	0	Pass
0.2655	0	0	0	Pass
0.2674	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #8
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 8
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	11.6449	11.6449	100.0	Pass
Feb	9.0210	9.0210	100.0	Pass
Mar	7.9747	7.9747	100.0	Pass
Apr	4.3065	4.3065	100.0	Pass
May	2.0510	2.0510	100.0	Pass
Jun	1.2711	1.2711	100.0	Pass
Jul	0.5772	0.5772	100.0	Pass

Aug	0.8068	0.8068	100.0	Pass
Sep	2.0865	2.0865	100.0	Pass
Oct	5.6685	5.6685	100.0	Pass
Nov	10.6599	10.6599	100.0	Pass
Dec	11.2467	11.2467	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3685	0.3685	100.0	Pass
2	0.3112	0.3112	100.0	Pass
3	0.3627	0.3627	100.0	Pass
4	0.4032	0.4032	100.0	Pass
5	0.3400	0.3400	100.0	Pass
6	0.4365	0.4365	100.0	Pass
7	0.3900	0.3900	100.0	Pass
8	0.3794	0.3794	100.0	Pass
9	0.3840	0.3840	100.0	Pass
10	0.3934	0.3934	100.0	Pass
11	0.4586	0.4586	100.0	Pass
12	0.3927	0.3927	100.0	Pass
13	0.4538	0.4538	100.0	Pass
14	0.4644	0.4644	100.0	Pass
15	0.4380	0.4380	100.0	Pass
16	0.3893	0.3893	100.0	Pass
17	0.3626	0.3626	100.0	Pass
18	0.3219	0.3219	100.0	Pass
19	0.3046	0.3046	100.0	Pass
20	0.2299	0.2299	100.0	Pass
21	0.3142	0.3142	100.0	Pass
22	0.4175	0.4175	100.0	Pass
23	0.4847	0.4847	100.0	Pass
24	0.3809	0.3809	100.0	Pass
25	0.3263	0.3263	100.0	Pass
26	0.2939	0.2939	100.0	Pass
27	0.3228	0.3228	100.0	Pass
28	0.3979	0.3979	100.0	Pass
29	0.3416	0.3416	100.0	Pass
30	0.3723	0.3723	100.0	Pass
31	0.2704	0.2704	100.0	Pass
Feb1	0.2750	0.2750	100.0	Pass
2	0.2438	0.2438	100.0	Pass
3	0.2278	0.2278	100.0	Pass
4	0.2108	0.2108	100.0	Pass
5	0.3265	0.3265	100.0	Pass
6	0.2233	0.2233	100.0	Pass
7	0.2584	0.2584	100.0	Pass
8	0.2191	0.2191	100.0	Pass
9	0.2335	0.2335	100.0	Pass
10	0.2966	0.2966	100.0	Pass
11	0.4024	0.4024	100.0	Pass
12	0.3585	0.3585	100.0	Pass
13	0.3589	0.3589	100.0	Pass
14	0.4628	0.4628	100.0	Pass
15	0.4043	0.4043	100.0	Pass
16	0.4668	0.4668	100.0	Pass
17	0.4424	0.4424	100.0	Pass
18	0.3858	0.3858	100.0	Pass
19	0.3304	0.3304	100.0	Pass

20	0.3085	0.3085	100.0	Pass
21	0.2540	0.2540	100.0	Pass
22	0.3278	0.3278	100.0	Pass
23	0.3234	0.3234	100.0	Pass
24	0.3522	0.3522	100.0	Pass
25	0.3327	0.3327	100.0	Pass
26	0.3303	0.3303	100.0	Pass
27	0.2963	0.2963	100.0	Pass
28	0.3546	0.3546	100.0	Pass
29	0.2780	0.2780	100.0	Pass
Mar1	0.2683	0.2683	100.0	Pass
2	0.2320	0.2320	100.0	Pass
3	0.2867	0.2867	100.0	Pass
4	0.3070	0.3070	100.0	Pass
5	0.2581	0.2581	100.0	Pass
6	0.3141	0.3141	100.0	Pass
7	0.2976	0.2976	100.0	Pass
8	0.3011	0.3011	100.0	Pass
9	0.3028	0.3028	100.0	Pass
10	0.2760	0.2760	100.0	Pass
11	0.2876	0.2876	100.0	Pass
12	0.2587	0.2587	100.0	Pass
13	0.2985	0.2985	100.0	Pass
14	0.2570	0.2570	100.0	Pass
15	0.2155	0.2155	100.0	Pass
16	0.1974	0.1974	100.0	Pass
17	0.2527	0.2527	100.0	Pass
18	0.1779	0.1779	100.0	Pass
19	0.2217	0.2217	100.0	Pass
20	0.1935	0.1935	100.0	Pass
21	0.2844	0.2844	100.0	Pass
22	0.3271	0.3271	100.0	Pass
23	0.3081	0.3081	100.0	Pass
24	0.2304	0.2304	100.0	Pass
25	0.2794	0.2794	100.0	Pass
26	0.2339	0.2339	100.0	Pass
27	0.2087	0.2087	100.0	Pass
28	0.2333	0.2333	100.0	Pass
29	0.2128	0.2128	100.0	Pass
30	0.1750	0.1750	100.0	Pass
31	0.1417	0.1417	100.0	Pass
Apr1	0.1385	0.1385	100.0	Pass
2	0.1475	0.1475	100.0	Pass
3	0.1817	0.1817	100.0	Pass
4	0.1828	0.1828	100.0	Pass
5	0.2063	0.2063	100.0	Pass
6	0.1322	0.1322	100.0	Pass
7	0.1658	0.1658	100.0	Pass
8	0.1790	0.1790	100.0	Pass
9	0.1572	0.1572	100.0	Pass
10	0.1642	0.1642	100.0	Pass
11	0.1927	0.1927	100.0	Pass
12	0.1874	0.1874	100.0	Pass
13	0.1885	0.1885	100.0	Pass
14	0.1729	0.1729	100.0	Pass
15	0.1826	0.1826	100.0	Pass
16	0.1235	0.1235	100.0	Pass

17	0.1331	0.1331	100.0	Pass
18	0.1476	0.1476	100.0	Pass
19	0.1033	0.1033	100.0	Pass
20	0.0871	0.0871	100.0	Pass
21	0.1200	0.1200	100.0	Pass
22	0.1092	0.1092	100.0	Pass
23	0.1027	0.1027	100.0	Pass
24	0.0856	0.0856	100.0	Pass
25	0.0895	0.0895	100.0	Pass
26	0.1477	0.1477	100.0	Pass
27	0.1257	0.1257	100.0	Pass
28	0.1306	0.1306	100.0	Pass
29	0.0805	0.0805	100.0	Pass
30	0.0811	0.0811	100.0	Pass
May1	0.1104	0.1104	100.0	Pass
2	0.0965	0.0965	100.0	Pass
3	0.0951	0.0951	100.0	Pass
4	0.0828	0.0828	100.0	Pass
5	0.0758	0.0758	100.0	Pass
6	0.0636	0.0636	100.0	Pass
7	0.0768	0.0768	100.0	Pass
8	0.0563	0.0563	100.0	Pass
9	0.0654	0.0654	100.0	Pass
10	0.0554	0.0554	100.0	Pass
11	0.0511	0.0511	100.0	Pass
12	0.0688	0.0688	100.0	Pass
13	0.0741	0.0741	100.0	Pass
14	0.0724	0.0724	100.0	Pass
15	0.0603	0.0603	100.0	Pass
16	0.0633	0.0633	100.0	Pass
17	0.0575	0.0575	100.0	Pass
18	0.0758	0.0758	100.0	Pass
19	0.0520	0.0520	100.0	Pass
20	0.0447	0.0447	100.0	Pass
21	0.0459	0.0459	100.0	Pass
22	0.0497	0.0497	100.0	Pass
23	0.0482	0.0482	100.0	Pass
24	0.0511	0.0511	100.0	Pass
25	0.0459	0.0459	100.0	Pass
26	0.0677	0.0677	100.0	Pass
27	0.0596	0.0596	100.0	Pass
28	0.0610	0.0610	100.0	Pass
29	0.0822	0.0822	100.0	Pass
30	0.0607	0.0607	100.0	Pass
31	0.0644	0.0644	100.0	Pass
Jun1	0.0539	0.0539	100.0	Pass
2	0.0655	0.0655	100.0	Pass
3	0.0641	0.0641	100.0	Pass
4	0.0534	0.0534	100.0	Pass
5	0.0762	0.0762	100.0	Pass
6	0.0427	0.0427	100.0	Pass
7	0.0511	0.0511	100.0	Pass
8	0.0655	0.0655	100.0	Pass
9	0.0533	0.0533	100.0	Pass
10	0.0476	0.0476	100.0	Pass
11	0.0376	0.0376	100.0	Pass
12	0.0395	0.0395	100.0	Pass

13	0.0610	0.0610	100.0	Pass
14	0.0347	0.0347	100.0	Pass
15	0.0527	0.0527	100.0	Pass
16	0.0317	0.0317	100.0	Pass
17	0.0352	0.0352	100.0	Pass
18	0.0290	0.0290	100.0	Pass
19	0.0264	0.0264	100.0	Pass
20	0.0267	0.0267	100.0	Pass
21	0.0283	0.0283	100.0	Pass
22	0.0190	0.0190	100.0	Pass
23	0.0642	0.0642	100.0	Pass
24	0.0317	0.0317	100.0	Pass
25	0.0353	0.0353	100.0	Pass
26	0.0226	0.0226	100.0	Pass
27	0.0182	0.0182	100.0	Pass
28	0.0179	0.0179	100.0	Pass
29	0.0218	0.0218	100.0	Pass
30	0.0490	0.0490	100.0	Pass
Jul1	0.0194	0.0194	100.0	Pass
2	0.0136	0.0136	100.0	Pass
3	0.0124	0.0124	100.0	Pass
4	0.0233	0.0233	100.0	Pass
5	0.0191	0.0191	100.0	Pass
6	0.0154	0.0154	100.0	Pass
7	0.0307	0.0307	100.0	Pass
8	0.0231	0.0231	100.0	Pass
9	0.0356	0.0356	100.0	Pass
10	0.0275	0.0275	100.0	Pass
11	0.0548	0.0548	100.0	Pass
12	0.0411	0.0411	100.0	Pass
13	0.0277	0.0277	100.0	Pass
14	0.0315	0.0315	100.0	Pass
15	0.0165	0.0165	100.0	Pass
16	0.0101	0.0101	100.0	Pass
17	0.0239	0.0239	100.0	Pass
18	0.0129	0.0129	100.0	Pass
19	0.0123	0.0123	100.0	Pass
20	0.0169	0.0169	100.0	Pass
21	0.0162	0.0162	100.0	Pass
22	0.0047	0.0047	100.0	Pass
23	0.0049	0.0049	100.0	Pass
24	0.0043	0.0043	100.0	Pass
25	0.0082	0.0082	100.0	Pass
26	0.0037	0.0037	100.0	Pass
27	0.0050	0.0050	100.0	Pass
28	0.0048	0.0048	100.0	Pass
29	0.0036	0.0036	100.0	Pass
30	0.0050	0.0050	100.0	Pass
31	0.0056	0.0056	100.0	Pass
Aug1	0.0226	0.0226	100.0	Pass
2	0.0119	0.0119	100.0	Pass
3	0.0066	0.0066	100.0	Pass
4	0.0050	0.0050	100.0	Pass
5	0.0277	0.0277	100.0	Pass
6	0.0223	0.0223	100.0	Pass
7	0.0107	0.0107	100.0	Pass
8	0.0086	0.0086	100.0	Pass

9	0.0020	0.0020	100.0	Pass
10	0.0042	0.0042	100.0	Pass
11	0.0163	0.0163	100.0	Pass
12	0.0152	0.0152	100.0	Pass
13	0.0196	0.0196	100.0	Pass
14	0.0152	0.0152	100.0	Pass
15	0.0151	0.0151	100.0	Pass
16	0.0116	0.0116	100.0	Pass
17	0.0172	0.0172	100.0	Pass
18	0.0317	0.0317	100.0	Pass
19	0.0150	0.0150	100.0	Pass
20	0.0267	0.0267	100.0	Pass
21	0.0284	0.0284	100.0	Pass
22	0.0519	0.0519	100.0	Pass
23	0.0555	0.0555	100.0	Pass
24	0.0588	0.0588	100.0	Pass
25	0.0313	0.0313	100.0	Pass
26	0.0522	0.0522	100.0	Pass
27	0.0582	0.0582	100.0	Pass
28	0.0623	0.0623	100.0	Pass
29	0.0426	0.0426	100.0	Pass
30	0.0545	0.0545	100.0	Pass
31	0.0908	0.0908	100.0	Pass
Sep1	0.0551	0.0551	100.0	Pass
2	0.0473	0.0473	100.0	Pass
3	0.0457	0.0457	100.0	Pass
4	0.0508	0.0508	100.0	Pass
5	0.0458	0.0458	100.0	Pass
6	0.0343	0.0343	100.0	Pass
7	0.0507	0.0507	100.0	Pass
8	0.0394	0.0394	100.0	Pass
9	0.0804	0.0804	100.0	Pass
10	0.0311	0.0311	100.0	Pass
11	0.0225	0.0225	100.0	Pass
12	0.0445	0.0445	100.0	Pass
13	0.0844	0.0844	100.0	Pass
14	0.0669	0.0669	100.0	Pass
15	0.0893	0.0893	100.0	Pass
16	0.1070	0.1070	100.0	Pass
17	0.1084	0.1084	100.0	Pass
18	0.1007	0.1007	100.0	Pass
19	0.1131	0.1131	100.0	Pass
20	0.0961	0.0961	100.0	Pass
21	0.1216	0.1216	100.0	Pass
22	0.1006	0.1006	100.0	Pass
23	0.0799	0.0799	100.0	Pass
24	0.0585	0.0585	100.0	Pass
25	0.0537	0.0537	100.0	Pass
26	0.0534	0.0534	100.0	Pass
27	0.0744	0.0744	100.0	Pass
28	0.0624	0.0624	100.0	Pass
29	0.0782	0.0782	100.0	Pass
30	0.0669	0.0669	100.0	Pass
Oct1	0.0514	0.0514	100.0	Pass
2	0.0905	0.0905	100.0	Pass
3	0.0892	0.0892	100.0	Pass
4	0.1142	0.1142	100.0	Pass

5	0.1223	0.1223	100.0	Pass
6	0.1332	0.1332	100.0	Pass
7	0.1746	0.1746	100.0	Pass
8	0.1574	0.1574	100.0	Pass
9	0.1303	0.1303	100.0	Pass
10	0.1081	0.1081	100.0	Pass
11	0.1623	0.1623	100.0	Pass
12	0.1311	0.1311	100.0	Pass
13	0.1590	0.1590	100.0	Pass
14	0.1188	0.1188	100.0	Pass
15	0.1229	0.1229	100.0	Pass
16	0.1575	0.1575	100.0	Pass
17	0.1490	0.1490	100.0	Pass
18	0.2262	0.2262	100.0	Pass
19	0.2874	0.2874	100.0	Pass
20	0.2550	0.2550	100.0	Pass
21	0.3046	0.3046	100.0	Pass
22	0.2225	0.2225	100.0	Pass
23	0.2978	0.2978	100.0	Pass
24	0.2767	0.2767	100.0	Pass
25	0.2552	0.2552	100.0	Pass
26	0.2909	0.2909	100.0	Pass
27	0.2691	0.2691	100.0	Pass
28	0.2478	0.2478	100.0	Pass
29	0.2197	0.2197	100.0	Pass
30	0.2778	0.2778	100.0	Pass
31	0.2614	0.2614	100.0	Pass
Nov1	0.3140	0.3140	100.0	Pass
2	0.3509	0.3509	100.0	Pass
3	0.3252	0.3252	100.0	Pass
4	0.3075	0.3075	100.0	Pass
5	0.3383	0.3383	100.0	Pass
6	0.3041	0.3041	100.0	Pass
7	0.2749	0.2749	100.0	Pass
8	0.3140	0.3140	100.0	Pass
9	0.3744	0.3744	100.0	Pass
10	0.3444	0.3444	100.0	Pass
11	0.3731	0.3731	100.0	Pass
12	0.3471	0.3471	100.0	Pass
13	0.2992	0.2992	100.0	Pass
14	0.3083	0.3083	100.0	Pass
15	0.3395	0.3395	100.0	Pass
16	0.3527	0.3527	100.0	Pass
17	0.3378	0.3378	100.0	Pass
18	0.4580	0.4580	100.0	Pass
19	0.4412	0.4412	100.0	Pass
20	0.3340	0.3340	100.0	Pass
21	0.4413	0.4413	100.0	Pass
22	0.4963	0.4963	100.0	Pass
23	0.4396	0.4396	100.0	Pass
24	0.4756	0.4756	100.0	Pass
25	0.3652	0.3652	100.0	Pass
26	0.2956	0.2956	100.0	Pass
27	0.3083	0.3083	100.0	Pass
28	0.2961	0.2961	100.0	Pass
29	0.4425	0.4425	100.0	Pass
30	0.4040	0.4040	100.0	Pass

Dec1	0.4258	0.4258	100.0	Pass
2	0.4304	0.4304	100.0	Pass
3	0.3120	0.3120	100.0	Pass
4	0.3087	0.3087	100.0	Pass
5	0.2809	0.2809	100.0	Pass
6	0.2346	0.2346	100.0	Pass
7	0.2976	0.2976	100.0	Pass
8	0.3715	0.3715	100.0	Pass
9	0.3919	0.3919	100.0	Pass
10	0.4310	0.4310	100.0	Pass
11	0.3381	0.3381	100.0	Pass
12	0.3465	0.3465	100.0	Pass
13	0.4608	0.4608	100.0	Pass
14	0.3884	0.3884	100.0	Pass
15	0.4414	0.4414	100.0	Pass
16	0.3525	0.3525	100.0	Pass
17	0.3724	0.3724	100.0	Pass
18	0.3239	0.3239	100.0	Pass
19	0.3441	0.3441	100.0	Pass
20	0.3566	0.3566	100.0	Pass
21	0.3929	0.3929	100.0	Pass
22	0.3796	0.3796	100.0	Pass
23	0.4062	0.4062	100.0	Pass
24	0.4371	0.4371	100.0	Pass
25	0.4183	0.4183	100.0	Pass
26	0.3889	0.3889	100.0	Pass
27	0.2804	0.2804	100.0	Pass
28	0.3658	0.3658	100.0	Pass
29	0.2888	0.2888	100.0	Pass
30	0.2760	0.2760	100.0	Pass
31	0.4083	0.4083	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #9

Total Pervious Area:0
Total Impervious Area:0.55

Mitigated Landuse Totals for POC #9

Total Pervious Area:0
Total Impervious Area:0.55

Flow Frequency Return Periods for Predeveloped. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.402568
5 year	0.474137
10 year	0.513601
25 year	0.55701
50 year	0.585683
100 year	0.611834

Flow Frequency Return Periods for Mitigated. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.402568
5 year	0.474137
10 year	0.513601
25 year	0.55701
50 year	0.585683
100 year	0.611834

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #9

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.413	0.413
1957	0.526	0.526
1958	0.413	0.413
1959	0.397	0.397
1960	0.410	0.410
1961	0.355	0.355
1962	0.541	0.541
1963	0.500	0.500
1964	0.443	0.443
1965	0.435	0.435
1966	0.421	0.421
1967	0.278	0.278
1968	0.410	0.410
1969	0.385	0.385
1970	0.382	0.382
1971	0.555	0.555
1972	0.465	0.465
1973	0.449	0.449
1974	0.418	0.418
1975	0.377	0.377
1976	0.458	0.458
1977	0.338	0.338
1978	0.587	0.587
1979	0.366	0.366
1980	0.342	0.342
1981	0.437	0.437
1982	0.504	0.504
1983	0.397	0.397
1984	0.363	0.363
1985	0.291	0.291
1986	0.440	0.440
1987	0.309	0.309
1988	0.464	0.464
1989	0.396	0.396
1990	0.502	0.502
1991	0.353	0.353
1992	0.275	0.275
1993	0.307	0.307
1994	0.374	0.374
1995	0.386	0.386
1996	0.465	0.465
1997	0.438	0.438
1998	0.287	0.287

1999	0.346	0.346
2000	0.329	0.329
2001	0.322	0.322
2002	0.511	0.511
2003	0.527	0.527
2004	0.495	0.495
2005	0.395	0.395
2006	0.402	0.402
2007	0.469	0.469
2008	0.258	0.258
2009	0.246	0.246

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #9

Rank	Predeveloped	Mitigated
1	0.5871	0.5871
2	0.5552	0.5552
3	0.5409	0.5409
4	0.5266	0.5266
5	0.5258	0.5258
6	0.5111	0.5111
7	0.5036	0.5036
8	0.5016	0.5016
9	0.5000	0.5000
10	0.4946	0.4946
11	0.4694	0.4694
12	0.4652	0.4652
13	0.4647	0.4647
14	0.4639	0.4639
15	0.4580	0.4580
16	0.4487	0.4487
17	0.4430	0.4430
18	0.4397	0.4397
19	0.4381	0.4381
20	0.4373	0.4373
21	0.4352	0.4352
22	0.4206	0.4206
23	0.4182	0.4182
24	0.4135	0.4135
25	0.4127	0.4127
26	0.4103	0.4103
27	0.4103	0.4103
28	0.4016	0.4016
29	0.3969	0.3969
30	0.3966	0.3966
31	0.3961	0.3961
32	0.3954	0.3954
33	0.3856	0.3856
34	0.3852	0.3852
35	0.3819	0.3819
36	0.3770	0.3770
37	0.3737	0.3737
38	0.3661	0.3661
39	0.3630	0.3630
40	0.3547	0.3547
41	0.3532	0.3532

42	0.3465	0.3465
43	0.3418	0.3418
44	0.3383	0.3383
45	0.3285	0.3285
46	0.3224	0.3224
47	0.3087	0.3087
48	0.3070	0.3070
49	0.2905	0.2905
50	0.2868	0.2868
51	0.2777	0.2777
52	0.2749	0.2749
53	0.2581	0.2581
54	0.2460	0.2460

Stream Protection Duration

POC #9

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.2013	1218	1218	100	Pass
0.2052	1132	1132	100	Pass
0.2090	1060	1060	100	Pass
0.2129	999	999	100	Pass
0.2168	937	937	100	Pass
0.2207	866	866	100	Pass
0.2246	804	804	100	Pass
0.2285	741	741	100	Pass
0.2323	686	686	100	Pass
0.2362	635	635	100	Pass
0.2401	580	580	100	Pass
0.2440	546	546	100	Pass
0.2479	510	510	100	Pass
0.2518	472	472	100	Pass
0.2556	430	430	100	Pass
0.2595	398	398	100	Pass
0.2634	370	370	100	Pass
0.2673	348	348	100	Pass
0.2712	326	326	100	Pass
0.2751	305	305	100	Pass
0.2789	294	294	100	Pass
0.2828	273	273	100	Pass
0.2867	260	260	100	Pass
0.2906	239	239	100	Pass
0.2945	228	228	100	Pass
0.2984	217	217	100	Pass
0.3022	211	211	100	Pass
0.3061	196	196	100	Pass
0.3100	189	189	100	Pass
0.3139	182	182	100	Pass
0.3178	171	171	100	Pass
0.3217	161	161	100	Pass
0.3255	155	155	100	Pass
0.3294	142	142	100	Pass
0.3333	131	131	100	Pass

0.3372	123	123	100	Pass
0.3411	115	115	100	Pass
0.3449	110	110	100	Pass
0.3488	107	107	100	Pass
0.3527	103	103	100	Pass
0.3566	97	97	100	Pass
0.3605	95	95	100	Pass
0.3644	86	86	100	Pass
0.3682	80	80	100	Pass
0.3721	76	76	100	Pass
0.3760	71	71	100	Pass
0.3799	69	69	100	Pass
0.3838	63	63	100	Pass
0.3877	60	60	100	Pass
0.3915	56	56	100	Pass
0.3954	56	56	100	Pass
0.3993	50	50	100	Pass
0.4032	48	48	100	Pass
0.4071	47	47	100	Pass
0.4110	47	47	100	Pass
0.4148	40	40	100	Pass
0.4187	37	37	100	Pass
0.4226	34	34	100	Pass
0.4265	34	34	100	Pass
0.4304	33	33	100	Pass
0.4343	32	32	100	Pass
0.4381	30	30	100	Pass
0.4420	27	27	100	Pass
0.4459	26	26	100	Pass
0.4498	24	24	100	Pass
0.4537	24	24	100	Pass
0.4576	24	24	100	Pass
0.4614	23	23	100	Pass
0.4653	18	18	100	Pass
0.4692	17	17	100	Pass
0.4731	15	15	100	Pass
0.4770	14	14	100	Pass
0.4808	13	13	100	Pass
0.4847	12	12	100	Pass
0.4886	12	12	100	Pass
0.4925	12	12	100	Pass
0.4964	11	11	100	Pass
0.5003	9	9	100	Pass
0.5041	7	7	100	Pass
0.5080	7	7	100	Pass
0.5119	7	7	100	Pass
0.5158	6	6	100	Pass
0.5197	6	6	100	Pass
0.5236	5	5	100	Pass
0.5274	3	3	100	Pass
0.5313	3	3	100	Pass
0.5352	3	3	100	Pass
0.5391	3	3	100	Pass
0.5430	2	2	100	Pass
0.5469	2	2	100	Pass
0.5507	2	2	100	Pass
0.5546	2	2	100	Pass

0.5585	1	1	100	Pass
0.5624	1	1	100	Pass
0.5663	1	1	100	Pass
0.5702	1	1	100	Pass
0.5740	1	1	100	Pass
0.5779	1	1	100	Pass
0.5818	1	1	100	Pass
0.5857	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #9

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 9

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	24.2458	24.2458	100.0	Pass
Feb	18.5119	18.5119	100.0	Pass
Mar	16.5222	16.5222	100.0	Pass
Apr	9.4006	9.4006	100.0	Pass
May	5.3005	5.3005	100.0	Pass
Jun	3.5964	3.5964	100.0	Pass
Jul	1.8158	1.8158	100.0	Pass
Aug	2.7315	2.7315	100.0	Pass
Sep	6.0054	6.0054	100.0	Pass
Oct	14.1918	14.1918	100.0	Pass
Nov	23.3012	23.3012	100.0	Pass
Dec	23.3682	23.3682	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.7809	0.7809	100.0	Pass
2	0.5994	0.5994	100.0	Pass
3	0.7886	0.7886	100.0	Pass
4	0.9427	0.9427	100.0	Pass
5	0.6503	0.6503	100.0	Pass
6	1.0341	1.0341	100.0	Pass
7	0.7614	0.7614	100.0	Pass
8	0.7747	0.7747	100.0	Pass
9	0.8421	0.8421	100.0	Pass
10	0.8032	0.8032	100.0	Pass
11	1.0000	1.0000	100.0	Pass
12	0.7573	0.7573	100.0	Pass
13	0.9887	0.9887	100.0	Pass
14	0.9745	0.9745	100.0	Pass
15	0.8782	0.8782	100.0	Pass
16	0.6976	0.6976	100.0	Pass
17	0.6766	0.6766	100.0	Pass
18	0.5972	0.5972	100.0	Pass
19	0.6093	0.6093	100.0	Pass
20	0.3791	0.3791	100.0	Pass

21	0.8239	0.8239	100.0	Pass
22	0.9658	0.9658	100.0	Pass
23	1.0663	1.0663	100.0	Pass
24	0.6876	0.6876	100.0	Pass
25	0.5829	0.5829	100.0	Pass
26	0.5271	0.5271	100.0	Pass
27	0.7044	0.7044	100.0	Pass
28	0.9033	0.9033	100.0	Pass
29	0.6612	0.6612	100.0	Pass
30	0.8088	0.8088	100.0	Pass
31	0.4498	0.4498	100.0	Pass
Feb1	0.5389	0.5389	100.0	Pass
2	0.4990	0.4990	100.0	Pass
3	0.4449	0.4449	100.0	Pass
4	0.4120	0.4120	100.0	Pass
5	0.8065	0.8065	100.0	Pass
6	0.3623	0.3623	100.0	Pass
7	0.5790	0.5790	100.0	Pass
8	0.4238	0.4238	100.0	Pass
9	0.5336	0.5336	100.0	Pass
10	0.7195	0.7195	100.0	Pass
11	0.9362	0.9362	100.0	Pass
12	0.7012	0.7012	100.0	Pass
13	0.7712	0.7712	100.0	Pass
14	1.1113	1.1113	100.0	Pass
15	0.7563	0.7563	100.0	Pass
16	1.0386	1.0386	100.0	Pass
17	0.8898	0.8898	100.0	Pass
18	0.6727	0.6727	100.0	Pass
19	0.5906	0.5906	100.0	Pass
20	0.5777	0.5777	100.0	Pass
21	0.4737	0.4737	100.0	Pass
22	0.7260	0.7260	100.0	Pass
23	0.6810	0.6810	100.0	Pass
24	0.7519	0.7519	100.0	Pass
25	0.6601	0.6601	100.0	Pass
26	0.6438	0.6438	100.0	Pass
27	0.5625	0.5625	100.0	Pass
28	0.7229	0.7229	100.0	Pass
29	0.5482	0.5482	100.0	Pass
Mar1	0.5460	0.5460	100.0	Pass
2	0.4380	0.4380	100.0	Pass
3	0.6482	0.6482	100.0	Pass
4	0.6731	0.6731	100.0	Pass
5	0.5154	0.5154	100.0	Pass
6	0.6617	0.6617	100.0	Pass
7	0.6610	0.6610	100.0	Pass
8	0.6277	0.6277	100.0	Pass
9	0.6298	0.6298	100.0	Pass
10	0.5374	0.5374	100.0	Pass
11	0.5932	0.5932	100.0	Pass
12	0.5240	0.5240	100.0	Pass
13	0.6462	0.6462	100.0	Pass
14	0.4968	0.4968	100.0	Pass
15	0.4015	0.4015	100.0	Pass
16	0.3955	0.3955	100.0	Pass
17	0.5468	0.5468	100.0	Pass

18	0.3174	0.3174	100.0	Pass
19	0.5110	0.5110	100.0	Pass
20	0.3996	0.3996	100.0	Pass
21	0.7053	0.7053	100.0	Pass
22	0.7841	0.7841	100.0	Pass
23	0.6154	0.6154	100.0	Pass
24	0.3699	0.3699	100.0	Pass
25	0.6308	0.6308	100.0	Pass
26	0.4322	0.4322	100.0	Pass
27	0.4299	0.4299	100.0	Pass
28	0.4787	0.4787	100.0	Pass
29	0.4419	0.4419	100.0	Pass
30	0.3187	0.3187	100.0	Pass
31	0.2582	0.2582	100.0	Pass
Apr1	0.2854	0.2854	100.0	Pass
2	0.3277	0.3277	100.0	Pass
3	0.4700	0.4700	100.0	Pass
4	0.4084	0.4084	100.0	Pass
5	0.4306	0.4306	100.0	Pass
6	0.2162	0.2162	100.0	Pass
7	0.4016	0.4016	100.0	Pass
8	0.3922	0.3922	100.0	Pass
9	0.3530	0.3530	100.0	Pass
10	0.3387	0.3387	100.0	Pass
11	0.4954	0.4954	100.0	Pass
12	0.4050	0.4050	100.0	Pass
13	0.4303	0.4303	100.0	Pass
14	0.3566	0.3566	100.0	Pass
15	0.3816	0.3816	100.0	Pass
16	0.1977	0.1977	100.0	Pass
17	0.3006	0.3006	100.0	Pass
18	0.3495	0.3495	100.0	Pass
19	0.1685	0.1685	100.0	Pass
20	0.1761	0.1761	100.0	Pass
21	0.3176	0.3176	100.0	Pass
22	0.2600	0.2600	100.0	Pass
23	0.2201	0.2201	100.0	Pass
24	0.1748	0.1748	100.0	Pass
25	0.2221	0.2221	100.0	Pass
26	0.3707	0.3707	100.0	Pass
27	0.2782	0.2782	100.0	Pass
28	0.2885	0.2885	100.0	Pass
29	0.1267	0.1267	100.0	Pass
30	0.1938	0.1938	100.0	Pass
May1	0.3133	0.3133	100.0	Pass
2	0.2111	0.2111	100.0	Pass
3	0.2382	0.2382	100.0	Pass
4	0.1776	0.1776	100.0	Pass
5	0.1751	0.1751	100.0	Pass
6	0.1494	0.1494	100.0	Pass
7	0.2035	0.2035	100.0	Pass
8	0.1173	0.1173	100.0	Pass
9	0.1768	0.1768	100.0	Pass
10	0.1413	0.1413	100.0	Pass
11	0.1342	0.1342	100.0	Pass
12	0.1916	0.1916	100.0	Pass
13	0.2055	0.2055	100.0	Pass

14	0.2001	0.2001	100.0	Pass
15	0.1241	0.1241	100.0	Pass
16	0.1757	0.1757	100.0	Pass
17	0.1375	0.1375	100.0	Pass
18	0.2389	0.2389	100.0	Pass
19	0.1161	0.1161	100.0	Pass
20	0.1194	0.1194	100.0	Pass
21	0.1235	0.1235	100.0	Pass
22	0.1530	0.1530	100.0	Pass
23	0.1304	0.1304	100.0	Pass
24	0.1375	0.1375	100.0	Pass
25	0.1125	0.1125	100.0	Pass
26	0.2056	0.2056	100.0	Pass
27	0.1548	0.1548	100.0	Pass
28	0.1697	0.1697	100.0	Pass
29	0.2307	0.2307	100.0	Pass
30	0.1429	0.1429	100.0	Pass
31	0.1574	0.1574	100.0	Pass
Jun1	0.1143	0.1143	100.0	Pass
2	0.2084	0.2084	100.0	Pass
3	0.1932	0.1932	100.0	Pass
4	0.1378	0.1378	100.0	Pass
5	0.2355	0.2355	100.0	Pass
6	0.0765	0.0765	100.0	Pass
7	0.1295	0.1295	100.0	Pass
8	0.1916	0.1916	100.0	Pass
9	0.1409	0.1409	100.0	Pass
10	0.1376	0.1376	100.0	Pass
11	0.0965	0.0965	100.0	Pass
12	0.1247	0.1247	100.0	Pass
13	0.1979	0.1979	100.0	Pass
14	0.0728	0.0728	100.0	Pass
15	0.1600	0.1600	100.0	Pass
16	0.0621	0.0621	100.0	Pass
17	0.0956	0.0956	100.0	Pass
18	0.0607	0.0607	100.0	Pass
19	0.0809	0.0809	100.0	Pass
20	0.0919	0.0919	100.0	Pass
21	0.0850	0.0850	100.0	Pass
22	0.0458	0.0458	100.0	Pass
23	0.2585	0.2585	100.0	Pass
24	0.0545	0.0545	100.0	Pass
25	0.1101	0.1101	100.0	Pass
26	0.0656	0.0656	100.0	Pass
27	0.0621	0.0621	100.0	Pass
28	0.0645	0.0645	100.0	Pass
29	0.0846	0.0846	100.0	Pass
30	0.1775	0.1775	100.0	Pass
Jul1	0.0397	0.0397	100.0	Pass
2	0.0374	0.0374	100.0	Pass
3	0.0435	0.0435	100.0	Pass
4	0.1093	0.1093	100.0	Pass
5	0.0787	0.0787	100.0	Pass
6	0.0598	0.0598	100.0	Pass
7	0.1121	0.1121	100.0	Pass
8	0.0593	0.0593	100.0	Pass
9	0.1332	0.1332	100.0	Pass

10	0.0829	0.0829	100.0	Pass
11	0.1664	0.1664	100.0	Pass
12	0.0704	0.0704	100.0	Pass
13	0.0576	0.0576	100.0	Pass
14	0.0967	0.0967	100.0	Pass
15	0.0379	0.0379	100.0	Pass
16	0.0239	0.0239	100.0	Pass
17	0.0854	0.0854	100.0	Pass
18	0.0249	0.0249	100.0	Pass
19	0.0364	0.0364	100.0	Pass
20	0.0642	0.0642	100.0	Pass
21	0.0484	0.0484	100.0	Pass
22	0.0015	0.0015	100.0	Pass
23	0.0141	0.0141	100.0	Pass
24	0.0167	0.0167	100.0	Pass
25	0.0393	0.0393	100.0	Pass
26	0.0173	0.0173	100.0	Pass
27	0.0246	0.0246	100.0	Pass
28	0.0206	0.0206	100.0	Pass
29	0.0130	0.0130	100.0	Pass
30	0.0232	0.0232	100.0	Pass
31	0.0258	0.0258	100.0	Pass
Aug1	0.1052	0.1052	100.0	Pass
2	0.0343	0.0343	100.0	Pass
3	0.0130	0.0130	100.0	Pass
4	0.0132	0.0132	100.0	Pass
5	0.1180	0.1180	100.0	Pass
6	0.0783	0.0783	100.0	Pass
7	0.0265	0.0265	100.0	Pass
8	0.0286	0.0286	100.0	Pass
9	0.0020	0.0020	100.0	Pass
10	0.0161	0.0161	100.0	Pass
11	0.0767	0.0767	100.0	Pass
12	0.0665	0.0665	100.0	Pass
13	0.0816	0.0816	100.0	Pass
14	0.0470	0.0470	100.0	Pass
15	0.0417	0.0417	100.0	Pass
16	0.0388	0.0388	100.0	Pass
17	0.0778	0.0778	100.0	Pass
18	0.1460	0.1460	100.0	Pass
19	0.0367	0.0367	100.0	Pass
20	0.1135	0.1135	100.0	Pass
21	0.1001	0.1001	100.0	Pass
22	0.1981	0.1981	100.0	Pass
23	0.1786	0.1786	100.0	Pass
24	0.1437	0.1437	100.0	Pass
25	0.0543	0.0543	100.0	Pass
26	0.1881	0.1881	100.0	Pass
27	0.1875	0.1875	100.0	Pass
28	0.1829	0.1829	100.0	Pass
29	0.1161	0.1161	100.0	Pass
30	0.1948	0.1948	100.0	Pass
31	0.3032	0.3032	100.0	Pass
Sep1	0.1024	0.1024	100.0	Pass
2	0.1112	0.1112	100.0	Pass
3	0.1265	0.1265	100.0	Pass
4	0.1639	0.1639	100.0	Pass

5	0.1374	0.1374	100.0	Pass
6	0.0946	0.0946	100.0	Pass
7	0.1921	0.1921	100.0	Pass
8	0.1169	0.1169	100.0	Pass
9	0.3145	0.3145	100.0	Pass
10	0.0643	0.0643	100.0	Pass
11	0.0594	0.0594	100.0	Pass
12	0.1685	0.1685	100.0	Pass
13	0.3053	0.3053	100.0	Pass
14	0.1857	0.1857	100.0	Pass
15	0.2917	0.2917	100.0	Pass
16	0.2961	0.2961	100.0	Pass
17	0.3297	0.3297	100.0	Pass
18	0.2931	0.2931	100.0	Pass
19	0.3093	0.3093	100.0	Pass
20	0.2138	0.2138	100.0	Pass
21	0.3048	0.3048	100.0	Pass
22	0.2410	0.2410	100.0	Pass
23	0.1936	0.1936	100.0	Pass
24	0.1375	0.1375	100.0	Pass
25	0.1541	0.1541	100.0	Pass
26	0.1546	0.1546	100.0	Pass
27	0.2087	0.2087	100.0	Pass
28	0.1849	0.1849	100.0	Pass
29	0.2472	0.2472	100.0	Pass
30	0.1694	0.1694	100.0	Pass
Oct1	0.1188	0.1188	100.0	Pass
2	0.3243	0.3243	100.0	Pass
3	0.2826	0.2826	100.0	Pass
4	0.3427	0.3427	100.0	Pass
5	0.3628	0.3628	100.0	Pass
6	0.3999	0.3999	100.0	Pass
7	0.5095	0.5095	100.0	Pass
8	0.4016	0.4016	100.0	Pass
9	0.3061	0.3061	100.0	Pass
10	0.2499	0.2499	100.0	Pass
11	0.5056	0.5056	100.0	Pass
12	0.3229	0.3229	100.0	Pass
13	0.4687	0.4687	100.0	Pass
14	0.2446	0.2446	100.0	Pass
15	0.3059	0.3059	100.0	Pass
16	0.4120	0.4120	100.0	Pass
17	0.3744	0.3744	100.0	Pass
18	0.6092	0.6092	100.0	Pass
19	0.7417	0.7417	100.0	Pass
20	0.6327	0.6327	100.0	Pass
21	0.7669	0.7669	100.0	Pass
22	0.4162	0.4162	100.0	Pass
23	0.7449	0.7449	100.0	Pass
24	0.6410	0.6410	100.0	Pass
25	0.5660	0.5660	100.0	Pass
26	0.7021	0.7021	100.0	Pass
27	0.5780	0.5780	100.0	Pass
28	0.5405	0.5405	100.0	Pass
29	0.4494	0.4494	100.0	Pass
30	0.7042	0.7042	100.0	Pass
31	0.5690	0.5690	100.0	Pass

Nov1	0.7303	0.7303	100.0	Pass
2	0.9052	0.9052	100.0	Pass
3	0.6607	0.6607	100.0	Pass
4	0.6881	0.6881	100.0	Pass
5	0.7635	0.7635	100.0	Pass
6	0.6178	0.6178	100.0	Pass
7	0.5614	0.5614	100.0	Pass
8	0.7594	0.7594	100.0	Pass
9	0.8936	0.8936	100.0	Pass
10	0.7451	0.7451	100.0	Pass
11	0.8428	0.8428	100.0	Pass
12	0.7778	0.7778	100.0	Pass
13	0.5499	0.5499	100.0	Pass
14	0.6822	0.6822	100.0	Pass
15	0.7681	0.7681	100.0	Pass
16	0.8066	0.8066	100.0	Pass
17	0.7223	0.7223	100.0	Pass
18	1.0950	1.0950	100.0	Pass
19	0.9482	0.9482	100.0	Pass
20	0.5909	0.5909	100.0	Pass
21	1.0063	1.0063	100.0	Pass
22	1.2109	1.2109	100.0	Pass
23	0.8665	0.8665	100.0	Pass
24	1.0178	1.0178	100.0	Pass
25	0.6256	0.6256	100.0	Pass
26	0.5077	0.5077	100.0	Pass
27	0.6655	0.6655	100.0	Pass
28	0.6342	0.6342	100.0	Pass
29	1.0924	1.0924	100.0	Pass
30	0.8266	0.8266	100.0	Pass
Dec1	0.9311	0.9311	100.0	Pass
2	0.8838	0.8838	100.0	Pass
3	0.5362	0.5362	100.0	Pass
4	0.6290	0.6290	100.0	Pass
5	0.5251	0.5251	100.0	Pass
6	0.4650	0.4650	100.0	Pass
7	0.7058	0.7058	100.0	Pass
8	0.8887	0.8887	100.0	Pass
9	0.8576	0.8576	100.0	Pass
10	0.9205	0.9205	100.0	Pass
11	0.6493	0.6493	100.0	Pass
12	0.7233	0.7233	100.0	Pass
13	1.1216	1.1216	100.0	Pass
14	0.7160	0.7160	100.0	Pass
15	0.9977	0.9977	100.0	Pass
16	0.6214	0.6214	100.0	Pass
17	0.7873	0.7873	100.0	Pass
18	0.6324	0.6324	100.0	Pass
19	0.7746	0.7746	100.0	Pass
20	0.7394	0.7394	100.0	Pass
21	0.8142	0.8142	100.0	Pass
22	0.8060	0.8060	100.0	Pass
23	0.8837	0.8837	100.0	Pass
24	0.9909	0.9909	100.0	Pass
25	0.8220	0.8220	100.0	Pass
26	0.7452	0.7452	100.0	Pass
27	0.4820	0.4820	100.0	Pass

28	0.8338	0.8338	100.0	Pass
29	0.5072	0.5072	100.0	Pass
30	0.5546	0.5546	100.0	Pass
31	0.9827	0.9827	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #10

Total Pervious Area:0

Total Impervious Area:0.618

Mitigated Landuse Totals for POC #10

Total Pervious Area:0

Total Impervious Area:0.618

Flow Frequency Return Periods for Predeveloped. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.45234
5 year	0.532757
10 year	0.577101
25 year	0.625877
50 year	0.658094
100 year	0.687479

Flow Frequency Return Periods for Mitigated. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.45234
5 year	0.532757
10 year	0.577101
25 year	0.625877
50 year	0.658094
100 year	0.687479

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #10

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.465	0.465
1957	0.591	0.591
1958	0.464	0.464
1959	0.446	0.446
1960	0.461	0.461
1961	0.399	0.399
1962	0.608	0.608
1963	0.562	0.562
1964	0.498	0.498
1965	0.489	0.489
1966	0.473	0.473
1967	0.312	0.312
1968	0.461	0.461

1969	0.433	0.433
1970	0.429	0.429
1971	0.624	0.624
1972	0.523	0.523
1973	0.504	0.504
1974	0.470	0.470
1975	0.424	0.424
1976	0.515	0.515
1977	0.380	0.380
1978	0.660	0.660
1979	0.411	0.411
1980	0.384	0.384
1981	0.491	0.491
1982	0.566	0.566
1983	0.446	0.446
1984	0.408	0.408
1985	0.326	0.326
1986	0.494	0.494
1987	0.347	0.347
1988	0.521	0.521
1989	0.445	0.445
1990	0.564	0.564
1991	0.397	0.397
1992	0.309	0.309
1993	0.345	0.345
1994	0.420	0.420
1995	0.433	0.433
1996	0.522	0.522
1997	0.492	0.492
1998	0.322	0.322
1999	0.389	0.389
2000	0.369	0.369
2001	0.362	0.362
2002	0.574	0.574
2003	0.592	0.592
2004	0.556	0.556
2005	0.444	0.444
2006	0.451	0.451
2007	0.527	0.527
2008	0.290	0.290
2009	0.276	0.276

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #10

Rank	Predeveloped	Mitigated
1	0.6597	0.6597
2	0.6239	0.6239
3	0.6078	0.6078
4	0.5917	0.5917
5	0.5908	0.5908
6	0.5743	0.5743
7	0.5658	0.5658
8	0.5636	0.5636
9	0.5618	0.5618
10	0.5558	0.5558
11	0.5274	0.5274

12	0.5227	0.5227
13	0.5221	0.5221
14	0.5212	0.5212
15	0.5146	0.5146
16	0.5041	0.5041
17	0.4978	0.4978
18	0.4940	0.4940
19	0.4922	0.4922
20	0.4914	0.4914
21	0.4890	0.4890
22	0.4726	0.4726
23	0.4699	0.4699
24	0.4646	0.4646
25	0.4637	0.4637
26	0.4611	0.4611
27	0.4610	0.4610
28	0.4512	0.4512
29	0.4460	0.4460
30	0.4457	0.4457
31	0.4451	0.4451
32	0.4443	0.4443
33	0.4332	0.4332
34	0.4328	0.4328
35	0.4292	0.4292
36	0.4236	0.4236
37	0.4199	0.4199
38	0.4114	0.4114
39	0.4079	0.4079
40	0.3985	0.3985
41	0.3969	0.3969
42	0.3893	0.3893
43	0.3840	0.3840
44	0.3801	0.3801
45	0.3691	0.3691
46	0.3622	0.3622
47	0.3468	0.3468
48	0.3449	0.3449
49	0.3265	0.3265
50	0.3223	0.3223
51	0.3120	0.3120
52	0.3089	0.3089
53	0.2901	0.2901
54	0.2764	0.2764

Stream Protection Duration

POC #10

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.2262	1215	1215	100	Pass
0.2305	1138	1138	100	Pass
0.2349	1070	1070	100	Pass
0.2393	989	989	100	Pass
0.2436	932	932	100	Pass

0.2480	867	867	100	Pass
0.2523	802	802	100	Pass
0.2567	743	743	100	Pass
0.2611	681	681	100	Pass
0.2654	636	636	100	Pass
0.2698	584	584	100	Pass
0.2742	539	539	100	Pass
0.2785	506	506	100	Pass
0.2829	473	473	100	Pass
0.2873	425	425	100	Pass
0.2916	398	398	100	Pass
0.2960	375	375	100	Pass
0.3003	348	348	100	Pass
0.3047	329	329	100	Pass
0.3091	305	305	100	Pass
0.3134	288	288	100	Pass
0.3178	273	273	100	Pass
0.3222	258	258	100	Pass
0.3265	237	237	100	Pass
0.3309	229	229	100	Pass
0.3352	217	217	100	Pass
0.3396	211	211	100	Pass
0.3440	196	196	100	Pass
0.3483	189	189	100	Pass
0.3527	181	181	100	Pass
0.3571	169	169	100	Pass
0.3614	161	161	100	Pass
0.3658	155	155	100	Pass
0.3701	141	141	100	Pass
0.3745	132	132	100	Pass
0.3789	124	124	100	Pass
0.3832	115	115	100	Pass
0.3876	110	110	100	Pass
0.3920	107	107	100	Pass
0.3963	102	102	100	Pass
0.4007	97	97	100	Pass
0.4050	94	94	100	Pass
0.4094	86	86	100	Pass
0.4138	81	81	100	Pass
0.4181	76	76	100	Pass
0.4225	72	72	100	Pass
0.4269	69	69	100	Pass
0.4312	63	63	100	Pass
0.4356	60	60	100	Pass
0.4400	57	57	100	Pass
0.4443	56	56	100	Pass
0.4487	50	50	100	Pass
0.4530	48	48	100	Pass
0.4574	47	47	100	Pass
0.4618	46	46	100	Pass
0.4661	39	39	100	Pass
0.4705	36	36	100	Pass
0.4749	34	34	100	Pass
0.4792	34	34	100	Pass
0.4836	33	33	100	Pass
0.4879	32	32	100	Pass
0.4923	30	30	100	Pass

0.4967	27	27	100	Pass
0.5010	26	26	100	Pass
0.5054	24	24	100	Pass
0.5098	24	24	100	Pass
0.5141	24	24	100	Pass
0.5185	23	23	100	Pass
0.5228	19	19	100	Pass
0.5272	17	17	100	Pass
0.5316	16	16	100	Pass
0.5359	14	14	100	Pass
0.5403	13	13	100	Pass
0.5447	12	12	100	Pass
0.5490	12	12	100	Pass
0.5534	12	12	100	Pass
0.5577	11	11	100	Pass
0.5621	9	9	100	Pass
0.5665	7	7	100	Pass
0.5708	7	7	100	Pass
0.5752	6	6	100	Pass
0.5796	6	6	100	Pass
0.5839	6	6	100	Pass
0.5883	5	5	100	Pass
0.5927	3	3	100	Pass
0.5970	3	3	100	Pass
0.6014	3	3	100	Pass
0.6057	3	3	100	Pass
0.6101	2	2	100	Pass
0.6145	2	2	100	Pass
0.6188	2	2	100	Pass
0.6232	2	2	100	Pass
0.6276	1	1	100	Pass
0.6319	1	1	100	Pass
0.6363	1	1	100	Pass
0.6406	1	1	100	Pass
0.6450	1	1	100	Pass
0.6494	1	1	100	Pass
0.6537	1	1	100	Pass
0.6581	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #10
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 10
Average Annual Volume (acft)
Month Predevel Mitigated Percent Pass/Fail

Jan	27.2436	27.2436	100.0	Pass
Feb	20.8001	20.8001	100.0	Pass
Mar	18.5652	18.5652	100.0	Pass
Apr	10.5626	10.5626	100.0	Pass

May	5.9558	5.9558	100.0	Pass
Jun	4.0411	4.0411	100.0	Pass
Jul	2.0404	2.0404	100.0	Pass
Aug	3.0692	3.0692	100.0	Pass
Sep	6.7478	6.7478	100.0	Pass
Oct	15.9465	15.9465	100.0	Pass
Nov	26.1819	26.1819	100.0	Pass
Dec	26.2575	26.2575	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.8775	0.8775	100.0	Pass
2	0.6735	0.6735	100.0	Pass
3	0.8861	0.8861	100.0	Pass
4	1.0593	1.0593	100.0	Pass
5	0.7307	0.7307	100.0	Pass
6	1.1619	1.1619	100.0	Pass
7	0.8555	0.8555	100.0	Pass
8	0.8705	0.8705	100.0	Pass
9	0.9462	0.9462	100.0	Pass
10	0.9025	0.9025	100.0	Pass
11	1.1236	1.1236	100.0	Pass
12	0.8510	0.8510	100.0	Pass
13	1.1109	1.1109	100.0	Pass
14	1.0950	1.0950	100.0	Pass
15	0.9868	0.9868	100.0	Pass
16	0.7838	0.7838	100.0	Pass
17	0.7602	0.7602	100.0	Pass
18	0.6710	0.6710	100.0	Pass
19	0.6847	0.6847	100.0	Pass
20	0.4259	0.4259	100.0	Pass
21	0.9258	0.9258	100.0	Pass
22	1.0852	1.0852	100.0	Pass
23	1.1981	1.1981	100.0	Pass
24	0.7726	0.7726	100.0	Pass
25	0.6550	0.6550	100.0	Pass
26	0.5923	0.5923	100.0	Pass
27	0.7915	0.7915	100.0	Pass
28	1.0149	1.0149	100.0	Pass
29	0.7430	0.7430	100.0	Pass
30	0.9087	0.9087	100.0	Pass
31	0.5055	0.5055	100.0	Pass
Feb1	0.6055	0.6055	100.0	Pass
2	0.5607	0.5607	100.0	Pass
3	0.4999	0.4999	100.0	Pass
4	0.4629	0.4629	100.0	Pass
5	0.9062	0.9062	100.0	Pass
6	0.4071	0.4071	100.0	Pass
7	0.6506	0.6506	100.0	Pass
8	0.4762	0.4762	100.0	Pass
9	0.5996	0.5996	100.0	Pass
10	0.8084	0.8084	100.0	Pass
11	1.0519	1.0519	100.0	Pass
12	0.7879	0.7879	100.0	Pass
13	0.8666	0.8666	100.0	Pass
14	1.2487	1.2487	100.0	Pass
15	0.8498	0.8498	100.0	Pass
16	1.1670	1.1670	100.0	Pass

17	0.9998	0.9998	100.0	Pass
18	0.7558	0.7558	100.0	Pass
19	0.6636	0.6636	100.0	Pass
20	0.6491	0.6491	100.0	Pass
21	0.5323	0.5323	100.0	Pass
22	0.8158	0.8158	100.0	Pass
23	0.7651	0.7651	100.0	Pass
24	0.8449	0.8449	100.0	Pass
25	0.7417	0.7417	100.0	Pass
26	0.7234	0.7234	100.0	Pass
27	0.6321	0.6321	100.0	Pass
28	0.8123	0.8123	100.0	Pass
29	0.6159	0.6159	100.0	Pass
Mar1	0.6135	0.6135	100.0	Pass
2	0.4922	0.4922	100.0	Pass
3	0.7283	0.7283	100.0	Pass
4	0.7563	0.7563	100.0	Pass
5	0.5791	0.5791	100.0	Pass
6	0.7435	0.7435	100.0	Pass
7	0.7427	0.7427	100.0	Pass
8	0.7053	0.7053	100.0	Pass
9	0.7077	0.7077	100.0	Pass
10	0.6038	0.6038	100.0	Pass
11	0.6666	0.6666	100.0	Pass
12	0.5888	0.5888	100.0	Pass
13	0.7261	0.7261	100.0	Pass
14	0.5582	0.5582	100.0	Pass
15	0.4512	0.4512	100.0	Pass
16	0.4444	0.4444	100.0	Pass
17	0.6144	0.6144	100.0	Pass
18	0.3566	0.3566	100.0	Pass
19	0.5741	0.5741	100.0	Pass
20	0.4490	0.4490	100.0	Pass
21	0.7925	0.7925	100.0	Pass
22	0.8811	0.8811	100.0	Pass
23	0.6915	0.6915	100.0	Pass
24	0.4157	0.4157	100.0	Pass
25	0.7087	0.7087	100.0	Pass
26	0.4856	0.4856	100.0	Pass
27	0.4830	0.4830	100.0	Pass
28	0.5379	0.5379	100.0	Pass
29	0.4966	0.4966	100.0	Pass
30	0.3581	0.3581	100.0	Pass
31	0.2901	0.2901	100.0	Pass
Apr1	0.3207	0.3207	100.0	Pass
2	0.3682	0.3682	100.0	Pass
3	0.5281	0.5281	100.0	Pass
4	0.4589	0.4589	100.0	Pass
5	0.4838	0.4838	100.0	Pass
6	0.2429	0.2429	100.0	Pass
7	0.4513	0.4513	100.0	Pass
8	0.4407	0.4407	100.0	Pass
9	0.3966	0.3966	100.0	Pass
10	0.3806	0.3806	100.0	Pass
11	0.5567	0.5567	100.0	Pass
12	0.4550	0.4550	100.0	Pass
13	0.4835	0.4835	100.0	Pass

14	0.4007	0.4007	100.0	Pass
15	0.4288	0.4288	100.0	Pass
16	0.2221	0.2221	100.0	Pass
17	0.3377	0.3377	100.0	Pass
18	0.3927	0.3927	100.0	Pass
19	0.1894	0.1894	100.0	Pass
20	0.1978	0.1978	100.0	Pass
21	0.3568	0.3568	100.0	Pass
22	0.2922	0.2922	100.0	Pass
23	0.2474	0.2474	100.0	Pass
24	0.1964	0.1964	100.0	Pass
25	0.2495	0.2495	100.0	Pass
26	0.4165	0.4165	100.0	Pass
27	0.3126	0.3126	100.0	Pass
28	0.3241	0.3241	100.0	Pass
29	0.1424	0.1424	100.0	Pass
30	0.2178	0.2178	100.0	Pass
May1	0.3521	0.3521	100.0	Pass
2	0.2372	0.2372	100.0	Pass
3	0.2677	0.2677	100.0	Pass
4	0.1995	0.1995	100.0	Pass
5	0.1968	0.1968	100.0	Pass
6	0.1679	0.1679	100.0	Pass
7	0.2287	0.2287	100.0	Pass
8	0.1318	0.1318	100.0	Pass
9	0.1987	0.1987	100.0	Pass
10	0.1588	0.1588	100.0	Pass
11	0.1508	0.1508	100.0	Pass
12	0.2153	0.2153	100.0	Pass
13	0.2309	0.2309	100.0	Pass
14	0.2248	0.2248	100.0	Pass
15	0.1394	0.1394	100.0	Pass
16	0.1974	0.1974	100.0	Pass
17	0.1545	0.1545	100.0	Pass
18	0.2685	0.2685	100.0	Pass
19	0.1305	0.1305	100.0	Pass
20	0.1341	0.1341	100.0	Pass
21	0.1387	0.1387	100.0	Pass
22	0.1720	0.1720	100.0	Pass
23	0.1466	0.1466	100.0	Pass
24	0.1545	0.1545	100.0	Pass
25	0.1264	0.1264	100.0	Pass
26	0.2311	0.2311	100.0	Pass
27	0.1739	0.1739	100.0	Pass
28	0.1907	0.1907	100.0	Pass
29	0.2593	0.2593	100.0	Pass
30	0.1606	0.1606	100.0	Pass
31	0.1769	0.1769	100.0	Pass
Jun1	0.1284	0.1284	100.0	Pass
2	0.2342	0.2342	100.0	Pass
3	0.2171	0.2171	100.0	Pass
4	0.1549	0.1549	100.0	Pass
5	0.2647	0.2647	100.0	Pass
6	0.0860	0.0860	100.0	Pass
7	0.1455	0.1455	100.0	Pass
8	0.2153	0.2153	100.0	Pass
9	0.1584	0.1584	100.0	Pass

10	0.1546	0.1546	100.0	Pass
11	0.1084	0.1084	100.0	Pass
12	0.1402	0.1402	100.0	Pass
13	0.2224	0.2224	100.0	Pass
14	0.0818	0.0818	100.0	Pass
15	0.1798	0.1798	100.0	Pass
16	0.0698	0.0698	100.0	Pass
17	0.1074	0.1074	100.0	Pass
18	0.0682	0.0682	100.0	Pass
19	0.0909	0.0909	100.0	Pass
20	0.1033	0.1033	100.0	Pass
21	0.0955	0.0955	100.0	Pass
22	0.0515	0.0515	100.0	Pass
23	0.2904	0.2904	100.0	Pass
24	0.0613	0.0613	100.0	Pass
25	0.1238	0.1238	100.0	Pass
26	0.0737	0.0737	100.0	Pass
27	0.0698	0.0698	100.0	Pass
28	0.0725	0.0725	100.0	Pass
29	0.0951	0.0951	100.0	Pass
30	0.1994	0.1994	100.0	Pass
Jul1	0.0447	0.0447	100.0	Pass
2	0.0420	0.0420	100.0	Pass
3	0.0488	0.0488	100.0	Pass
4	0.1228	0.1228	100.0	Pass
5	0.0884	0.0884	100.0	Pass
6	0.0671	0.0671	100.0	Pass
7	0.1260	0.1260	100.0	Pass
8	0.0666	0.0666	100.0	Pass
9	0.1496	0.1496	100.0	Pass
10	0.0932	0.0932	100.0	Pass
11	0.1870	0.1870	100.0	Pass
12	0.0791	0.0791	100.0	Pass
13	0.0647	0.0647	100.0	Pass
14	0.1087	0.1087	100.0	Pass
15	0.0425	0.0425	100.0	Pass
16	0.0269	0.0269	100.0	Pass
17	0.0960	0.0960	100.0	Pass
18	0.0279	0.0279	100.0	Pass
19	0.0409	0.0409	100.0	Pass
20	0.0721	0.0721	100.0	Pass
21	0.0543	0.0543	100.0	Pass
22	0.0017	0.0017	100.0	Pass
23	0.0158	0.0158	100.0	Pass
24	0.0188	0.0188	100.0	Pass
25	0.0442	0.0442	100.0	Pass
26	0.0195	0.0195	100.0	Pass
27	0.0276	0.0276	100.0	Pass
28	0.0232	0.0232	100.0	Pass
29	0.0146	0.0146	100.0	Pass
30	0.0261	0.0261	100.0	Pass
31	0.0290	0.0290	100.0	Pass
Aug1	0.1182	0.1182	100.0	Pass
2	0.0385	0.0385	100.0	Pass
3	0.0146	0.0146	100.0	Pass
4	0.0149	0.0149	100.0	Pass
5	0.1326	0.1326	100.0	Pass

6	0.0880	0.0880	100.0	Pass
7	0.0298	0.0298	100.0	Pass
8	0.0322	0.0322	100.0	Pass
9	0.0023	0.0023	100.0	Pass
10	0.0180	0.0180	100.0	Pass
11	0.0862	0.0862	100.0	Pass
12	0.0748	0.0748	100.0	Pass
13	0.0917	0.0917	100.0	Pass
14	0.0528	0.0528	100.0	Pass
15	0.0468	0.0468	100.0	Pass
16	0.0436	0.0436	100.0	Pass
17	0.0874	0.0874	100.0	Pass
18	0.1641	0.1641	100.0	Pass
19	0.0413	0.0413	100.0	Pass
20	0.1275	0.1275	100.0	Pass
21	0.1125	0.1125	100.0	Pass
22	0.2226	0.2226	100.0	Pass
23	0.2007	0.2007	100.0	Pass
24	0.1614	0.1614	100.0	Pass
25	0.0610	0.0610	100.0	Pass
26	0.2114	0.2114	100.0	Pass
27	0.2107	0.2107	100.0	Pass
28	0.2055	0.2055	100.0	Pass
29	0.1305	0.1305	100.0	Pass
30	0.2188	0.2188	100.0	Pass
31	0.3407	0.3407	100.0	Pass
Sep1	0.1151	0.1151	100.0	Pass
2	0.1249	0.1249	100.0	Pass
3	0.1421	0.1421	100.0	Pass
4	0.1841	0.1841	100.0	Pass
5	0.1544	0.1544	100.0	Pass
6	0.1063	0.1063	100.0	Pass
7	0.2158	0.2158	100.0	Pass
8	0.1314	0.1314	100.0	Pass
9	0.3533	0.3533	100.0	Pass
10	0.0722	0.0722	100.0	Pass
11	0.0667	0.0667	100.0	Pass
12	0.1893	0.1893	100.0	Pass
13	0.3431	0.3431	100.0	Pass
14	0.2087	0.2087	100.0	Pass
15	0.3277	0.3277	100.0	Pass
16	0.3328	0.3328	100.0	Pass
17	0.3705	0.3705	100.0	Pass
18	0.3294	0.3294	100.0	Pass
19	0.3475	0.3475	100.0	Pass
20	0.2403	0.2403	100.0	Pass
21	0.3425	0.3425	100.0	Pass
22	0.2708	0.2708	100.0	Pass
23	0.2176	0.2176	100.0	Pass
24	0.1545	0.1545	100.0	Pass
25	0.1732	0.1732	100.0	Pass
26	0.1737	0.1737	100.0	Pass
27	0.2345	0.2345	100.0	Pass
28	0.2078	0.2078	100.0	Pass
29	0.2777	0.2777	100.0	Pass
30	0.1904	0.1904	100.0	Pass
Oct1	0.1335	0.1335	100.0	Pass

2	0.3644	0.3644	100.0	Pass
3	0.3175	0.3175	100.0	Pass
4	0.3850	0.3850	100.0	Pass
5	0.4076	0.4076	100.0	Pass
6	0.4494	0.4494	100.0	Pass
7	0.5725	0.5725	100.0	Pass
8	0.4512	0.4512	100.0	Pass
9	0.3439	0.3439	100.0	Pass
10	0.2807	0.2807	100.0	Pass
11	0.5682	0.5682	100.0	Pass
12	0.3629	0.3629	100.0	Pass
13	0.5266	0.5266	100.0	Pass
14	0.2749	0.2749	100.0	Pass
15	0.3438	0.3438	100.0	Pass
16	0.4629	0.4629	100.0	Pass
17	0.4207	0.4207	100.0	Pass
18	0.6846	0.6846	100.0	Pass
19	0.8334	0.8334	100.0	Pass
20	0.7110	0.7110	100.0	Pass
21	0.8617	0.8617	100.0	Pass
22	0.4677	0.4677	100.0	Pass
23	0.8370	0.8370	100.0	Pass
24	0.7203	0.7203	100.0	Pass
25	0.6360	0.6360	100.0	Pass
26	0.7889	0.7889	100.0	Pass
27	0.6494	0.6494	100.0	Pass
28	0.6073	0.6073	100.0	Pass
29	0.5049	0.5049	100.0	Pass
30	0.7912	0.7912	100.0	Pass
31	0.6393	0.6393	100.0	Pass
Nov1	0.8206	0.8206	100.0	Pass
2	1.0171	1.0171	100.0	Pass
3	0.7424	0.7424	100.0	Pass
4	0.7732	0.7732	100.0	Pass
5	0.8579	0.8579	100.0	Pass
6	0.6942	0.6942	100.0	Pass
7	0.6308	0.6308	100.0	Pass
8	0.8533	0.8533	100.0	Pass
9	1.0041	1.0041	100.0	Pass
10	0.8372	0.8372	100.0	Pass
11	0.9470	0.9470	100.0	Pass
12	0.8740	0.8740	100.0	Pass
13	0.6179	0.6179	100.0	Pass
14	0.7665	0.7665	100.0	Pass
15	0.8631	0.8631	100.0	Pass
16	0.9063	0.9063	100.0	Pass
17	0.8117	0.8117	100.0	Pass
18	1.2304	1.2304	100.0	Pass
19	1.0655	1.0655	100.0	Pass
20	0.6639	0.6639	100.0	Pass
21	1.1308	1.1308	100.0	Pass
22	1.3606	1.3606	100.0	Pass
23	0.9737	0.9737	100.0	Pass
24	1.1436	1.1436	100.0	Pass
25	0.7029	0.7029	100.0	Pass
26	0.5705	0.5705	100.0	Pass
27	0.7477	0.7477	100.0	Pass

28	0.7126	0.7126	100.0	Pass
29	1.2274	1.2274	100.0	Pass
30	0.9288	0.9288	100.0	Pass
Dec1	1.0462	1.0462	100.0	Pass
2	0.9931	0.9931	100.0	Pass
3	0.6025	0.6025	100.0	Pass
4	0.7067	0.7067	100.0	Pass
5	0.5901	0.5901	100.0	Pass
6	0.5224	0.5224	100.0	Pass
7	0.7931	0.7931	100.0	Pass
8	0.9985	0.9985	100.0	Pass
9	0.9636	0.9636	100.0	Pass
10	1.0344	1.0344	100.0	Pass
11	0.7296	0.7296	100.0	Pass
12	0.8128	0.8128	100.0	Pass
13	1.2603	1.2603	100.0	Pass
14	0.8045	0.8045	100.0	Pass
15	1.1211	1.1211	100.0	Pass
16	0.6982	0.6982	100.0	Pass
17	0.8846	0.8846	100.0	Pass
18	0.7106	0.7106	100.0	Pass
19	0.8704	0.8704	100.0	Pass
20	0.8308	0.8308	100.0	Pass
21	0.9149	0.9149	100.0	Pass
22	0.9057	0.9057	100.0	Pass
23	0.9930	0.9930	100.0	Pass
24	1.1134	1.1134	100.0	Pass
25	0.9236	0.9236	100.0	Pass
26	0.8373	0.8373	100.0	Pass
27	0.5416	0.5416	100.0	Pass
28	0.9369	0.9369	100.0	Pass
29	0.5699	0.5699	100.0	Pass
30	0.6231	0.6231	100.0	Pass
31	1.1042	1.1042	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #11

Total Pervious Area:0
Total Impervious Area:0.234

Mitigated Landuse Totals for POC #11

Total Pervious Area:0
Total Impervious Area:0.234

Flow Frequency Return Periods for Predeveloped. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.171274
5 year	0.201724
10 year	0.218514

25 year	0.236982
50 year	0.249181
100 year	0.260308

Flow Frequency Return Periods for Mitigated. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.171274
5 year	0.201724
10 year	0.218514
25 year	0.236982
50 year	0.249181
100 year	0.260308

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #11

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.176	0.176
1957	0.224	0.224
1958	0.176	0.176
1959	0.169	0.169
1960	0.175	0.175
1961	0.151	0.151
1962	0.230	0.230
1963	0.213	0.213
1964	0.188	0.188
1965	0.185	0.185
1966	0.179	0.179
1967	0.118	0.118
1968	0.175	0.175
1969	0.164	0.164
1970	0.163	0.163
1971	0.236	0.236
1972	0.198	0.198
1973	0.191	0.191
1974	0.178	0.178
1975	0.160	0.160
1976	0.195	0.195
1977	0.144	0.144
1978	0.250	0.250
1979	0.156	0.156
1980	0.145	0.145
1981	0.186	0.186
1982	0.214	0.214
1983	0.169	0.169
1984	0.154	0.154
1985	0.124	0.124
1986	0.187	0.187
1987	0.131	0.131
1988	0.197	0.197
1989	0.169	0.169
1990	0.213	0.213
1991	0.150	0.150
1992	0.117	0.117
1993	0.131	0.131
1994	0.159	0.159
1995	0.164	0.164

1996	0.198	0.198
1997	0.186	0.186
1998	0.122	0.122
1999	0.147	0.147
2000	0.140	0.140
2001	0.137	0.137
2002	0.217	0.217
2003	0.224	0.224
2004	0.210	0.210
2005	0.168	0.168
2006	0.171	0.171
2007	0.200	0.200
2008	0.110	0.110
2009	0.105	0.105

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	0.2498	0.2498
2	0.2362	0.2362
3	0.2301	0.2301
4	0.2240	0.2240
5	0.2237	0.2237
6	0.2175	0.2175
7	0.2142	0.2142
8	0.2134	0.2134
9	0.2127	0.2127
10	0.2104	0.2104
11	0.1997	0.1997
12	0.1979	0.1979
13	0.1977	0.1977
14	0.1974	0.1974
15	0.1949	0.1949
16	0.1909	0.1909
17	0.1885	0.1885
18	0.1871	0.1871
19	0.1864	0.1864
20	0.1861	0.1861
21	0.1852	0.1852
22	0.1790	0.1790
23	0.1779	0.1779
24	0.1759	0.1759
25	0.1756	0.1756
26	0.1746	0.1746
27	0.1745	0.1745
28	0.1709	0.1709
29	0.1689	0.1689
30	0.1688	0.1688
31	0.1685	0.1685
32	0.1682	0.1682
33	0.1640	0.1640
34	0.1639	0.1639
35	0.1625	0.1625
36	0.1604	0.1604
37	0.1590	0.1590
38	0.1558	0.1558

39	0.1545	0.1545
40	0.1509	0.1509
41	0.1503	0.1503
42	0.1474	0.1474
43	0.1454	0.1454
44	0.1439	0.1439
45	0.1398	0.1398
46	0.1371	0.1371
47	0.1313	0.1313
48	0.1306	0.1306
49	0.1236	0.1236
50	0.1220	0.1220
51	0.1181	0.1181
52	0.1170	0.1170
53	0.1098	0.1098
54	0.1046	0.1046

Stream Protection Duration

POC #11

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0856	1214	1214	100	Pass
0.0873	1129	1129	100	Pass
0.0889	1060	1060	100	Pass
0.0906	985	985	100	Pass
0.0922	925	925	100	Pass
0.0939	862	862	100	Pass
0.0955	793	793	100	Pass
0.0972	734	734	100	Pass
0.0989	681	681	100	Pass
0.1005	630	630	100	Pass
0.1022	580	580	100	Pass
0.1038	538	538	100	Pass
0.1055	499	499	100	Pass
0.1071	467	467	100	Pass
0.1088	425	425	100	Pass
0.1104	395	395	100	Pass
0.1121	367	367	100	Pass
0.1137	346	346	100	Pass
0.1154	326	326	100	Pass
0.1170	305	305	100	Pass
0.1187	288	288	100	Pass
0.1203	272	272	100	Pass
0.1220	258	258	100	Pass
0.1236	237	237	100	Pass
0.1253	226	226	100	Pass
0.1269	217	217	100	Pass
0.1286	211	211	100	Pass
0.1302	196	196	100	Pass
0.1319	189	189	100	Pass
0.1335	178	178	100	Pass
0.1352	170	170	100	Pass
0.1368	161	161	100	Pass

0.1385	154	154	100	Pass
0.1402	141	141	100	Pass
0.1418	131	131	100	Pass
0.1435	123	123	100	Pass
0.1451	115	115	100	Pass
0.1468	110	110	100	Pass
0.1484	106	106	100	Pass
0.1501	102	102	100	Pass
0.1517	96	96	100	Pass
0.1534	94	94	100	Pass
0.1550	86	86	100	Pass
0.1567	80	80	100	Pass
0.1583	76	76	100	Pass
0.1600	72	72	100	Pass
0.1616	68	68	100	Pass
0.1633	63	63	100	Pass
0.1649	60	60	100	Pass
0.1666	56	56	100	Pass
0.1682	56	56	100	Pass
0.1699	50	50	100	Pass
0.1715	48	48	100	Pass
0.1732	47	47	100	Pass
0.1748	45	45	100	Pass
0.1765	39	39	100	Pass
0.1781	35	35	100	Pass
0.1798	34	34	100	Pass
0.1815	34	34	100	Pass
0.1831	33	33	100	Pass
0.1848	32	32	100	Pass
0.1864	29	29	100	Pass
0.1881	27	27	100	Pass
0.1897	26	26	100	Pass
0.1914	24	24	100	Pass
0.1930	24	24	100	Pass
0.1947	24	24	100	Pass
0.1963	23	23	100	Pass
0.1980	18	18	100	Pass
0.1996	17	17	100	Pass
0.2013	15	15	100	Pass
0.2029	14	14	100	Pass
0.2046	13	13	100	Pass
0.2062	12	12	100	Pass
0.2079	12	12	100	Pass
0.2095	12	12	100	Pass
0.2112	11	11	100	Pass
0.2128	9	9	100	Pass
0.2145	7	7	100	Pass
0.2161	7	7	100	Pass
0.2178	6	6	100	Pass
0.2194	6	6	100	Pass
0.2211	6	6	100	Pass
0.2227	5	5	100	Pass
0.2244	3	3	100	Pass
0.2261	3	3	100	Pass
0.2277	3	3	100	Pass
0.2294	3	3	100	Pass
0.2310	2	2	100	Pass

0.2327	2	2	100	Pass
0.2343	2	2	100	Pass
0.2360	2	2	100	Pass
0.2376	1	1	100	Pass
0.2393	1	1	100	Pass
0.2409	1	1	100	Pass
0.2426	1	1	100	Pass
0.2442	1	1	100	Pass
0.2459	1	1	100	Pass
0.2475	1	1	100	Pass
0.2492	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #11
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 11
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	10.3157	10.3157	100.0	Pass
Feb	7.8759	7.8759	100.0	Pass
Mar	7.0294	7.0294	100.0	Pass
Apr	3.9995	3.9995	100.0	Pass
May	2.2552	2.2552	100.0	Pass
Jun	1.5301	1.5301	100.0	Pass
Jul	0.7726	0.7726	100.0	Pass
Aug	1.1621	1.1621	100.0	Pass
Sep	2.5550	2.5550	100.0	Pass
Oct	6.0379	6.0379	100.0	Pass
Nov	9.9137	9.9137	100.0	Pass
Dec	9.9422	9.9422	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3322	0.3322	100.0	Pass
2	0.2550	0.2550	100.0	Pass
3	0.3355	0.3355	100.0	Pass
4	0.4011	0.4011	100.0	Pass
5	0.2767	0.2767	100.0	Pass
6	0.4399	0.4399	100.0	Pass
7	0.3239	0.3239	100.0	Pass
8	0.3296	0.3296	100.0	Pass
9	0.3583	0.3583	100.0	Pass
10	0.3417	0.3417	100.0	Pass
11	0.4254	0.4254	100.0	Pass
12	0.3222	0.3222	100.0	Pass
13	0.4206	0.4206	100.0	Pass
14	0.4146	0.4146	100.0	Pass
15	0.3736	0.3736	100.0	Pass
16	0.2968	0.2968	100.0	Pass
17	0.2879	0.2879	100.0	Pass

18	0.2541	0.2541	100.0	Pass
19	0.2592	0.2592	100.0	Pass
20	0.1613	0.1613	100.0	Pass
21	0.3505	0.3505	100.0	Pass
22	0.4109	0.4109	100.0	Pass
23	0.4536	0.4536	100.0	Pass
24	0.2925	0.2925	100.0	Pass
25	0.2480	0.2480	100.0	Pass
26	0.2243	0.2243	100.0	Pass
27	0.2997	0.2997	100.0	Pass
28	0.3843	0.3843	100.0	Pass
29	0.2813	0.2813	100.0	Pass
30	0.3441	0.3441	100.0	Pass
31	0.1914	0.1914	100.0	Pass
Feb1	0.2293	0.2293	100.0	Pass
2	0.2123	0.2123	100.0	Pass
3	0.1893	0.1893	100.0	Pass
4	0.1753	0.1753	100.0	Pass
5	0.3431	0.3431	100.0	Pass
6	0.1541	0.1541	100.0	Pass
7	0.2463	0.2463	100.0	Pass
8	0.1803	0.1803	100.0	Pass
9	0.2270	0.2270	100.0	Pass
10	0.3061	0.3061	100.0	Pass
11	0.3983	0.3983	100.0	Pass
12	0.2983	0.2983	100.0	Pass
13	0.3281	0.3281	100.0	Pass
14	0.4728	0.4728	100.0	Pass
15	0.3218	0.3218	100.0	Pass
16	0.4419	0.4419	100.0	Pass
17	0.3786	0.3786	100.0	Pass
18	0.2862	0.2862	100.0	Pass
19	0.2513	0.2513	100.0	Pass
20	0.2458	0.2458	100.0	Pass
21	0.2015	0.2015	100.0	Pass
22	0.3089	0.3089	100.0	Pass
23	0.2897	0.2897	100.0	Pass
24	0.3199	0.3199	100.0	Pass
25	0.2808	0.2808	100.0	Pass
26	0.2739	0.2739	100.0	Pass
27	0.2393	0.2393	100.0	Pass
28	0.3076	0.3076	100.0	Pass
29	0.2332	0.2332	100.0	Pass
Mar1	0.2323	0.2323	100.0	Pass
2	0.1864	0.1864	100.0	Pass
3	0.2758	0.2758	100.0	Pass
4	0.2864	0.2864	100.0	Pass
5	0.2193	0.2193	100.0	Pass
6	0.2815	0.2815	100.0	Pass
7	0.2812	0.2812	100.0	Pass
8	0.2670	0.2670	100.0	Pass
9	0.2680	0.2680	100.0	Pass
10	0.2286	0.2286	100.0	Pass
11	0.2524	0.2524	100.0	Pass
12	0.2229	0.2229	100.0	Pass
13	0.2749	0.2749	100.0	Pass
14	0.2113	0.2113	100.0	Pass

15	0.1708	0.1708	100.0	Pass
16	0.1682	0.1682	100.0	Pass
17	0.2327	0.2327	100.0	Pass
18	0.1350	0.1350	100.0	Pass
19	0.2174	0.2174	100.0	Pass
20	0.1700	0.1700	100.0	Pass
21	0.3001	0.3001	100.0	Pass
22	0.3336	0.3336	100.0	Pass
23	0.2618	0.2618	100.0	Pass
24	0.1574	0.1574	100.0	Pass
25	0.2684	0.2684	100.0	Pass
26	0.1839	0.1839	100.0	Pass
27	0.1829	0.1829	100.0	Pass
28	0.2037	0.2037	100.0	Pass
29	0.1880	0.1880	100.0	Pass
30	0.1356	0.1356	100.0	Pass
31	0.1099	0.1099	100.0	Pass
Apr1	0.1214	0.1214	100.0	Pass
2	0.1394	0.1394	100.0	Pass
3	0.2000	0.2000	100.0	Pass
4	0.1738	0.1738	100.0	Pass
5	0.1832	0.1832	100.0	Pass
6	0.0920	0.0920	100.0	Pass
7	0.1709	0.1709	100.0	Pass
8	0.1669	0.1669	100.0	Pass
9	0.1502	0.1502	100.0	Pass
10	0.1441	0.1441	100.0	Pass
11	0.2108	0.2108	100.0	Pass
12	0.1723	0.1723	100.0	Pass
13	0.1831	0.1831	100.0	Pass
14	0.1517	0.1517	100.0	Pass
15	0.1624	0.1624	100.0	Pass
16	0.0841	0.0841	100.0	Pass
17	0.1279	0.1279	100.0	Pass
18	0.1487	0.1487	100.0	Pass
19	0.0717	0.0717	100.0	Pass
20	0.0749	0.0749	100.0	Pass
21	0.1351	0.1351	100.0	Pass
22	0.1106	0.1106	100.0	Pass
23	0.0937	0.0937	100.0	Pass
24	0.0744	0.0744	100.0	Pass
25	0.0945	0.0945	100.0	Pass
26	0.1577	0.1577	100.0	Pass
27	0.1184	0.1184	100.0	Pass
28	0.1227	0.1227	100.0	Pass
29	0.0539	0.0539	100.0	Pass
30	0.0825	0.0825	100.0	Pass
May1	0.1333	0.1333	100.0	Pass
2	0.0898	0.0898	100.0	Pass
3	0.1014	0.1014	100.0	Pass
4	0.0755	0.0755	100.0	Pass
5	0.0745	0.0745	100.0	Pass
6	0.0636	0.0636	100.0	Pass
7	0.0866	0.0866	100.0	Pass
8	0.0499	0.0499	100.0	Pass
9	0.0752	0.0752	100.0	Pass
10	0.0601	0.0601	100.0	Pass

11	0.0571	0.0571	100.0	Pass
12	0.0815	0.0815	100.0	Pass
13	0.0874	0.0874	100.0	Pass
14	0.0851	0.0851	100.0	Pass
15	0.0528	0.0528	100.0	Pass
16	0.0747	0.0747	100.0	Pass
17	0.0585	0.0585	100.0	Pass
18	0.1017	0.1017	100.0	Pass
19	0.0494	0.0494	100.0	Pass
20	0.0508	0.0508	100.0	Pass
21	0.0525	0.0525	100.0	Pass
22	0.0651	0.0651	100.0	Pass
23	0.0555	0.0555	100.0	Pass
24	0.0585	0.0585	100.0	Pass
25	0.0478	0.0478	100.0	Pass
26	0.0875	0.0875	100.0	Pass
27	0.0658	0.0658	100.0	Pass
28	0.0722	0.0722	100.0	Pass
29	0.0982	0.0982	100.0	Pass
30	0.0608	0.0608	100.0	Pass
31	0.0670	0.0670	100.0	Pass
Jun1	0.0486	0.0486	100.0	Pass
2	0.0887	0.0887	100.0	Pass
3	0.0822	0.0822	100.0	Pass
4	0.0586	0.0586	100.0	Pass
5	0.1002	0.1002	100.0	Pass
6	0.0326	0.0326	100.0	Pass
7	0.0551	0.0551	100.0	Pass
8	0.0815	0.0815	100.0	Pass
9	0.0600	0.0600	100.0	Pass
10	0.0585	0.0585	100.0	Pass
11	0.0411	0.0411	100.0	Pass
12	0.0531	0.0531	100.0	Pass
13	0.0842	0.0842	100.0	Pass
14	0.0310	0.0310	100.0	Pass
15	0.0681	0.0681	100.0	Pass
16	0.0264	0.0264	100.0	Pass
17	0.0407	0.0407	100.0	Pass
18	0.0258	0.0258	100.0	Pass
19	0.0344	0.0344	100.0	Pass
20	0.0391	0.0391	100.0	Pass
21	0.0362	0.0362	100.0	Pass
22	0.0195	0.0195	100.0	Pass
23	0.1100	0.1100	100.0	Pass
24	0.0232	0.0232	100.0	Pass
25	0.0469	0.0469	100.0	Pass
26	0.0279	0.0279	100.0	Pass
27	0.0264	0.0264	100.0	Pass
28	0.0274	0.0274	100.0	Pass
29	0.0360	0.0360	100.0	Pass
30	0.0755	0.0755	100.0	Pass
Jul1	0.0169	0.0169	100.0	Pass
2	0.0159	0.0159	100.0	Pass
3	0.0185	0.0185	100.0	Pass
4	0.0465	0.0465	100.0	Pass
5	0.0335	0.0335	100.0	Pass
6	0.0254	0.0254	100.0	Pass

7	0.0477	0.0477	100.0	Pass
8	0.0252	0.0252	100.0	Pass
9	0.0567	0.0567	100.0	Pass
10	0.0353	0.0353	100.0	Pass
11	0.0708	0.0708	100.0	Pass
12	0.0299	0.0299	100.0	Pass
13	0.0245	0.0245	100.0	Pass
14	0.0412	0.0412	100.0	Pass
15	0.0161	0.0161	100.0	Pass
16	0.0102	0.0102	100.0	Pass
17	0.0364	0.0364	100.0	Pass
18	0.0106	0.0106	100.0	Pass
19	0.0155	0.0155	100.0	Pass
20	0.0273	0.0273	100.0	Pass
21	0.0206	0.0206	100.0	Pass
22	0.0006	0.0006	100.0	Pass
23	0.0060	0.0060	100.0	Pass
24	0.0071	0.0071	100.0	Pass
25	0.0167	0.0167	100.0	Pass
26	0.0074	0.0074	100.0	Pass
27	0.0105	0.0105	100.0	Pass
28	0.0088	0.0088	100.0	Pass
29	0.0055	0.0055	100.0	Pass
30	0.0099	0.0099	100.0	Pass
31	0.0110	0.0110	100.0	Pass
Aug1	0.0447	0.0447	100.0	Pass
2	0.0146	0.0146	100.0	Pass
3	0.0055	0.0055	100.0	Pass
4	0.0056	0.0056	100.0	Pass
5	0.0502	0.0502	100.0	Pass
6	0.0333	0.0333	100.0	Pass
7	0.0113	0.0113	100.0	Pass
8	0.0122	0.0122	100.0	Pass
9	0.0009	0.0009	100.0	Pass
10	0.0068	0.0068	100.0	Pass
11	0.0326	0.0326	100.0	Pass
12	0.0283	0.0283	100.0	Pass
13	0.0347	0.0347	100.0	Pass
14	0.0200	0.0200	100.0	Pass
15	0.0177	0.0177	100.0	Pass
16	0.0165	0.0165	100.0	Pass
17	0.0331	0.0331	100.0	Pass
18	0.0621	0.0621	100.0	Pass
19	0.0156	0.0156	100.0	Pass
20	0.0483	0.0483	100.0	Pass
21	0.0426	0.0426	100.0	Pass
22	0.0843	0.0843	100.0	Pass
23	0.0760	0.0760	100.0	Pass
24	0.0611	0.0611	100.0	Pass
25	0.0231	0.0231	100.0	Pass
26	0.0800	0.0800	100.0	Pass
27	0.0798	0.0798	100.0	Pass
28	0.0778	0.0778	100.0	Pass
29	0.0494	0.0494	100.0	Pass
30	0.0829	0.0829	100.0	Pass
31	0.1290	0.1290	100.0	Pass
Sep1	0.0436	0.0436	100.0	Pass

2	0.0473	0.0473	100.0	Pass
3	0.0538	0.0538	100.0	Pass
4	0.0697	0.0697	100.0	Pass
5	0.0585	0.0585	100.0	Pass
6	0.0402	0.0402	100.0	Pass
7	0.0817	0.0817	100.0	Pass
8	0.0498	0.0498	100.0	Pass
9	0.1338	0.1338	100.0	Pass
10	0.0273	0.0273	100.0	Pass
11	0.0253	0.0253	100.0	Pass
12	0.0717	0.0717	100.0	Pass
13	0.1299	0.1299	100.0	Pass
14	0.0790	0.0790	100.0	Pass
15	0.1241	0.1241	100.0	Pass
16	0.1260	0.1260	100.0	Pass
17	0.1403	0.1403	100.0	Pass
18	0.1247	0.1247	100.0	Pass
19	0.1316	0.1316	100.0	Pass
20	0.0910	0.0910	100.0	Pass
21	0.1297	0.1297	100.0	Pass
22	0.1025	0.1025	100.0	Pass
23	0.0824	0.0824	100.0	Pass
24	0.0585	0.0585	100.0	Pass
25	0.0656	0.0656	100.0	Pass
26	0.0658	0.0658	100.0	Pass
27	0.0888	0.0888	100.0	Pass
28	0.0787	0.0787	100.0	Pass
29	0.1052	0.1052	100.0	Pass
30	0.0721	0.0721	100.0	Pass
Oct1	0.0505	0.0505	100.0	Pass
2	0.1380	0.1380	100.0	Pass
3	0.1202	0.1202	100.0	Pass
4	0.1458	0.1458	100.0	Pass
5	0.1543	0.1543	100.0	Pass
6	0.1701	0.1701	100.0	Pass
7	0.2168	0.2168	100.0	Pass
8	0.1709	0.1709	100.0	Pass
9	0.1302	0.1302	100.0	Pass
10	0.1063	0.1063	100.0	Pass
11	0.2151	0.2151	100.0	Pass
12	0.1374	0.1374	100.0	Pass
13	0.1994	0.1994	100.0	Pass
14	0.1041	0.1041	100.0	Pass
15	0.1302	0.1302	100.0	Pass
16	0.1753	0.1753	100.0	Pass
17	0.1593	0.1593	100.0	Pass
18	0.2592	0.2592	100.0	Pass
19	0.3155	0.3155	100.0	Pass
20	0.2692	0.2692	100.0	Pass
21	0.3263	0.3263	100.0	Pass
22	0.1771	0.1771	100.0	Pass
23	0.3169	0.3169	100.0	Pass
24	0.2727	0.2727	100.0	Pass
25	0.2408	0.2408	100.0	Pass
26	0.2987	0.2987	100.0	Pass
27	0.2459	0.2459	100.0	Pass
28	0.2300	0.2300	100.0	Pass

29	0.1912	0.1912	100.0	Pass
30	0.2996	0.2996	100.0	Pass
31	0.2421	0.2421	100.0	Pass
Nov1	0.3107	0.3107	100.0	Pass
2	0.3851	0.3851	100.0	Pass
3	0.2811	0.2811	100.0	Pass
4	0.2927	0.2927	100.0	Pass
5	0.3248	0.3248	100.0	Pass
6	0.2628	0.2628	100.0	Pass
7	0.2388	0.2388	100.0	Pass
8	0.3231	0.3231	100.0	Pass
9	0.3802	0.3802	100.0	Pass
10	0.3170	0.3170	100.0	Pass
11	0.3586	0.3586	100.0	Pass
12	0.3309	0.3309	100.0	Pass
13	0.2340	0.2340	100.0	Pass
14	0.2902	0.2902	100.0	Pass
15	0.3268	0.3268	100.0	Pass
16	0.3432	0.3432	100.0	Pass
17	0.3073	0.3073	100.0	Pass
18	0.4659	0.4659	100.0	Pass
19	0.4034	0.4034	100.0	Pass
20	0.2514	0.2514	100.0	Pass
21	0.4282	0.4282	100.0	Pass
22	0.5152	0.5152	100.0	Pass
23	0.3687	0.3687	100.0	Pass
24	0.4330	0.4330	100.0	Pass
25	0.2662	0.2662	100.0	Pass
26	0.2160	0.2160	100.0	Pass
27	0.2831	0.2831	100.0	Pass
28	0.2698	0.2698	100.0	Pass
29	0.4648	0.4648	100.0	Pass
30	0.3517	0.3517	100.0	Pass
Dec1	0.3961	0.3961	100.0	Pass
2	0.3760	0.3760	100.0	Pass
3	0.2281	0.2281	100.0	Pass
4	0.2676	0.2676	100.0	Pass
5	0.2234	0.2234	100.0	Pass
6	0.1978	0.1978	100.0	Pass
7	0.3003	0.3003	100.0	Pass
8	0.3781	0.3781	100.0	Pass
9	0.3649	0.3649	100.0	Pass
10	0.3916	0.3916	100.0	Pass
11	0.2762	0.2762	100.0	Pass
12	0.3078	0.3078	100.0	Pass
13	0.4772	0.4772	100.0	Pass
14	0.3046	0.3046	100.0	Pass
15	0.4245	0.4245	100.0	Pass
16	0.2644	0.2644	100.0	Pass
17	0.3350	0.3350	100.0	Pass
18	0.2691	0.2691	100.0	Pass
19	0.3296	0.3296	100.0	Pass
20	0.3146	0.3146	100.0	Pass
21	0.3464	0.3464	100.0	Pass
22	0.3429	0.3429	100.0	Pass
23	0.3760	0.3760	100.0	Pass
24	0.4216	0.4216	100.0	Pass

25	0.3497	0.3497	100.0	Pass
26	0.3170	0.3170	100.0	Pass
27	0.2051	0.2051	100.0	Pass
28	0.3547	0.3547	100.0	Pass
29	0.2158	0.2158	100.0	Pass
30	0.2359	0.2359	100.0	Pass
31	0.4181	0.4181	100.0	Pass

Perlnd and Implnd Changes

No changes have been made.

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10th Street Basin WWHM Modeling Report (2)

WWHM2012 PROJECT REPORT

Project Name: 10th street pump station basin2
Site Name: 10th street basin
Site Address:
City :
Report Date: 8/12/2019
Gage : Montesano
Data Start : 1955/10/01
Data End : 2009/09/30
Precip Scale: 1.10
Version : 2013/09/11

Low Flow Threshold for POC 1 : 50 Percent of the 2 Year

High Flow Threshold for POC 1: 50 year

Low Flow Threshold for POC 2 : 50 Percent of the 2 Year

High Flow Threshold for POC 2: 50 year

Low Flow Threshold for POC 3 : 50 Percent of the 2 Year

High Flow Threshold for POC 3: 50 year

Low Flow Threshold for POC 4 : 50 Percent of the 2 Year

High Flow Threshold for POC 4: 50 year

Low Flow Threshold for POC 5 : 50 Percent of the 2 Year

High Flow Threshold for POC 5: 50 year

Low Flow Threshold for POC 6 : 50 Percent of the 2 Year

High Flow Threshold for POC 6: 50 year

Low Flow Threshold for POC 10 : 50 Percent of the 2 Year

High Flow Threshold for POC 10: 50 year

Low Flow Threshold for POC 11 : 50 Percent of the 2 Year

High Flow Threshold for POC 11: 50 year

PREDEVELOPED LAND USE

Name : NODE-6

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.047
Pervious Total	0.047
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.345
Impervious Total	0.345
Basin Total	0.392

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-12

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.3
Pervious Total	0.3
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.658
Impervious Total	0.658
Basin Total	0.958

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-7

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.087
Impervious Total	0.087
Basin Total	0.087

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-11

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.071
Pervious Total	0.071
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.521
Impervious Total	0.521
Basin Total	0.592

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-8

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.033
Pervious Total	0.033
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.24
Impervious Total	0.24
Basin Total	0.273

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-5

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.911
Pervious Total	0.911
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.649
Impervious Total	2.649
Basin Total	3.56

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-12

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.431

Pervious Total	0.431
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.44
Impervious Total	1.44
Basin Total	1.871

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-6
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	1.631
Pervious Total	1.631
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	3.566
Impervious Total	3.566
Basin Total	5.197

Element Flows To:		
Surface	Interflow	Groundwater

MITIGATED LAND USE

Name : NODE-6
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.047
Pervious Total	0.047

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.345
Impervious Total	0.345
Basin Total	0.392

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-12
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.3
Pervious Total	0.3
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.658
Impervious Total	0.658
Basin Total	0.958

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-7
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.087
Impervious Total	0.087
Basin Total	0.087

Element Flows To:
Surface Interflow Groundwater

Name : SD-11
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.071
Pervious Total	0.071
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.521
Impervious Total	0.521
Basin Total	0.592

Element Flows To:
Surface Interflow Groundwater

Name : NODE-8
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.033
Pervious Total	0.033
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.24
Impervious Total	0.24
Basin Total	0.273

Element Flows To:

Surface Interflow Groundwater

Name : SD-5

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.911
Pervious Total	0.911
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.649
Impervious Total	2.649
Basin Total	3.56

Element Flows To:
Surface Interflow Groundwater

Name : NODE-12

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.431
Pervious Total	0.431
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.44
Impervious Total	1.44
Basin Total	1.871

Element Flows To:
Surface Interflow Groundwater

Name : SD-6

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	1.631
Pervious Total	1.631
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	3.566
Impervious Total	3.566
Basin Total	5.197

Element Flows To:	Interflow	Groundwater
Surface		

ANALYSIS RESULTS

Stream Protection Duration

Predeveloped Landuse Totals for POC #1

Total Pervious Area:0.047

Total Impervious Area:0.345

Mitigated Landuse Totals for POC #1

Total Pervious Area:0.047

Total Impervious Area:0.345

Flow Frequency Return Periods for Predeveloped. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.271964
5 year	0.322476
10 year	0.349768
25 year	0.37925
50 year	0.398387
100 year	0.415593

Flow Frequency Return Periods for Mitigated. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.271964
5 year	0.322476

10 year	0.349768
25 year	0.37925
50 year	0.398387
100 year	0.415593

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #1

Year	Predeveloped	Mitigated
1956	0.285	0.285
1957	0.357	0.357
1958	0.276	0.276
1959	0.272	0.272
1960	0.283	0.283
1961	0.233	0.233
1962	0.373	0.373
1963	0.343	0.343
1964	0.299	0.299
1965	0.297	0.297
1966	0.289	0.289
1967	0.185	0.185
1968	0.280	0.280
1969	0.265	0.265
1970	0.253	0.253
1971	0.381	0.381
1972	0.322	0.322
1973	0.303	0.303
1974	0.288	0.288
1975	0.256	0.256
1976	0.313	0.313
1977	0.228	0.228
1978	0.398	0.398
1979	0.249	0.249
1980	0.230	0.230
1981	0.294	0.294
1982	0.339	0.339
1983	0.268	0.268
1984	0.246	0.246
1985	0.190	0.190
1986	0.299	0.299
1987	0.209	0.209
1988	0.316	0.316
1989	0.267	0.267
1990	0.345	0.345
1991	0.228	0.228
1992	0.179	0.179
1993	0.202	0.202
1994	0.252	0.252
1995	0.249	0.249
1996	0.302	0.302
1997	0.294	0.294
1998	0.184	0.184
1999	0.233	0.233
2000	0.214	0.214
2001	0.211	0.211
2002	0.325	0.325
2003	0.364	0.364

2004	0.339	0.339
2005	0.269	0.269
2006	0.273	0.273
2007	0.322	0.322
2008	0.170	0.170
2009	0.161	0.161

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	0.3975	0.3975
2	0.3815	0.3815
3	0.3731	0.3731
4	0.3636	0.3636
5	0.3568	0.3568
6	0.3446	0.3446
7	0.3432	0.3432
8	0.3395	0.3395
9	0.3387	0.3387
10	0.3250	0.3250
11	0.3221	0.3221
12	0.3217	0.3217
13	0.3160	0.3160
14	0.3128	0.3128
15	0.3031	0.3031
16	0.3021	0.3021
17	0.2990	0.2990
18	0.2986	0.2986
19	0.2967	0.2967
20	0.2945	0.2945
21	0.2944	0.2944
22	0.2892	0.2892
23	0.2878	0.2878
24	0.2851	0.2851
25	0.2826	0.2826
26	0.2799	0.2799
27	0.2760	0.2760
28	0.2735	0.2735
29	0.2721	0.2721
30	0.2685	0.2685
31	0.2677	0.2677
32	0.2673	0.2673
33	0.2650	0.2650
34	0.2559	0.2559
35	0.2531	0.2531
36	0.2524	0.2524
37	0.2491	0.2491
38	0.2486	0.2486
39	0.2463	0.2463
40	0.2328	0.2328
41	0.2325	0.2325
42	0.2300	0.2300
43	0.2280	0.2280
44	0.2275	0.2275
45	0.2139	0.2139
46	0.2115	0.2115

47	0.2087	0.2087
48	0.2016	0.2016
49	0.1897	0.1897
50	0.1854	0.1854
51	0.1839	0.1839
52	0.1792	0.1792
53	0.1703	0.1703
54	0.1612	0.1612

Stream Protection Duration

POC #1

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.1360	1126	1126	100	Pass
0.1386	1045	1045	100	Pass
0.1413	961	961	100	Pass
0.1439	913	913	100	Pass
0.1466	836	836	100	Pass
0.1492	773	773	100	Pass
0.1519	733	733	100	Pass
0.1545	664	664	100	Pass
0.1572	608	608	100	Pass
0.1598	574	574	100	Pass
0.1625	538	538	100	Pass
0.1651	494	494	100	Pass
0.1678	475	475	100	Pass
0.1704	432	432	100	Pass
0.1731	395	395	100	Pass
0.1757	375	375	100	Pass
0.1784	348	348	100	Pass
0.1810	319	319	100	Pass
0.1837	304	304	100	Pass
0.1863	287	287	100	Pass
0.1890	274	274	100	Pass
0.1916	258	258	100	Pass
0.1943	239	239	100	Pass
0.1969	233	233	100	Pass
0.1996	218	218	100	Pass
0.2022	203	203	100	Pass
0.2049	198	198	100	Pass
0.2075	186	186	100	Pass
0.2102	174	174	100	Pass
0.2128	169	169	100	Pass
0.2155	159	159	100	Pass
0.2181	151	151	100	Pass
0.2208	145	145	100	Pass
0.2235	138	138	100	Pass
0.2261	127	127	100	Pass
0.2288	117	117	100	Pass
0.2314	109	109	100	Pass
0.2341	100	100	100	Pass
0.2367	100	100	100	Pass
0.2394	94	94	100	Pass

0.2420	91	91	100	Pass
0.2447	90	90	100	Pass
0.2473	81	81	100	Pass
0.2500	78	78	100	Pass
0.2526	75	75	100	Pass
0.2553	70	70	100	Pass
0.2579	66	66	100	Pass
0.2606	63	63	100	Pass
0.2632	61	61	100	Pass
0.2659	59	59	100	Pass
0.2685	53	53	100	Pass
0.2712	51	51	100	Pass
0.2738	47	47	100	Pass
0.2765	44	44	100	Pass
0.2791	43	43	100	Pass
0.2818	42	42	100	Pass
0.2844	40	40	100	Pass
0.2871	38	38	100	Pass
0.2897	35	35	100	Pass
0.2924	34	34	100	Pass
0.2950	32	32	100	Pass
0.2977	30	30	100	Pass
0.3003	26	26	100	Pass
0.3030	26	26	100	Pass
0.3056	23	23	100	Pass
0.3083	23	23	100	Pass
0.3109	23	23	100	Pass
0.3136	22	22	100	Pass
0.3162	20	20	100	Pass
0.3189	18	18	100	Pass
0.3215	17	17	100	Pass
0.3242	14	14	100	Pass
0.3268	13	13	100	Pass
0.3295	12	12	100	Pass
0.3321	11	11	100	Pass
0.3348	11	11	100	Pass
0.3374	11	11	100	Pass
0.3401	9	9	100	Pass
0.3427	9	9	100	Pass
0.3454	7	7	100	Pass
0.3480	6	6	100	Pass
0.3507	6	6	100	Pass
0.3533	6	6	100	Pass
0.3560	6	6	100	Pass
0.3586	5	5	100	Pass
0.3613	4	4	100	Pass
0.3639	4	4	100	Pass
0.3666	3	3	100	Pass
0.3692	3	3	100	Pass
0.3719	3	3	100	Pass
0.3745	2	2	100	Pass
0.3772	2	2	100	Pass
0.3798	2	2	100	Pass
0.3825	1	1	100	Pass
0.3851	1	1	100	Pass
0.3878	1	1	100	Pass
0.3904	1	1	100	Pass

0.3931	1	1	100	Pass
0.3957	1	1	100	Pass
0.3984	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #1
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 1
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	16.8626	16.8626	100.0	Pass
Feb	12.9044	12.9044	100.0	Pass
Mar	11.5002	11.5002	100.0	Pass
Apr	6.4891	6.4891	100.0	Pass
May	3.5711	3.5711	100.0	Pass
Jun	2.3950	2.3950	100.0	Pass
Jul	1.1941	1.1941	100.0	Pass
Aug	1.7821	1.7821	100.0	Pass
Sep	3.9907	3.9907	100.0	Pass
Oct	9.6031	9.6031	100.0	Pass
Nov	16.0823	16.0823	100.0	Pass
Dec	16.2579	16.2579	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.5416	0.5416	100.0	Pass
2	0.4223	0.4223	100.0	Pass
3	0.5447	0.5447	100.0	Pass
4	0.6441	0.6441	100.0	Pass
5	0.4587	0.4587	100.0	Pass
6	0.7051	0.7051	100.0	Pass
7	0.5352	0.5352	100.0	Pass
8	0.5405	0.5405	100.0	Pass
9	0.5809	0.5809	100.0	Pass
10	0.5604	0.5604	100.0	Pass
11	0.6904	0.6904	100.0	Pass
12	0.5334	0.5334	100.0	Pass
13	0.6827	0.6827	100.0	Pass
14	0.6769	0.6769	100.0	Pass
15	0.6145	0.6145	100.0	Pass
16	0.4978	0.4978	100.0	Pass
17	0.4793	0.4793	100.0	Pass
18	0.4235	0.4235	100.0	Pass
19	0.4265	0.4265	100.0	Pass
20	0.2747	0.2747	100.0	Pass
21	0.5540	0.5540	100.0	Pass
22	0.6609	0.6609	100.0	Pass
23	0.7352	0.7352	100.0	Pass
24	0.4900	0.4900	100.0	Pass
25	0.4162	0.4162	100.0	Pass

26	0.3761	0.3761	100.0	Pass
27	0.4863	0.4863	100.0	Pass
28	0.6198	0.6198	100.0	Pass
29	0.4655	0.4655	100.0	Pass
30	0.5587	0.5587	100.0	Pass
31	0.3255	0.3255	100.0	Pass
Feb1	0.3785	0.3785	100.0	Pass
2	0.3480	0.3480	100.0	Pass
3	0.3127	0.3127	100.0	Pass
4	0.2895	0.2895	100.0	Pass
5	0.5467	0.5467	100.0	Pass
6	0.2634	0.2634	100.0	Pass
7	0.3981	0.3981	100.0	Pass
8	0.2983	0.2983	100.0	Pass
9	0.3658	0.3658	100.0	Pass
10	0.4890	0.4890	100.0	Pass
11	0.6401	0.6401	100.0	Pass
12	0.4927	0.4927	100.0	Pass
13	0.5337	0.5337	100.0	Pass
14	0.7563	0.7563	100.0	Pass
15	0.5355	0.5355	100.0	Pass
16	0.7149	0.7149	100.0	Pass
17	0.6223	0.6223	100.0	Pass
18	0.4824	0.4824	100.0	Pass
19	0.4216	0.4216	100.0	Pass
20	0.4090	0.4090	100.0	Pass
21	0.3356	0.3356	100.0	Pass
22	0.5001	0.5001	100.0	Pass
23	0.4727	0.4727	100.0	Pass
24	0.5208	0.5208	100.0	Pass
25	0.4627	0.4627	100.0	Pass
26	0.4526	0.4526	100.0	Pass
27	0.3973	0.3973	100.0	Pass
28	0.5045	0.5045	100.0	Pass
29	0.3846	0.3846	100.0	Pass
Mar1	0.3811	0.3811	100.0	Pass
2	0.3096	0.3096	100.0	Pass
3	0.4451	0.4451	100.0	Pass
4	0.4643	0.4643	100.0	Pass
5	0.3609	0.3609	100.0	Pass
6	0.4593	0.4593	100.0	Pass
7	0.4551	0.4551	100.0	Pass
8	0.4364	0.4364	100.0	Pass
9	0.4381	0.4381	100.0	Pass
10	0.3779	0.3779	100.0	Pass
11	0.4132	0.4132	100.0	Pass
12	0.3661	0.3661	100.0	Pass
13	0.4467	0.4467	100.0	Pass
14	0.3498	0.3498	100.0	Pass
15	0.2845	0.2845	100.0	Pass
16	0.2768	0.2768	100.0	Pass
17	0.3780	0.3780	100.0	Pass
18	0.2266	0.2266	100.0	Pass
19	0.3498	0.3498	100.0	Pass
20	0.2783	0.2783	100.0	Pass
21	0.4779	0.4779	100.0	Pass
22	0.5338	0.5338	100.0	Pass

23	0.4309	0.4309	100.0	Pass
24	0.2695	0.2695	100.0	Pass
25	0.4332	0.4332	100.0	Pass
26	0.3067	0.3067	100.0	Pass
27	0.2995	0.2995	100.0	Pass
28	0.3337	0.3337	100.0	Pass
29	0.3075	0.3075	100.0	Pass
30	0.2267	0.2267	100.0	Pass
31	0.1837	0.1837	100.0	Pass
Apr1	0.1988	0.1988	100.0	Pass
2	0.2256	0.2256	100.0	Pass
3	0.3166	0.3166	100.0	Pass
4	0.2809	0.2809	100.0	Pass
5	0.2993	0.2993	100.0	Pass
6	0.1570	0.1570	100.0	Pass
7	0.2730	0.2730	100.0	Pass
8	0.2706	0.2706	100.0	Pass
9	0.2426	0.2426	100.0	Pass
10	0.2359	0.2359	100.0	Pass
11	0.3340	0.3340	100.0	Pass
12	0.2800	0.2800	100.0	Pass
13	0.2950	0.2950	100.0	Pass
14	0.2484	0.2484	100.0	Pass
15	0.2652	0.2652	100.0	Pass
16	0.1441	0.1441	100.0	Pass
17	0.2064	0.2064	100.0	Pass
18	0.2383	0.2383	100.0	Pass
19	0.1224	0.1224	100.0	Pass
20	0.1230	0.1230	100.0	Pass
21	0.2133	0.2133	100.0	Pass
22	0.1772	0.1772	100.0	Pass
23	0.1524	0.1524	100.0	Pass
24	0.1219	0.1219	100.0	Pass
25	0.1504	0.1504	100.0	Pass
26	0.2508	0.2508	100.0	Pass
27	0.1916	0.1916	100.0	Pass
28	0.1988	0.1988	100.0	Pass
29	0.0927	0.0927	100.0	Pass
30	0.1320	0.1320	100.0	Pass
May1	0.2086	0.2086	100.0	Pass
2	0.1456	0.1456	100.0	Pass
3	0.1612	0.1612	100.0	Pass
4	0.1229	0.1229	100.0	Pass
5	0.1199	0.1199	100.0	Pass
6	0.1020	0.1020	100.0	Pass
7	0.1367	0.1367	100.0	Pass
8	0.0816	0.0816	100.0	Pass
9	0.1184	0.1184	100.0	Pass
10	0.0954	0.0954	100.0	Pass
11	0.0902	0.0902	100.0	Pass
12	0.1279	0.1279	100.0	Pass
13	0.1372	0.1372	100.0	Pass
14	0.1336	0.1336	100.0	Pass
15	0.0865	0.0865	100.0	Pass
16	0.1173	0.1173	100.0	Pass
17	0.0936	0.0936	100.0	Pass
18	0.1571	0.1571	100.0	Pass

19	0.0799	0.0799	100.0	Pass
20	0.0801	0.0801	100.0	Pass
21	0.0827	0.0827	100.0	Pass
22	0.1009	0.1009	100.0	Pass
23	0.0874	0.0874	100.0	Pass
24	0.0921	0.0921	100.0	Pass
25	0.0763	0.0763	100.0	Pass
26	0.1358	0.1358	100.0	Pass
27	0.1042	0.1042	100.0	Pass
28	0.1132	0.1132	100.0	Pass
29	0.1538	0.1538	100.0	Pass
30	0.0975	0.0975	100.0	Pass
31	0.1069	0.1069	100.0	Pass
Jun1	0.0792	0.0792	100.0	Pass
2	0.1369	0.1369	100.0	Pass
3	0.1277	0.1277	100.0	Pass
4	0.0929	0.0929	100.0	Pass
5	0.1552	0.1552	100.0	Pass
6	0.0546	0.0546	100.0	Pass
7	0.0875	0.0875	100.0	Pass
8	0.1271	0.1271	100.0	Pass
9	0.0947	0.0947	100.0	Pass
10	0.0914	0.0914	100.0	Pass
11	0.0651	0.0651	100.0	Pass
12	0.0820	0.0820	100.0	Pass
13	0.1297	0.1297	100.0	Pass
14	0.0506	0.0506	100.0	Pass
15	0.1057	0.1057	100.0	Pass
16	0.0437	0.0437	100.0	Pass
17	0.0640	0.0640	100.0	Pass
18	0.0422	0.0422	100.0	Pass
19	0.0534	0.0534	100.0	Pass
20	0.0599	0.0599	100.0	Pass
21	0.0562	0.0562	100.0	Pass
22	0.0312	0.0312	100.0	Pass
23	0.1658	0.1658	100.0	Pass
24	0.0392	0.0392	100.0	Pass
25	0.0725	0.0725	100.0	Pass
26	0.0436	0.0436	100.0	Pass
27	0.0405	0.0405	100.0	Pass
28	0.0418	0.0418	100.0	Pass
29	0.0545	0.0545	100.0	Pass
30	0.1150	0.1150	100.0	Pass
Jul1	0.0277	0.0277	100.0	Pass
2	0.0250	0.0250	100.0	Pass
3	0.0283	0.0283	100.0	Pass
4	0.0692	0.0692	100.0	Pass
5	0.0504	0.0504	100.0	Pass
6	0.0385	0.0385	100.0	Pass
7	0.0726	0.0726	100.0	Pass
8	0.0400	0.0400	100.0	Pass
9	0.0860	0.0860	100.0	Pass
10	0.0548	0.0548	100.0	Pass
11	0.1099	0.1099	100.0	Pass
12	0.0506	0.0506	100.0	Pass
13	0.0401	0.0401	100.0	Pass
14	0.0638	0.0638	100.0	Pass

15	0.0259	0.0259	100.0	Pass
16	0.0163	0.0163	100.0	Pass
17	0.0554	0.0554	100.0	Pass
18	0.0175	0.0175	100.0	Pass
19	0.0241	0.0241	100.0	Pass
20	0.0414	0.0414	100.0	Pass
21	0.0320	0.0320	100.0	Pass
22	0.0020	0.0020	100.0	Pass
23	0.0093	0.0093	100.0	Pass
24	0.0107	0.0107	100.0	Pass
25	0.0249	0.0249	100.0	Pass
26	0.0110	0.0110	100.0	Pass
27	0.0155	0.0155	100.0	Pass
28	0.0131	0.0131	100.0	Pass
29	0.0084	0.0084	100.0	Pass
30	0.0147	0.0147	100.0	Pass
31	0.0164	0.0164	100.0	Pass
Aug1	0.0666	0.0666	100.0	Pass
2	0.0228	0.0228	100.0	Pass
3	0.0092	0.0092	100.0	Pass
4	0.0089	0.0089	100.0	Pass
5	0.0753	0.0753	100.0	Pass
6	0.0509	0.0509	100.0	Pass
7	0.0180	0.0180	100.0	Pass
8	0.0187	0.0187	100.0	Pass
9	0.0017	0.0017	100.0	Pass
10	0.0104	0.0104	100.0	Pass
11	0.0486	0.0486	100.0	Pass
12	0.0424	0.0424	100.0	Pass
13	0.0522	0.0522	100.0	Pass
14	0.0310	0.0310	100.0	Pass
15	0.0278	0.0278	100.0	Pass
16	0.0253	0.0253	100.0	Pass
17	0.0494	0.0494	100.0	Pass
18	0.0926	0.0926	100.0	Pass
19	0.0249	0.0249	100.0	Pass
20	0.0725	0.0725	100.0	Pass
21	0.0650	0.0650	100.0	Pass
22	0.1277	0.1277	100.0	Pass
23	0.1172	0.1172	100.0	Pass
24	0.0976	0.0976	100.0	Pass
25	0.0390	0.0390	100.0	Pass
26	0.1220	0.1220	100.0	Pass
27	0.1230	0.1230	100.0	Pass
28	0.1212	0.1212	100.0	Pass
29	0.0777	0.0777	100.0	Pass
30	0.1264	0.1264	100.0	Pass
31	0.1981	0.1981	100.0	Pass
Sep1	0.0726	0.0726	100.0	Pass
2	0.0759	0.0759	100.0	Pass
3	0.0845	0.0845	100.0	Pass
4	0.1075	0.1075	100.0	Pass
5	0.0909	0.0909	100.0	Pass
6	0.0632	0.0632	100.0	Pass
7	0.1239	0.1239	100.0	Pass
8	0.0774	0.0774	100.0	Pass
9	0.2023	0.2023	100.0	Pass

10	0.0447	0.0447	100.0	Pass
11	0.0399	0.0399	100.0	Pass
12	0.1087	0.1087	100.0	Pass
13	0.1978	0.1978	100.0	Pass
14	0.1240	0.1240	100.0	Pass
15	0.1910	0.1910	100.0	Pass
16	0.1978	0.1978	100.0	Pass
17	0.2177	0.2177	100.0	Pass
18	0.1945	0.1945	100.0	Pass
19	0.2068	0.2068	100.0	Pass
20	0.1472	0.1472	100.0	Pass
21	0.2062	0.2062	100.0	Pass
22	0.1641	0.1641	100.0	Pass
23	0.1316	0.1316	100.0	Pass
24	0.0939	0.0939	100.0	Pass
25	0.1025	0.1025	100.0	Pass
26	0.1027	0.1027	100.0	Pass
27	0.1391	0.1391	100.0	Pass
28	0.1225	0.1225	100.0	Pass
29	0.1625	0.1625	100.0	Pass
30	0.1145	0.1145	100.0	Pass
Oct1	0.0813	0.0813	100.0	Pass
2	0.2103	0.2103	100.0	Pass
3	0.1857	0.1857	100.0	Pass
4	0.2266	0.2266	100.0	Pass
5	0.2402	0.2402	100.0	Pass
6	0.2644	0.2644	100.0	Pass
7	0.3380	0.3380	100.0	Pass
8	0.2710	0.2710	100.0	Pass
9	0.2090	0.2090	100.0	Pass
10	0.1710	0.1710	100.0	Pass
11	0.3329	0.3329	100.0	Pass
12	0.2190	0.2190	100.0	Pass
13	0.3106	0.3106	100.0	Pass
14	0.1704	0.1704	100.0	Pass
15	0.2072	0.2072	100.0	Pass
16	0.2771	0.2771	100.0	Pass
17	0.2532	0.2532	100.0	Pass
18	0.4083	0.4083	100.0	Pass
19	0.4998	0.4998	100.0	Pass
20	0.4287	0.4287	100.0	Pass
21	0.5185	0.5185	100.0	Pass
22	0.2947	0.2947	100.0	Pass
23	0.5041	0.5041	100.0	Pass
24	0.4386	0.4386	100.0	Pass
25	0.3898	0.3898	100.0	Pass
26	0.4775	0.4775	100.0	Pass
27	0.4000	0.4000	100.0	Pass
28	0.3731	0.3731	100.0	Pass
29	0.3134	0.3134	100.0	Pass
30	0.4757	0.4757	100.0	Pass
31	0.3929	0.3929	100.0	Pass
Nov1	0.4993	0.4993	100.0	Pass
2	0.6100	0.6100	100.0	Pass
3	0.4613	0.4613	100.0	Pass
4	0.4732	0.4732	100.0	Pass
5	0.5244	0.5244	100.0	Pass

6	0.4314	0.4314	100.0	Pass
7	0.3916	0.3916	100.0	Pass
8	0.5164	0.5164	100.0	Pass
9	0.6087	0.6087	100.0	Pass
10	0.5150	0.5150	100.0	Pass
11	0.5788	0.5788	100.0	Pass
12	0.5348	0.5348	100.0	Pass
13	0.3906	0.3906	100.0	Pass
14	0.4699	0.4699	100.0	Pass
15	0.5273	0.5273	100.0	Pass
16	0.5529	0.5529	100.0	Pass
17	0.5002	0.5002	100.0	Pass
18	0.7457	0.7457	100.0	Pass
19	0.6561	0.6561	100.0	Pass
20	0.4226	0.4226	100.0	Pass
21	0.6901	0.6901	100.0	Pass
22	0.8223	0.8223	100.0	Pass
23	0.6081	0.6081	100.0	Pass
24	0.7047	0.7047	100.0	Pass
25	0.4501	0.4501	100.0	Pass
26	0.3651	0.3651	100.0	Pass
27	0.4602	0.4602	100.0	Pass
28	0.4391	0.4391	100.0	Pass
29	0.7406	0.7406	100.0	Pass
30	0.5765	0.5765	100.0	Pass
Dec1	0.6426	0.6426	100.0	Pass
2	0.6160	0.6160	100.0	Pass
3	0.3856	0.3856	100.0	Pass
4	0.4390	0.4390	100.0	Pass
5	0.3719	0.3719	100.0	Pass
6	0.3260	0.3260	100.0	Pass
7	0.4812	0.4812	100.0	Pass
8	0.6052	0.6052	100.0	Pass
9	0.5918	0.5918	100.0	Pass
10	0.6376	0.6376	100.0	Pass
11	0.4577	0.4577	100.0	Pass
12	0.5028	0.5028	100.0	Pass
13	0.7619	0.7619	100.0	Pass
14	0.5083	0.5083	100.0	Pass
15	0.6851	0.6851	100.0	Pass
16	0.4447	0.4447	100.0	Pass
17	0.5462	0.5462	100.0	Pass
18	0.4445	0.4445	100.0	Pass
19	0.5322	0.5322	100.0	Pass
20	0.5145	0.5145	100.0	Pass
21	0.5667	0.5667	100.0	Pass
22	0.5588	0.5588	100.0	Pass
23	0.6103	0.6103	100.0	Pass
24	0.6801	0.6801	100.0	Pass
25	0.5771	0.5771	100.0	Pass
26	0.5254	0.5254	100.0	Pass
27	0.3466	0.3466	100.0	Pass
28	0.5718	0.5718	100.0	Pass
29	0.3633	0.3633	100.0	Pass
30	0.3879	0.3879	100.0	Pass
31	0.6686	0.6686	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #2

Total Pervious Area:0.3

Total Impervious Area:0.658

Mitigated Landuse Totals for POC #2

Total Pervious Area:0.3

Total Impervious Area:0.658

Flow Frequency Return Periods for Predeveloped. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.603399
5 year	0.727899
10 year	0.796016
25 year	0.870204
50 year	0.918676
100 year	0.962458

Flow Frequency Return Periods for Mitigated. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.603399
5 year	0.727899
10 year	0.796016
25 year	0.870204
50 year	0.918676
100 year	0.962458

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #2

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.659	0.659
1957	0.801	0.801
1958	0.603	0.603
1959	0.622	0.622
1960	0.652	0.652
1961	0.488	0.488
1962	0.863	0.863
1963	0.787	0.787
1964	0.662	0.662
1965	0.672	0.672
1966	0.665	0.665
1967	0.404	0.404
1968	0.635	0.635
1969	0.610	0.610
1970	0.543	0.543
1971	0.876	0.876
1972	0.747	0.747
1973	0.675	0.675

1974	0.663	0.663
1975	0.575	0.575
1976	0.711	0.711
1977	0.503	0.503
1978	0.889	0.889
1979	0.562	0.562
1980	0.509	0.509
1981	0.652	0.652
1982	0.753	0.753
1983	0.595	0.595
1984	0.557	0.557
1985	0.395	0.395
1986	0.674	0.674
1987	0.466	0.466
1988	0.715	0.715
1989	0.594	0.594
1990	0.791	0.791
1991	0.484	0.484
1992	0.383	0.383
1993	0.425	0.425
1994	0.562	0.562
1995	0.504	0.504
1996	0.624	0.624
1997	0.649	0.649
1998	0.394	0.394
1999	0.513	0.513
2000	0.474	0.474
2001	0.445	0.445
2002	0.639	0.639
2003	0.842	0.842
2004	0.773	0.773
2005	0.604	0.604
2006	0.618	0.618
2007	0.738	0.738
2008	0.363	0.363
2009	0.339	0.339

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	0.8889	0.8889
2	0.8761	0.8761
3	0.8630	0.8630
4	0.8422	0.8422
5	0.8010	0.8010
6	0.7912	0.7912
7	0.7871	0.7871
8	0.7734	0.7734
9	0.7530	0.7530
10	0.7474	0.7474
11	0.7381	0.7381
12	0.7150	0.7150
13	0.7105	0.7105
14	0.6749	0.6749
15	0.6742	0.6742
16	0.6718	0.6718

17	0.6652	0.6652
18	0.6632	0.6632
19	0.6622	0.6622
20	0.6587	0.6587
21	0.6518	0.6518
22	0.6517	0.6517
23	0.6494	0.6494
24	0.6393	0.6393
25	0.6346	0.6346
26	0.6239	0.6239
27	0.6223	0.6223
28	0.6180	0.6180
29	0.6103	0.6103
30	0.6040	0.6040
31	0.6034	0.6034
32	0.5952	0.5952
33	0.5943	0.5943
34	0.5748	0.5748
35	0.5622	0.5622
36	0.5622	0.5622
37	0.5566	0.5566
38	0.5434	0.5434
39	0.5130	0.5130
40	0.5085	0.5085
41	0.5040	0.5040
42	0.5026	0.5026
43	0.4885	0.4885
44	0.4838	0.4838
45	0.4737	0.4737
46	0.4656	0.4656
47	0.4447	0.4447
48	0.4253	0.4253
49	0.4036	0.4036
50	0.3949	0.3949
51	0.3940	0.3940
52	0.3828	0.3828
53	0.3626	0.3626
54	0.3385	0.3385

Stream Protection Duration

POC #2

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3017	933	933	100	Pass
0.3079	862	862	100	Pass
0.3142	794	794	100	Pass
0.3204	755	755	100	Pass
0.3266	697	697	100	Pass
0.3329	647	647	100	Pass
0.3391	594	594	100	Pass
0.3453	559	559	100	Pass
0.3516	528	528	100	Pass
0.3578	495	495	100	Pass

0.3640	455	455	100	Pass
0.3703	421	421	100	Pass
0.3765	396	396	100	Pass
0.3827	373	373	100	Pass
0.3889	343	343	100	Pass
0.3952	319	319	100	Pass
0.4014	300	300	100	Pass
0.4076	283	283	100	Pass
0.4139	260	260	100	Pass
0.4201	245	245	100	Pass
0.4263	231	231	100	Pass
0.4326	219	219	100	Pass
0.4388	209	209	100	Pass
0.4450	196	196	100	Pass
0.4513	185	185	100	Pass
0.4575	179	179	100	Pass
0.4637	168	168	100	Pass
0.4700	162	162	100	Pass
0.4762	153	153	100	Pass
0.4824	145	145	100	Pass
0.4887	137	137	100	Pass
0.4949	133	133	100	Pass
0.5011	126	126	100	Pass
0.5074	113	113	100	Pass
0.5136	103	103	100	Pass
0.5198	97	97	100	Pass
0.5261	96	96	100	Pass
0.5323	93	93	100	Pass
0.5385	89	89	100	Pass
0.5448	87	87	100	Pass
0.5510	83	83	100	Pass
0.5572	80	80	100	Pass
0.5634	77	77	100	Pass
0.5697	72	72	100	Pass
0.5759	69	69	100	Pass
0.5821	63	63	100	Pass
0.5884	61	61	100	Pass
0.5946	56	56	100	Pass
0.6008	53	53	100	Pass
0.6071	49	49	100	Pass
0.6133	47	47	100	Pass
0.6195	46	46	100	Pass
0.6258	43	43	100	Pass
0.6320	42	42	100	Pass
0.6382	41	41	100	Pass
0.6445	40	40	100	Pass
0.6507	38	38	100	Pass
0.6569	35	35	100	Pass
0.6632	32	32	100	Pass
0.6694	28	28	100	Pass
0.6756	24	24	100	Pass
0.6819	24	24	100	Pass
0.6881	23	23	100	Pass
0.6943	22	22	100	Pass
0.7006	21	21	100	Pass
0.7068	20	20	100	Pass
0.7130	19	19	100	Pass

0.7192	17	17	100	Pass
0.7255	16	16	100	Pass
0.7317	15	15	100	Pass
0.7379	15	15	100	Pass
0.7442	13	13	100	Pass
0.7504	11	11	100	Pass
0.7566	10	10	100	Pass
0.7629	10	10	100	Pass
0.7691	10	10	100	Pass
0.7753	9	9	100	Pass
0.7816	9	9	100	Pass
0.7878	9	9	100	Pass
0.7940	7	7	100	Pass
0.8003	7	7	100	Pass
0.8065	5	5	100	Pass
0.8127	5	5	100	Pass
0.8190	5	5	100	Pass
0.8252	5	5	100	Pass
0.8314	4	4	100	Pass
0.8377	4	4	100	Pass
0.8439	3	3	100	Pass
0.8501	3	3	100	Pass
0.8564	3	3	100	Pass
0.8626	3	3	100	Pass
0.8688	2	2	100	Pass
0.8751	2	2	100	Pass
0.8813	1	1	100	Pass
0.8875	1	1	100	Pass
0.8937	0	0	100	Pass
0.9000	0	0	0	Pass
0.9062	0	0	0	Pass
0.9124	0	0	0	Pass
0.9187	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #2
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 2

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	39.5598	39.5598	100.0	Pass
Feb	30.3965	30.3965	100.0	Pass
Mar	27.0165	27.0165	100.0	Pass
Apr	15.0280	15.0280	100.0	Pass
May	7.9132	7.9132	100.0	Pass
Jun	5.1900	5.1900	100.0	Pass
Jul	2.5245	2.5245	100.0	Pass
Aug	3.7063	3.7063	100.0	Pass
Sep	8.6131	8.6131	100.0	Pass

Oct	21.4508	21.4508	100.0	Pass
Nov	37.2298	37.2298	100.0	Pass
Dec	38.1632	38.1632	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.2643	1.2643	100.0	Pass
2	1.0127	1.0127	100.0	Pass
3	1.2628	1.2628	100.0	Pass
4	1.4645	1.4645	100.0	Pass
5	1.1021	1.1021	100.0	Pass
6	1.5978	1.5978	100.0	Pass
7	1.2783	1.2783	100.0	Pass
8	1.2749	1.2749	100.0	Pass
9	1.3436	1.3436	100.0	Pass
10	1.3218	1.3218	100.0	Pass
11	1.5993	1.5993	100.0	Pass
12	1.2787	1.2787	100.0	Pass
13	1.5819	1.5819	100.0	Pass
14	1.5846	1.5846	100.0	Pass
15	1.4569	1.4569	100.0	Pass
16	1.2187	1.2187	100.0	Pass
17	1.1598	1.1598	100.0	Pass
18	1.0264	1.0264	100.0	Pass
19	1.0119	1.0119	100.0	Pass
20	0.6895	0.6895	100.0	Pass
21	1.2232	1.2232	100.0	Pass
22	1.5069	1.5069	100.0	Pass
23	1.6989	1.6989	100.0	Pass
24	1.1970	1.1970	100.0	Pass
25	1.0199	1.0199	100.0	Pass
26	0.9205	0.9205	100.0	Pass
27	1.1262	1.1262	100.0	Pass
28	1.4204	1.4204	100.0	Pass
29	1.1146	1.1146	100.0	Pass
30	1.2955	1.2955	100.0	Pass
31	0.8146	0.8146	100.0	Pass
Feb1	0.9032	0.9032	100.0	Pass
2	0.8203	0.8203	100.0	Pass
3	0.7468	0.7468	100.0	Pass
4	0.6914	0.6914	100.0	Pass
5	1.2254	1.2254	100.0	Pass
6	0.6643	0.6643	100.0	Pass
7	0.9155	0.9155	100.0	Pass
8	0.7145	0.7145	100.0	Pass
9	0.8367	0.8367	100.0	Pass
10	1.1011	1.1011	100.0	Pass
11	1.4573	1.4573	100.0	Pass
12	1.1763	1.1763	100.0	Pass
13	1.2412	1.2412	100.0	Pass
14	1.7077	1.7077	100.0	Pass
15	1.2950	1.2950	100.0	Pass
16	1.6470	1.6470	100.0	Pass
17	1.4741	1.4741	100.0	Pass
18	1.1907	1.1907	100.0	Pass
19	1.0330	1.0330	100.0	Pass
20	0.9886	0.9886	100.0	Pass
21	0.8122	0.8122	100.0	Pass

	22	1.1535	1.1535	100.0	Pass
	23	1.1056	1.1056	100.0	Pass
	24	1.2135	1.2135	100.0	Pass
	25	1.1003	1.1003	100.0	Pass
	26	1.0817	1.0817	100.0	Pass
	27	0.9566	0.9566	100.0	Pass
	28	1.1905	1.1905	100.0	Pass
	29	0.9162	0.9162	100.0	Pass
Mar	1	0.8998	0.8998	100.0	Pass
	2	0.7467	0.7467	100.0	Pass
	3	1.0210	1.0210	100.0	Pass
	4	1.0740	1.0740	100.0	Pass
	5	0.8566	0.8566	100.0	Pass
	6	1.0741	1.0741	100.0	Pass
	7	1.0489	1.0489	100.0	Pass
	8	1.0234	1.0234	100.0	Pass
	9	1.0281	1.0281	100.0	Pass
	10	0.9034	0.9034	100.0	Pass
	11	0.9718	0.9718	100.0	Pass
	12	0.8654	0.8654	100.0	Pass
	13	1.0367	1.0367	100.0	Pass
	14	0.8379	0.8379	100.0	Pass
	15	0.6887	0.6887	100.0	Pass
	16	0.6564	0.6564	100.0	Pass
	17	0.8774	0.8774	100.0	Pass
	18	0.5557	0.5557	100.0	Pass
	19	0.7984	0.7984	100.0	Pass
	20	0.6543	0.6543	100.0	Pass
	21	1.0700	1.0700	100.0	Pass
	22	1.2058	1.2058	100.0	Pass
	23	1.0226	1.0226	100.0	Pass
	24	0.6819	0.6819	100.0	Pass
	25	0.9942	0.9942	100.0	Pass
	26	0.7442	0.7442	100.0	Pass
	27	0.7047	0.7047	100.0	Pass
	28	0.7861	0.7861	100.0	Pass
	29	0.7218	0.7218	100.0	Pass
	30	0.5525	0.5525	100.0	Pass
	31	0.4475	0.4475	100.0	Pass
Apr	1	0.4678	0.4678	100.0	Pass
	2	0.5199	0.5199	100.0	Pass
	3	0.7014	0.7014	100.0	Pass
	4	0.6465	0.6465	100.0	Pass
	5	0.7018	0.7018	100.0	Pass
	6	0.3949	0.3949	100.0	Pass
	7	0.6150	0.6150	100.0	Pass
	8	0.6261	0.6261	100.0	Pass
	9	0.5575	0.5575	100.0	Pass
	10	0.5550	0.5550	100.0	Pass
	11	0.7411	0.7411	100.0	Pass
	12	0.6501	0.6501	100.0	Pass
	13	0.6751	0.6751	100.0	Pass
	14	0.5842	0.5842	100.0	Pass
	15	0.6216	0.6216	100.0	Pass
	16	0.3649	0.3649	100.0	Pass
	17	0.4737	0.4737	100.0	Pass
	18	0.5401	0.5401	100.0	Pass

19	0.3081	0.3081	100.0	Pass
20	0.2910	0.2910	100.0	Pass
21	0.4698	0.4698	100.0	Pass
22	0.4009	0.4009	100.0	Pass
23	0.3546	0.3546	100.0	Pass
24	0.2876	0.2876	100.0	Pass
25	0.3368	0.3368	100.0	Pass
26	0.5598	0.5598	100.0	Pass
27	0.4422	0.4422	100.0	Pass
28	0.4588	0.4588	100.0	Pass
29	0.2358	0.2358	100.0	Pass
30	0.2984	0.2984	100.0	Pass
May1	0.4517	0.4517	100.0	Pass
2	0.3371	0.3371	100.0	Pass
3	0.3601	0.3601	100.0	Pass
4	0.2860	0.2860	100.0	Pass
5	0.2734	0.2734	100.0	Pass
6	0.2316	0.2316	100.0	Pass
7	0.3009	0.3009	100.0	Pass
8	0.1914	0.1914	100.0	Pass
9	0.2595	0.2595	100.0	Pass
10	0.2121	0.2121	100.0	Pass
11	0.1991	0.1991	100.0	Pass
12	0.2781	0.2781	100.0	Pass
13	0.2987	0.2987	100.0	Pass
14	0.2913	0.2913	100.0	Pass
15	0.2035	0.2035	100.0	Pass
16	0.2553	0.2553	100.0	Pass
17	0.2116	0.2116	100.0	Pass
18	0.3319	0.3319	100.0	Pass
19	0.1838	0.1838	100.0	Pass
20	0.1760	0.1760	100.0	Pass
21	0.1815	0.1815	100.0	Pass
22	0.2144	0.2144	100.0	Pass
23	0.1914	0.1914	100.0	Pass
24	0.2021	0.2021	100.0	Pass
25	0.1715	0.1715	100.0	Pass
26	0.2894	0.2894	100.0	Pass
27	0.2307	0.2307	100.0	Pass
28	0.2464	0.2464	100.0	Pass
29	0.3340	0.3340	100.0	Pass
30	0.2213	0.2213	100.0	Pass
31	0.2401	0.2401	100.0	Pass
Jun1	0.1850	0.1850	100.0	Pass
2	0.2887	0.2887	100.0	Pass
3	0.2727	0.2727	100.0	Pass
4	0.2059	0.2059	100.0	Pass
5	0.3294	0.3294	100.0	Pass
6	0.1336	0.1336	100.0	Pass
7	0.1947	0.1947	100.0	Pass
8	0.2732	0.2732	100.0	Pass
9	0.2086	0.2086	100.0	Pass
10	0.1970	0.1970	100.0	Pass
11	0.1445	0.1445	100.0	Pass
12	0.1733	0.1733	100.0	Pass
13	0.2724	0.2724	100.0	Pass
14	0.1183	0.1183	100.0	Pass

15	0.2253	0.2253	100.0	Pass
16	0.1042	0.1042	100.0	Pass
17	0.1400	0.1400	100.0	Pass
18	0.0988	0.0988	100.0	Pass
19	0.1135	0.1135	100.0	Pass
20	0.1240	0.1240	100.0	Pass
21	0.1201	0.1201	100.0	Pass
22	0.0703	0.0703	100.0	Pass
23	0.3326	0.3326	100.0	Pass
24	0.0971	0.0971	100.0	Pass
25	0.1536	0.1536	100.0	Pass
26	0.0938	0.0938	100.0	Pass
27	0.0841	0.0841	100.0	Pass
28	0.0858	0.0858	100.0	Pass
29	0.1101	0.1101	100.0	Pass
30	0.2358	0.2358	100.0	Pass
Jul1	0.0653	0.0653	100.0	Pass
2	0.0545	0.0545	100.0	Pass
3	0.0583	0.0583	100.0	Pass
4	0.1350	0.1350	100.0	Pass
5	0.1006	0.1006	100.0	Pass
6	0.0777	0.0777	100.0	Pass
7	0.1485	0.1485	100.0	Pass
8	0.0888	0.0888	100.0	Pass
9	0.1752	0.1752	100.0	Pass
10	0.1170	0.1170	100.0	Pass
11	0.2341	0.2341	100.0	Pass
12	0.1257	0.1257	100.0	Pass
13	0.0940	0.0940	100.0	Pass
14	0.1356	0.1356	100.0	Pass
15	0.0593	0.0593	100.0	Pass
16	0.0370	0.0370	100.0	Pass
17	0.1139	0.1139	100.0	Pass
18	0.0420	0.0420	100.0	Pass
19	0.0517	0.0517	100.0	Pass
20	0.0840	0.0840	100.0	Pass
21	0.0685	0.0685	100.0	Pass
22	0.0083	0.0083	100.0	Pass
23	0.0201	0.0201	100.0	Pass
24	0.0217	0.0217	100.0	Pass
25	0.0482	0.0482	100.0	Pass
26	0.0215	0.0215	100.0	Pass
27	0.0300	0.0300	100.0	Pass
28	0.0260	0.0260	100.0	Pass
29	0.0172	0.0172	100.0	Pass
30	0.0287	0.0287	100.0	Pass
31	0.0320	0.0320	100.0	Pass
Aug1	0.1300	0.1300	100.0	Pass
2	0.0491	0.0491	100.0	Pass
3	0.0218	0.0218	100.0	Pass
4	0.0196	0.0196	100.0	Pass
5	0.1495	0.1495	100.0	Pass
6	0.1050	0.1050	100.0	Pass
7	0.0402	0.0402	100.0	Pass
8	0.0390	0.0390	100.0	Pass
9	0.0048	0.0048	100.0	Pass
10	0.0211	0.0211	100.0	Pass

11	0.0946	0.0946	100.0	Pass
12	0.0837	0.0837	100.0	Pass
13	0.1041	0.1041	100.0	Pass
14	0.0658	0.0658	100.0	Pass
15	0.0607	0.0607	100.0	Pass
16	0.0529	0.0529	100.0	Pass
17	0.0970	0.0970	100.0	Pass
18	0.1812	0.1812	100.0	Pass
19	0.0560	0.0560	100.0	Pass
20	0.1439	0.1439	100.0	Pass
21	0.1341	0.1341	100.0	Pass
22	0.2591	0.2591	100.0	Pass
23	0.2465	0.2465	100.0	Pass
24	0.2193	0.2193	100.0	Pass
25	0.0964	0.0964	100.0	Pass
26	0.2503	0.2503	100.0	Pass
27	0.2587	0.2587	100.0	Pass
28	0.2604	0.2604	100.0	Pass
29	0.1699	0.1699	100.0	Pass
30	0.2598	0.2598	100.0	Pass
31	0.4133	0.4133	100.0	Pass
Sep1	0.1759	0.1759	100.0	Pass
2	0.1724	0.1724	100.0	Pass
3	0.1840	0.1840	100.0	Pass
4	0.2260	0.2260	100.0	Pass
5	0.1942	0.1942	100.0	Pass
6	0.1378	0.1378	100.0	Pass
7	0.2516	0.2516	100.0	Pass
8	0.1659	0.1659	100.0	Pass
9	0.4082	0.4082	100.0	Pass
10	0.1052	0.1052	100.0	Pass
11	0.0879	0.0879	100.0	Pass
12	0.2208	0.2208	100.0	Pass
13	0.4056	0.4056	100.0	Pass
14	0.2698	0.2698	100.0	Pass
15	0.4004	0.4004	100.0	Pass
16	0.4308	0.4308	100.0	Pass
17	0.4637	0.4637	100.0	Pass
18	0.4187	0.4187	100.0	Pass
19	0.4520	0.4520	100.0	Pass
20	0.3390	0.3390	100.0	Pass
21	0.4605	0.4605	100.0	Pass
22	0.3706	0.3706	100.0	Pass
23	0.2964	0.2964	100.0	Pass
24	0.2132	0.2132	100.0	Pass
25	0.2213	0.2213	100.0	Pass
26	0.2213	0.2213	100.0	Pass
27	0.3021	0.3021	100.0	Pass
28	0.2625	0.2625	100.0	Pass
29	0.3431	0.3431	100.0	Pass
30	0.2549	0.2549	100.0	Pass
Oct1	0.1854	0.1854	100.0	Pass
2	0.4321	0.4321	100.0	Pass
3	0.3920	0.3920	100.0	Pass
4	0.4843	0.4843	100.0	Pass
5	0.5147	0.5147	100.0	Pass
6	0.5650	0.5650	100.0	Pass

7	0.7271	0.7271	100.0	Pass
8	0.6026	0.6026	100.0	Pass
9	0.4745	0.4745	100.0	Pass
10	0.3900	0.3900	100.0	Pass
11	0.7053	0.7053	100.0	Pass
12	0.4912	0.4912	100.0	Pass
13	0.6664	0.6664	100.0	Pass
14	0.4010	0.4010	100.0	Pass
15	0.4634	0.4634	100.0	Pass
16	0.6122	0.6122	100.0	Pass
17	0.5651	0.5651	100.0	Pass
18	0.8954	0.8954	100.0	Pass
19	1.1078	1.1078	100.0	Pass
20	0.9598	0.9598	100.0	Pass
21	1.1565	1.1565	100.0	Pass
22	0.7127	0.7127	100.0	Pass
23	1.1263	1.1263	100.0	Pass
24	0.9996	0.9996	100.0	Pass
25	0.8988	0.8988	100.0	Pass
26	1.0767	1.0767	100.0	Pass
27	0.9304	0.9304	100.0	Pass
28	0.8643	0.8643	100.0	Pass
29	0.7389	0.7389	100.0	Pass
30	1.0592	1.0592	100.0	Pass
31	0.9106	0.9106	100.0	Pass
Nov1	1.1369	1.1369	100.0	Pass
2	1.3523	1.3523	100.0	Pass
3	1.0897	1.0897	100.0	Pass
4	1.0886	1.0886	100.0	Pass
5	1.2035	1.2035	100.0	Pass
6	1.0190	1.0190	100.0	Pass
7	0.9238	0.9238	100.0	Pass
8	1.1637	1.1637	100.0	Pass
9	1.3766	1.3766	100.0	Pass
10	1.1956	1.1956	100.0	Pass
11	1.3280	1.3280	100.0	Pass
12	1.2297	1.2297	100.0	Pass
13	0.9492	0.9492	100.0	Pass
14	1.0842	1.0842	100.0	Pass
15	1.2095	1.2095	100.0	Pass
16	1.2645	1.2645	100.0	Pass
17	1.1649	1.1649	100.0	Pass
18	1.6857	1.6857	100.0	Pass
19	1.5259	1.5259	100.0	Pass
20	1.0386	1.0386	100.0	Pass
21	1.5794	1.5794	100.0	Pass
22	1.8489	1.8489	100.0	Pass
23	1.4486	1.4486	100.0	Pass
24	1.6408	1.6408	100.0	Pass
25	1.1168	1.1168	100.0	Pass
26	0.9053	0.9053	100.0	Pass
27	1.0689	1.0689	100.0	Pass
28	1.0221	1.0221	100.0	Pass
29	1.6603	1.6603	100.0	Pass
30	1.3591	1.3591	100.0	Pass
Dec1	1.4874	1.4874	100.0	Pass
2	1.4507	1.4507	100.0	Pass

3	0.9557	0.9557	100.0	Pass
4	1.0360	1.0360	100.0	Pass
5	0.8994	0.8994	100.0	Pass
6	0.7753	0.7753	100.0	Pass
7	1.0901	1.0901	100.0	Pass
8	1.3677	1.3677	100.0	Pass
9	1.3696	1.3696	100.0	Pass
10	1.4854	1.4854	100.0	Pass
11	1.0984	1.0984	100.0	Pass
12	1.1787	1.1787	100.0	Pass
13	1.7143	1.7143	100.0	Pass
14	1.2343	1.2343	100.0	Pass
15	1.5717	1.5717	100.0	Pass
16	1.0942	1.0942	100.0	Pass
17	1.2760	1.2760	100.0	Pass
18	1.0618	1.0618	100.0	Pass
19	1.2223	1.2223	100.0	Pass
20	1.2085	1.2085	100.0	Pass
21	1.3312	1.3312	100.0	Pass
22	1.3038	1.3038	100.0	Pass
23	1.4148	1.4148	100.0	Pass
24	1.5590	1.5590	100.0	Pass
25	1.3760	1.3760	100.0	Pass
26	1.2618	1.2618	100.0	Pass
27	0.8591	0.8591	100.0	Pass
28	1.3089	1.3089	100.0	Pass
29	0.8947	0.8947	100.0	Pass
30	0.9192	0.9192	100.0	Pass
31	1.5088	1.5088	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #3

Total Pervious Area:0
Total Impervious Area:0.087

Mitigated Landuse Totals for POC #3

Total Pervious Area:0
Total Impervious Area:0.087

Flow Frequency Return Periods for Predeveloped. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.063679
5 year	0.075
10 year	0.081242
25 year	0.088109
50 year	0.092644
100 year	0.096781

Flow Frequency Return Periods for Mitigated. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.063679
5 year	0.075
10 year	0.081242
25 year	0.088109
50 year	0.092644
100 year	0.096781

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #3

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.065	0.065
1957	0.083	0.083
1958	0.065	0.065
1959	0.063	0.063
1960	0.065	0.065
1961	0.056	0.056
1962	0.086	0.086
1963	0.079	0.079
1964	0.070	0.070
1965	0.069	0.069
1966	0.067	0.067
1967	0.044	0.044
1968	0.065	0.065
1969	0.061	0.061
1970	0.060	0.060
1971	0.088	0.088
1972	0.074	0.074
1973	0.071	0.071
1974	0.066	0.066
1975	0.060	0.060
1976	0.072	0.072
1977	0.054	0.054
1978	0.093	0.093
1979	0.058	0.058
1980	0.054	0.054
1981	0.069	0.069
1982	0.080	0.080
1983	0.063	0.063
1984	0.057	0.057
1985	0.046	0.046
1986	0.070	0.070
1987	0.049	0.049
1988	0.073	0.073
1989	0.063	0.063
1990	0.079	0.079
1991	0.056	0.056
1992	0.043	0.043
1993	0.049	0.049
1994	0.059	0.059
1995	0.061	0.061
1996	0.074	0.074
1997	0.069	0.069
1998	0.045	0.045
1999	0.055	0.055
2000	0.052	0.052

2001	0.051	0.051
2002	0.081	0.081
2003	0.083	0.083
2004	0.078	0.078
2005	0.063	0.063
2006	0.064	0.064
2007	0.074	0.074
2008	0.041	0.041
2009	0.039	0.039

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	0.0929	0.0929
2	0.0878	0.0878
3	0.0856	0.0856
4	0.0833	0.0833
5	0.0832	0.0832
6	0.0809	0.0809
7	0.0797	0.0797
8	0.0793	0.0793
9	0.0791	0.0791
10	0.0782	0.0782
11	0.0742	0.0742
12	0.0736	0.0736
13	0.0735	0.0735
14	0.0734	0.0734
15	0.0724	0.0724
16	0.0710	0.0710
17	0.0701	0.0701
18	0.0696	0.0696
19	0.0693	0.0693
20	0.0692	0.0692
21	0.0688	0.0688
22	0.0665	0.0665
23	0.0661	0.0661
24	0.0654	0.0654
25	0.0653	0.0653
26	0.0649	0.0649
27	0.0649	0.0649
28	0.0635	0.0635
29	0.0628	0.0628
30	0.0627	0.0627
31	0.0627	0.0627
32	0.0625	0.0625
33	0.0610	0.0610
34	0.0609	0.0609
35	0.0604	0.0604
36	0.0596	0.0596
37	0.0591	0.0591
38	0.0579	0.0579
39	0.0574	0.0574
40	0.0561	0.0561
41	0.0559	0.0559
42	0.0548	0.0548
43	0.0541	0.0541

44	0.0535	0.0535
45	0.0520	0.0520
46	0.0510	0.0510
47	0.0488	0.0488
48	0.0486	0.0486
49	0.0460	0.0460
50	0.0454	0.0454
51	0.0439	0.0439
52	0.0435	0.0435
53	0.0408	0.0408
54	0.0389	0.0389

Stream Protection Duration

POC #3

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.0318	1215	1215	100	Pass
0.0325	1129	1129	100	Pass
0.0331	1060	1060	100	Pass
0.0337	985	985	100	Pass
0.0343	925	925	100	Pass
0.0349	862	862	100	Pass
0.0355	793	793	100	Pass
0.0361	735	735	100	Pass
0.0368	681	681	100	Pass
0.0374	631	631	100	Pass
0.0380	578	578	100	Pass
0.0386	539	539	100	Pass
0.0392	499	499	100	Pass
0.0398	467	467	100	Pass
0.0404	424	424	100	Pass
0.0411	394	394	100	Pass
0.0417	367	367	100	Pass
0.0423	345	345	100	Pass
0.0429	326	326	100	Pass
0.0435	305	305	100	Pass
0.0441	288	288	100	Pass
0.0447	272	272	100	Pass
0.0454	255	255	100	Pass
0.0460	236	236	100	Pass
0.0466	226	226	100	Pass
0.0472	217	217	100	Pass
0.0478	210	210	100	Pass
0.0484	196	196	100	Pass
0.0490	189	189	100	Pass
0.0497	178	178	100	Pass
0.0503	169	169	100	Pass
0.0509	161	161	100	Pass
0.0515	154	154	100	Pass
0.0521	141	141	100	Pass
0.0527	131	131	100	Pass
0.0533	123	123	100	Pass
0.0540	115	115	100	Pass

0.0546	110	110	100	Pass
0.0552	106	106	100	Pass
0.0558	102	102	100	Pass
0.0564	96	96	100	Pass
0.0570	94	94	100	Pass
0.0576	86	86	100	Pass
0.0582	80	80	100	Pass
0.0589	76	76	100	Pass
0.0595	71	71	100	Pass
0.0601	68	68	100	Pass
0.0607	63	63	100	Pass
0.0613	60	60	100	Pass
0.0619	56	56	100	Pass
0.0625	56	56	100	Pass
0.0632	50	50	100	Pass
0.0638	48	48	100	Pass
0.0644	47	47	100	Pass
0.0650	45	45	100	Pass
0.0656	39	39	100	Pass
0.0662	35	35	100	Pass
0.0668	34	34	100	Pass
0.0675	34	34	100	Pass
0.0681	33	33	100	Pass
0.0687	32	32	100	Pass
0.0693	29	29	100	Pass
0.0699	27	27	100	Pass
0.0705	26	26	100	Pass
0.0711	24	24	100	Pass
0.0718	24	24	100	Pass
0.0724	24	24	100	Pass
0.0730	23	23	100	Pass
0.0736	17	17	100	Pass
0.0742	17	17	100	Pass
0.0748	15	15	100	Pass
0.0754	14	14	100	Pass
0.0761	13	13	100	Pass
0.0767	12	12	100	Pass
0.0773	12	12	100	Pass
0.0779	12	12	100	Pass
0.0785	11	11	100	Pass
0.0791	9	9	100	Pass
0.0797	7	7	100	Pass
0.0804	7	7	100	Pass
0.0810	6	6	100	Pass
0.0816	6	6	100	Pass
0.0822	6	6	100	Pass
0.0828	5	5	100	Pass
0.0834	3	3	100	Pass
0.0840	3	3	100	Pass
0.0847	3	3	100	Pass
0.0853	3	3	100	Pass
0.0859	2	2	100	Pass
0.0865	2	2	100	Pass
0.0871	2	2	100	Pass
0.0877	2	2	100	Pass
0.0883	1	1	100	Pass
0.0890	1	1	100	Pass

0.0896	1	1	100	Pass
0.0902	1	1	100	Pass
0.0908	1	1	100	Pass
0.0914	1	1	100	Pass
0.0920	1	1	100	Pass
0.0926	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #3
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 3

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	3.8353	3.8353	100.0	Pass
Feb	2.9282	2.9282	100.0	Pass
Mar	2.6135	2.6135	100.0	Pass
Apr	1.4869	1.4869	100.0	Pass
May	0.8384	0.8384	100.0	Pass
Jun	0.5689	0.5689	100.0	Pass
Jul	0.2872	0.2872	100.0	Pass
Aug	0.4321	0.4321	100.0	Pass
Sep	0.9499	0.9499	100.0	Pass
Oct	2.2449	2.2449	100.0	Pass
Nov	3.6858	3.6858	100.0	Pass
Dec	3.6964	3.6964	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.1235	0.1235	100.0	Pass
2	0.0948	0.0948	100.0	Pass
3	0.1247	0.1247	100.0	Pass
4	0.1491	0.1491	100.0	Pass
5	0.1029	0.1029	100.0	Pass
6	0.1636	0.1636	100.0	Pass
7	0.1204	0.1204	100.0	Pass
8	0.1225	0.1225	100.0	Pass
9	0.1332	0.1332	100.0	Pass
10	0.1270	0.1270	100.0	Pass
11	0.1582	0.1582	100.0	Pass
12	0.1198	0.1198	100.0	Pass
13	0.1564	0.1564	100.0	Pass
14	0.1541	0.1541	100.0	Pass
15	0.1389	0.1389	100.0	Pass
16	0.1103	0.1103	100.0	Pass
17	0.1070	0.1070	100.0	Pass
18	0.0945	0.0945	100.0	Pass
19	0.0964	0.0964	100.0	Pass
20	0.0600	0.0600	100.0	Pass
21	0.1303	0.1303	100.0	Pass
22	0.1528	0.1528	100.0	Pass

23	0.1687	0.1687	100.0	Pass
24	0.1088	0.1088	100.0	Pass
25	0.0922	0.0922	100.0	Pass
26	0.0834	0.0834	100.0	Pass
27	0.1114	0.1114	100.0	Pass
28	0.1429	0.1429	100.0	Pass
29	0.1046	0.1046	100.0	Pass
30	0.1279	0.1279	100.0	Pass
31	0.0712	0.0712	100.0	Pass
Feb1	0.0852	0.0852	100.0	Pass
2	0.0789	0.0789	100.0	Pass
3	0.0704	0.0704	100.0	Pass
4	0.0652	0.0652	100.0	Pass
5	0.1276	0.1276	100.0	Pass
6	0.0573	0.0573	100.0	Pass
7	0.0916	0.0916	100.0	Pass
8	0.0670	0.0670	100.0	Pass
9	0.0844	0.0844	100.0	Pass
10	0.1138	0.1138	100.0	Pass
11	0.1481	0.1481	100.0	Pass
12	0.1109	0.1109	100.0	Pass
13	0.1220	0.1220	100.0	Pass
14	0.1758	0.1758	100.0	Pass
15	0.1196	0.1196	100.0	Pass
16	0.1643	0.1643	100.0	Pass
17	0.1407	0.1407	100.0	Pass
18	0.1064	0.1064	100.0	Pass
19	0.0934	0.0934	100.0	Pass
20	0.0914	0.0914	100.0	Pass
21	0.0749	0.0749	100.0	Pass
22	0.1148	0.1148	100.0	Pass
23	0.1077	0.1077	100.0	Pass
24	0.1189	0.1189	100.0	Pass
25	0.1044	0.1044	100.0	Pass
26	0.1018	0.1018	100.0	Pass
27	0.0890	0.0890	100.0	Pass
28	0.1144	0.1144	100.0	Pass
29	0.0867	0.0867	100.0	Pass
Mar1	0.0864	0.0864	100.0	Pass
2	0.0693	0.0693	100.0	Pass
3	0.1025	0.1025	100.0	Pass
4	0.1065	0.1065	100.0	Pass
5	0.0815	0.0815	100.0	Pass
6	0.1047	0.1047	100.0	Pass
7	0.1046	0.1046	100.0	Pass
8	0.0993	0.0993	100.0	Pass
9	0.0996	0.0996	100.0	Pass
10	0.0850	0.0850	100.0	Pass
11	0.0938	0.0938	100.0	Pass
12	0.0829	0.0829	100.0	Pass
13	0.1022	0.1022	100.0	Pass
14	0.0786	0.0786	100.0	Pass
15	0.0635	0.0635	100.0	Pass
16	0.0626	0.0626	100.0	Pass
17	0.0865	0.0865	100.0	Pass
18	0.0502	0.0502	100.0	Pass
19	0.0808	0.0808	100.0	Pass

20	0.0632	0.0632	100.0	Pass
21	0.1116	0.1116	100.0	Pass
22	0.1240	0.1240	100.0	Pass
23	0.0973	0.0973	100.0	Pass
24	0.0585	0.0585	100.0	Pass
25	0.0998	0.0998	100.0	Pass
26	0.0684	0.0684	100.0	Pass
27	0.0680	0.0680	100.0	Pass
28	0.0757	0.0757	100.0	Pass
29	0.0699	0.0699	100.0	Pass
30	0.0504	0.0504	100.0	Pass
31	0.0408	0.0408	100.0	Pass
Apr1	0.0451	0.0451	100.0	Pass
2	0.0518	0.0518	100.0	Pass
3	0.0743	0.0743	100.0	Pass
4	0.0646	0.0646	100.0	Pass
5	0.0681	0.0681	100.0	Pass
6	0.0342	0.0342	100.0	Pass
7	0.0635	0.0635	100.0	Pass
8	0.0620	0.0620	100.0	Pass
9	0.0558	0.0558	100.0	Pass
10	0.0536	0.0536	100.0	Pass
11	0.0784	0.0784	100.0	Pass
12	0.0641	0.0641	100.0	Pass
13	0.0681	0.0681	100.0	Pass
14	0.0564	0.0564	100.0	Pass
15	0.0604	0.0604	100.0	Pass
16	0.0313	0.0313	100.0	Pass
17	0.0475	0.0475	100.0	Pass
18	0.0553	0.0553	100.0	Pass
19	0.0267	0.0267	100.0	Pass
20	0.0279	0.0279	100.0	Pass
21	0.0502	0.0502	100.0	Pass
22	0.0411	0.0411	100.0	Pass
23	0.0348	0.0348	100.0	Pass
24	0.0276	0.0276	100.0	Pass
25	0.0351	0.0351	100.0	Pass
26	0.0586	0.0586	100.0	Pass
27	0.0440	0.0440	100.0	Pass
28	0.0456	0.0456	100.0	Pass
29	0.0200	0.0200	100.0	Pass
30	0.0307	0.0307	100.0	Pass
May1	0.0496	0.0496	100.0	Pass
2	0.0334	0.0334	100.0	Pass
3	0.0377	0.0377	100.0	Pass
4	0.0281	0.0281	100.0	Pass
5	0.0277	0.0277	100.0	Pass
6	0.0236	0.0236	100.0	Pass
7	0.0322	0.0322	100.0	Pass
8	0.0186	0.0186	100.0	Pass
9	0.0280	0.0280	100.0	Pass
10	0.0224	0.0224	100.0	Pass
11	0.0212	0.0212	100.0	Pass
12	0.0303	0.0303	100.0	Pass
13	0.0325	0.0325	100.0	Pass
14	0.0317	0.0317	100.0	Pass
15	0.0196	0.0196	100.0	Pass

16	0.0278	0.0278	100.0	Pass
17	0.0218	0.0218	100.0	Pass
18	0.0378	0.0378	100.0	Pass
19	0.0184	0.0184	100.0	Pass
20	0.0189	0.0189	100.0	Pass
21	0.0195	0.0195	100.0	Pass
22	0.0242	0.0242	100.0	Pass
23	0.0206	0.0206	100.0	Pass
24	0.0217	0.0217	100.0	Pass
25	0.0178	0.0178	100.0	Pass
26	0.0325	0.0325	100.0	Pass
27	0.0245	0.0245	100.0	Pass
28	0.0268	0.0268	100.0	Pass
29	0.0365	0.0365	100.0	Pass
30	0.0226	0.0226	100.0	Pass
31	0.0249	0.0249	100.0	Pass
Jun1	0.0181	0.0181	100.0	Pass
2	0.0330	0.0330	100.0	Pass
3	0.0306	0.0306	100.0	Pass
4	0.0218	0.0218	100.0	Pass
5	0.0373	0.0373	100.0	Pass
6	0.0121	0.0121	100.0	Pass
7	0.0205	0.0205	100.0	Pass
8	0.0303	0.0303	100.0	Pass
9	0.0223	0.0223	100.0	Pass
10	0.0218	0.0218	100.0	Pass
11	0.0153	0.0153	100.0	Pass
12	0.0197	0.0197	100.0	Pass
13	0.0313	0.0313	100.0	Pass
14	0.0115	0.0115	100.0	Pass
15	0.0253	0.0253	100.0	Pass
16	0.0098	0.0098	100.0	Pass
17	0.0151	0.0151	100.0	Pass
18	0.0096	0.0096	100.0	Pass
19	0.0128	0.0128	100.0	Pass
20	0.0145	0.0145	100.0	Pass
21	0.0134	0.0134	100.0	Pass
22	0.0072	0.0072	100.0	Pass
23	0.0409	0.0409	100.0	Pass
24	0.0086	0.0086	100.0	Pass
25	0.0174	0.0174	100.0	Pass
26	0.0104	0.0104	100.0	Pass
27	0.0098	0.0098	100.0	Pass
28	0.0102	0.0102	100.0	Pass
29	0.0134	0.0134	100.0	Pass
30	0.0281	0.0281	100.0	Pass
Jul1	0.0063	0.0063	100.0	Pass
2	0.0059	0.0059	100.0	Pass
3	0.0069	0.0069	100.0	Pass
4	0.0173	0.0173	100.0	Pass
5	0.0124	0.0124	100.0	Pass
6	0.0095	0.0095	100.0	Pass
7	0.0177	0.0177	100.0	Pass
8	0.0094	0.0094	100.0	Pass
9	0.0211	0.0211	100.0	Pass
10	0.0131	0.0131	100.0	Pass
11	0.0263	0.0263	100.0	Pass

12	0.0111	0.0111	100.0	Pass
13	0.0091	0.0091	100.0	Pass
14	0.0153	0.0153	100.0	Pass
15	0.0060	0.0060	100.0	Pass
16	0.0038	0.0038	100.0	Pass
17	0.0135	0.0135	100.0	Pass
18	0.0039	0.0039	100.0	Pass
19	0.0058	0.0058	100.0	Pass
20	0.0102	0.0102	100.0	Pass
21	0.0077	0.0077	100.0	Pass
22	0.0002	0.0002	100.0	Pass
23	0.0022	0.0022	100.0	Pass
24	0.0026	0.0026	100.0	Pass
25	0.0062	0.0062	100.0	Pass
26	0.0027	0.0027	100.0	Pass
27	0.0039	0.0039	100.0	Pass
28	0.0033	0.0033	100.0	Pass
29	0.0021	0.0021	100.0	Pass
30	0.0037	0.0037	100.0	Pass
31	0.0041	0.0041	100.0	Pass
Aug1	0.0166	0.0166	100.0	Pass
2	0.0054	0.0054	100.0	Pass
3	0.0021	0.0021	100.0	Pass
4	0.0021	0.0021	100.0	Pass
5	0.0187	0.0187	100.0	Pass
6	0.0124	0.0124	100.0	Pass
7	0.0042	0.0042	100.0	Pass
8	0.0045	0.0045	100.0	Pass
9	0.0003	0.0003	100.0	Pass
10	0.0025	0.0025	100.0	Pass
11	0.0121	0.0121	100.0	Pass
12	0.0105	0.0105	100.0	Pass
13	0.0129	0.0129	100.0	Pass
14	0.0074	0.0074	100.0	Pass
15	0.0066	0.0066	100.0	Pass
16	0.0061	0.0061	100.0	Pass
17	0.0123	0.0123	100.0	Pass
18	0.0231	0.0231	100.0	Pass
19	0.0058	0.0058	100.0	Pass
20	0.0180	0.0180	100.0	Pass
21	0.0158	0.0158	100.0	Pass
22	0.0313	0.0313	100.0	Pass
23	0.0282	0.0282	100.0	Pass
24	0.0227	0.0227	100.0	Pass
25	0.0086	0.0086	100.0	Pass
26	0.0298	0.0298	100.0	Pass
27	0.0297	0.0297	100.0	Pass
28	0.0289	0.0289	100.0	Pass
29	0.0184	0.0184	100.0	Pass
30	0.0308	0.0308	100.0	Pass
31	0.0480	0.0480	100.0	Pass
Sep1	0.0162	0.0162	100.0	Pass
2	0.0176	0.0176	100.0	Pass
3	0.0200	0.0200	100.0	Pass
4	0.0259	0.0259	100.0	Pass
5	0.0217	0.0217	100.0	Pass
6	0.0150	0.0150	100.0	Pass

7	0.0304	0.0304	100.0	Pass
8	0.0185	0.0185	100.0	Pass
9	0.0497	0.0497	100.0	Pass
10	0.0102	0.0102	100.0	Pass
11	0.0094	0.0094	100.0	Pass
12	0.0267	0.0267	100.0	Pass
13	0.0483	0.0483	100.0	Pass
14	0.0294	0.0294	100.0	Pass
15	0.0461	0.0461	100.0	Pass
16	0.0468	0.0468	100.0	Pass
17	0.0522	0.0522	100.0	Pass
18	0.0464	0.0464	100.0	Pass
19	0.0489	0.0489	100.0	Pass
20	0.0338	0.0338	100.0	Pass
21	0.0482	0.0482	100.0	Pass
22	0.0381	0.0381	100.0	Pass
23	0.0306	0.0306	100.0	Pass
24	0.0218	0.0218	100.0	Pass
25	0.0244	0.0244	100.0	Pass
26	0.0245	0.0245	100.0	Pass
27	0.0330	0.0330	100.0	Pass
28	0.0293	0.0293	100.0	Pass
29	0.0391	0.0391	100.0	Pass
30	0.0268	0.0268	100.0	Pass
Oct1	0.0188	0.0188	100.0	Pass
2	0.0513	0.0513	100.0	Pass
3	0.0447	0.0447	100.0	Pass
4	0.0542	0.0542	100.0	Pass
5	0.0574	0.0574	100.0	Pass
6	0.0633	0.0633	100.0	Pass
7	0.0806	0.0806	100.0	Pass
8	0.0635	0.0635	100.0	Pass
9	0.0484	0.0484	100.0	Pass
10	0.0395	0.0395	100.0	Pass
11	0.0800	0.0800	100.0	Pass
12	0.0511	0.0511	100.0	Pass
13	0.0741	0.0741	100.0	Pass
14	0.0387	0.0387	100.0	Pass
15	0.0484	0.0484	100.0	Pass
16	0.0652	0.0652	100.0	Pass
17	0.0592	0.0592	100.0	Pass
18	0.0964	0.0964	100.0	Pass
19	0.1173	0.1173	100.0	Pass
20	0.1001	0.1001	100.0	Pass
21	0.1213	0.1213	100.0	Pass
22	0.0658	0.0658	100.0	Pass
23	0.1178	0.1178	100.0	Pass
24	0.1014	0.1014	100.0	Pass
25	0.0895	0.0895	100.0	Pass
26	0.1111	0.1111	100.0	Pass
27	0.0914	0.0914	100.0	Pass
28	0.0855	0.0855	100.0	Pass
29	0.0711	0.0711	100.0	Pass
30	0.1114	0.1114	100.0	Pass
31	0.0900	0.0900	100.0	Pass
Nov1	0.1155	0.1155	100.0	Pass
2	0.1432	0.1432	100.0	Pass

3	0.1045	0.1045	100.0	Pass
4	0.1088	0.1088	100.0	Pass
5	0.1208	0.1208	100.0	Pass
6	0.0977	0.0977	100.0	Pass
7	0.0888	0.0888	100.0	Pass
8	0.1201	0.1201	100.0	Pass
9	0.1414	0.1414	100.0	Pass
10	0.1179	0.1179	100.0	Pass
11	0.1333	0.1333	100.0	Pass
12	0.1230	0.1230	100.0	Pass
13	0.0870	0.0870	100.0	Pass
14	0.1079	0.1079	100.0	Pass
15	0.1215	0.1215	100.0	Pass
16	0.1276	0.1276	100.0	Pass
17	0.1143	0.1143	100.0	Pass
18	0.1732	0.1732	100.0	Pass
19	0.1500	0.1500	100.0	Pass
20	0.0935	0.0935	100.0	Pass
21	0.1592	0.1592	100.0	Pass
22	0.1915	0.1915	100.0	Pass
23	0.1371	0.1371	100.0	Pass
24	0.1610	0.1610	100.0	Pass
25	0.0990	0.0990	100.0	Pass
26	0.0803	0.0803	100.0	Pass
27	0.1053	0.1053	100.0	Pass
28	0.1003	0.1003	100.0	Pass
29	0.1728	0.1728	100.0	Pass
30	0.1308	0.1308	100.0	Pass
Dec1	0.1473	0.1473	100.0	Pass
2	0.1398	0.1398	100.0	Pass
3	0.0848	0.0848	100.0	Pass
4	0.0995	0.0995	100.0	Pass
5	0.0831	0.0831	100.0	Pass
6	0.0735	0.0735	100.0	Pass
7	0.1116	0.1116	100.0	Pass
8	0.1406	0.1406	100.0	Pass
9	0.1357	0.1357	100.0	Pass
10	0.1456	0.1456	100.0	Pass
11	0.1027	0.1027	100.0	Pass
12	0.1144	0.1144	100.0	Pass
13	0.1774	0.1774	100.0	Pass
14	0.1133	0.1133	100.0	Pass
15	0.1578	0.1578	100.0	Pass
16	0.0983	0.0983	100.0	Pass
17	0.1245	0.1245	100.0	Pass
18	0.1000	0.1000	100.0	Pass
19	0.1225	0.1225	100.0	Pass
20	0.1170	0.1170	100.0	Pass
21	0.1288	0.1288	100.0	Pass
22	0.1275	0.1275	100.0	Pass
23	0.1398	0.1398	100.0	Pass
24	0.1567	0.1567	100.0	Pass
25	0.1300	0.1300	100.0	Pass
26	0.1179	0.1179	100.0	Pass
27	0.0762	0.0762	100.0	Pass
28	0.1319	0.1319	100.0	Pass
29	0.0802	0.0802	100.0	Pass

30	0.0877	0.0877	100.0	Pass
31	0.1554	0.1554	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #4
Total Pervious Area:0.071
Total Impervious Area:0.521

Mitigated Landuse Totals for POC #4
Total Pervious Area:0.071
Total Impervious Area:0.521

Flow Frequency Return Periods for Predeveloped. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.410714
5 year	0.486997
10 year	0.528214
25 year	0.572739
50 year	0.601639
100 year	0.627624

Flow Frequency Return Periods for Mitigated. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.410714
5 year	0.486997
10 year	0.528214
25 year	0.572739
50 year	0.601639
100 year	0.627624

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #4

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.430	0.430
1957	0.539	0.539
1958	0.417	0.417
1959	0.411	0.411
1960	0.427	0.427
1961	0.351	0.351
1962	0.563	0.563
1963	0.518	0.518
1964	0.451	0.451
1965	0.448	0.448
1966	0.437	0.437
1967	0.280	0.280
1968	0.423	0.423
1969	0.400	0.400
1970	0.382	0.382

1971	0.576	0.576
1972	0.486	0.486
1973	0.458	0.458
1974	0.435	0.435
1975	0.386	0.386
1976	0.472	0.472
1977	0.344	0.344
1978	0.600	0.600
1979	0.376	0.376
1980	0.347	0.347
1981	0.445	0.445
1982	0.513	0.513
1983	0.404	0.404
1984	0.372	0.372
1985	0.286	0.286
1986	0.452	0.452
1987	0.315	0.315
1988	0.477	0.477
1989	0.404	0.404
1990	0.520	0.520
1991	0.344	0.344
1992	0.271	0.271
1993	0.305	0.305
1994	0.381	0.381
1995	0.375	0.375
1996	0.456	0.456
1997	0.445	0.445
1998	0.278	0.278
1999	0.352	0.352
2000	0.323	0.323
2001	0.319	0.319
2002	0.491	0.491
2003	0.549	0.549
2004	0.512	0.512
2005	0.406	0.406
2006	0.413	0.413
2007	0.486	0.486
2008	0.257	0.257
2009	0.243	0.243

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	0.6003	0.6003
2	0.5761	0.5761
3	0.5635	0.5635
4	0.5491	0.5491
5	0.5388	0.5388
6	0.5204	0.5204
7	0.5183	0.5183
8	0.5126	0.5126
9	0.5115	0.5115
10	0.4908	0.4908
11	0.4864	0.4864
12	0.4858	0.4858
13	0.4773	0.4773

14	0.4723	0.4723
15	0.4577	0.4577
16	0.4563	0.4563
17	0.4516	0.4516
18	0.4509	0.4509
19	0.4480	0.4480
20	0.4447	0.4447
21	0.4446	0.4446
22	0.4368	0.4368
23	0.4347	0.4347
24	0.4305	0.4305
25	0.4267	0.4267
26	0.4227	0.4227
27	0.4169	0.4169
28	0.4130	0.4130
29	0.4109	0.4109
30	0.4055	0.4055
31	0.4043	0.4043
32	0.4037	0.4037
33	0.4002	0.4002
34	0.3864	0.3864
35	0.3823	0.3823
36	0.3812	0.3812
37	0.3762	0.3762
38	0.3754	0.3754
39	0.3720	0.3720
40	0.3515	0.3515
41	0.3512	0.3512
42	0.3473	0.3473
43	0.3444	0.3444
44	0.3436	0.3436
45	0.3231	0.3231
46	0.3193	0.3193
47	0.3152	0.3152
48	0.3045	0.3045
49	0.2864	0.2864
50	0.2799	0.2799
51	0.2777	0.2777
52	0.2707	0.2707
53	0.2572	0.2572
54	0.2435	0.2435

Stream Protection Duration

POC #4

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2054	1104	1104	100	Pass
0.2094	1033	1033	100	Pass
0.2134	960	960	100	Pass
0.2174	893	893	100	Pass
0.2214	832	832	100	Pass
0.2254	773	773	100	Pass
0.2294	721	721	100	Pass

0.2334	660	660	100	Pass
0.2374	611	611	100	Pass
0.2414	566	566	100	Pass
0.2454	531	531	100	Pass
0.2494	495	495	100	Pass
0.2534	469	469	100	Pass
0.2574	427	427	100	Pass
0.2614	396	396	100	Pass
0.2654	370	370	100	Pass
0.2694	346	346	100	Pass
0.2734	322	322	100	Pass
0.2774	300	300	100	Pass
0.2814	285	285	100	Pass
0.2854	269	269	100	Pass
0.2894	256	256	100	Pass
0.2934	239	239	100	Pass
0.2974	228	228	100	Pass
0.3014	217	217	100	Pass
0.3054	203	203	100	Pass
0.3094	197	197	100	Pass
0.3134	185	185	100	Pass
0.3174	174	174	100	Pass
0.3214	167	167	100	Pass
0.3254	159	159	100	Pass
0.3294	151	151	100	Pass
0.3334	143	143	100	Pass
0.3375	137	137	100	Pass
0.3415	128	128	100	Pass
0.3455	116	116	100	Pass
0.3495	109	109	100	Pass
0.3535	101	101	100	Pass
0.3575	98	98	100	Pass
0.3615	94	94	100	Pass
0.3655	91	91	100	Pass
0.3695	89	89	100	Pass
0.3735	81	81	100	Pass
0.3775	77	77	100	Pass
0.3815	74	74	100	Pass
0.3855	70	70	100	Pass
0.3895	65	65	100	Pass
0.3935	63	63	100	Pass
0.3975	62	62	100	Pass
0.4015	58	58	100	Pass
0.4055	53	53	100	Pass
0.4095	51	51	100	Pass
0.4135	46	46	100	Pass
0.4175	43	43	100	Pass
0.4215	43	43	100	Pass
0.4255	42	42	100	Pass
0.4295	40	40	100	Pass
0.4335	38	38	100	Pass
0.4375	34	34	100	Pass
0.4415	34	34	100	Pass
0.4455	32	32	100	Pass
0.4495	29	29	100	Pass
0.4535	26	26	100	Pass
0.4575	24	24	100	Pass

0.4615	23	23	100	Pass
0.4655	23	23	100	Pass
0.4695	23	23	100	Pass
0.4735	22	22	100	Pass
0.4776	20	20	100	Pass
0.4816	18	18	100	Pass
0.4856	17	17	100	Pass
0.4896	14	14	100	Pass
0.4936	13	13	100	Pass
0.4976	12	12	100	Pass
0.5016	11	11	100	Pass
0.5056	11	11	100	Pass
0.5096	11	11	100	Pass
0.5136	9	9	100	Pass
0.5176	9	9	100	Pass
0.5216	7	7	100	Pass
0.5256	6	6	100	Pass
0.5296	6	6	100	Pass
0.5336	6	6	100	Pass
0.5376	6	6	100	Pass
0.5416	5	5	100	Pass
0.5456	4	4	100	Pass
0.5496	4	4	100	Pass
0.5536	3	3	100	Pass
0.5576	3	3	100	Pass
0.5616	3	3	100	Pass
0.5656	2	2	100	Pass
0.5696	2	2	100	Pass
0.5736	2	2	100	Pass
0.5776	1	1	100	Pass
0.5816	1	1	100	Pass
0.5856	1	1	100	Pass
0.5896	1	1	100	Pass
0.5936	1	1	100	Pass
0.5976	1	1	100	Pass
0.6016	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 4

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	25.4654	25.4654	100.0	Pass
Feb	19.4885	19.4885	100.0	Pass
Mar	17.3675	17.3675	100.0	Pass
Apr	9.8001	9.8001	100.0	Pass
May	5.3930	5.3930	100.0	Pass
Jun	3.6167	3.6167	100.0	Pass

Jul	1.8033	1.8033	100.0	Pass
Aug	2.6913	2.6913	100.0	Pass
Sep	6.0266	6.0266	100.0	Pass
Oct	14.5023	14.5023	100.0	Pass
Nov	24.2872	24.2872	100.0	Pass
Dec	24.5527	24.5527	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.8178	0.8178	100.0	Pass
2	0.6378	0.6378	100.0	Pass
3	0.8226	0.8226	100.0	Pass
4	0.9727	0.9727	100.0	Pass
5	0.6927	0.6927	100.0	Pass
6	1.0649	1.0649	100.0	Pass
7	0.8082	0.8082	100.0	Pass
8	0.8162	0.8162	100.0	Pass
9	0.8773	0.8773	100.0	Pass
10	0.8462	0.8462	100.0	Pass
11	1.0426	1.0426	100.0	Pass
12	0.8056	0.8056	100.0	Pass
13	1.0310	1.0310	100.0	Pass
14	1.0222	1.0222	100.0	Pass
15	0.9280	0.9280	100.0	Pass
16	0.7517	0.7517	100.0	Pass
17	0.7238	0.7238	100.0	Pass
18	0.6395	0.6395	100.0	Pass
19	0.6441	0.6441	100.0	Pass
20	0.4149	0.4149	100.0	Pass
21	0.8367	0.8367	100.0	Pass
22	0.9981	0.9981	100.0	Pass
23	1.1102	1.1102	100.0	Pass
24	0.7399	0.7399	100.0	Pass
25	0.6285	0.6285	100.0	Pass
26	0.5679	0.5679	100.0	Pass
27	0.7344	0.7344	100.0	Pass
28	0.9360	0.9360	100.0	Pass
29	0.7029	0.7029	100.0	Pass
30	0.8437	0.8437	100.0	Pass
31	0.4916	0.4916	100.0	Pass
Feb1	0.5717	0.5717	100.0	Pass
2	0.5255	0.5255	100.0	Pass
3	0.4722	0.4722	100.0	Pass
4	0.4372	0.4372	100.0	Pass
5	0.8257	0.8257	100.0	Pass
6	0.3978	0.3978	100.0	Pass
7	0.6012	0.6012	100.0	Pass
8	0.4505	0.4505	100.0	Pass
9	0.5524	0.5524	100.0	Pass
10	0.7384	0.7384	100.0	Pass
11	0.9666	0.9666	100.0	Pass
12	0.7441	0.7441	100.0	Pass
13	0.8059	0.8059	100.0	Pass
14	1.1422	1.1422	100.0	Pass
15	0.8088	0.8088	100.0	Pass
16	1.0796	1.0796	100.0	Pass
17	0.9398	0.9398	100.0	Pass
18	0.7286	0.7286	100.0	Pass

19	0.6367	0.6367	100.0	Pass
20	0.6177	0.6177	100.0	Pass
21	0.5068	0.5068	100.0	Pass
22	0.7552	0.7552	100.0	Pass
23	0.7139	0.7139	100.0	Pass
24	0.7866	0.7866	100.0	Pass
25	0.6988	0.6988	100.0	Pass
26	0.6836	0.6836	100.0	Pass
27	0.6000	0.6000	100.0	Pass
28	0.7618	0.7618	100.0	Pass
29	0.5809	0.5809	100.0	Pass
Mar1	0.5756	0.5756	100.0	Pass
2	0.4676	0.4676	100.0	Pass
3	0.6721	0.6721	100.0	Pass
4	0.7012	0.7012	100.0	Pass
5	0.5450	0.5450	100.0	Pass
6	0.6937	0.6937	100.0	Pass
7	0.6872	0.6872	100.0	Pass
8	0.6591	0.6591	100.0	Pass
9	0.6616	0.6616	100.0	Pass
10	0.5707	0.5707	100.0	Pass
11	0.6240	0.6240	100.0	Pass
12	0.5528	0.5528	100.0	Pass
13	0.6745	0.6745	100.0	Pass
14	0.5282	0.5282	100.0	Pass
15	0.4296	0.4296	100.0	Pass
16	0.4180	0.4180	100.0	Pass
17	0.5708	0.5708	100.0	Pass
18	0.3423	0.3423	100.0	Pass
19	0.5283	0.5283	100.0	Pass
20	0.4202	0.4202	100.0	Pass
21	0.7217	0.7217	100.0	Pass
22	0.8061	0.8061	100.0	Pass
23	0.6507	0.6507	100.0	Pass
24	0.4071	0.4071	100.0	Pass
25	0.6542	0.6542	100.0	Pass
26	0.4632	0.4632	100.0	Pass
27	0.4523	0.4523	100.0	Pass
28	0.5040	0.5040	100.0	Pass
29	0.4643	0.4643	100.0	Pass
30	0.3424	0.3424	100.0	Pass
31	0.2774	0.2774	100.0	Pass
Apr1	0.3003	0.3003	100.0	Pass
2	0.3407	0.3407	100.0	Pass
3	0.4782	0.4782	100.0	Pass
4	0.4242	0.4242	100.0	Pass
5	0.4521	0.4521	100.0	Pass
6	0.2370	0.2370	100.0	Pass
7	0.4123	0.4123	100.0	Pass
8	0.4087	0.4087	100.0	Pass
9	0.3664	0.3664	100.0	Pass
10	0.3563	0.3563	100.0	Pass
11	0.5044	0.5044	100.0	Pass
12	0.4228	0.4228	100.0	Pass
13	0.4455	0.4455	100.0	Pass
14	0.3751	0.3751	100.0	Pass
15	0.4006	0.4006	100.0	Pass

16	0.2177	0.2177	100.0	Pass
17	0.3117	0.3117	100.0	Pass
18	0.3599	0.3599	100.0	Pass
19	0.1849	0.1849	100.0	Pass
20	0.1858	0.1858	100.0	Pass
21	0.3221	0.3221	100.0	Pass
22	0.2676	0.2676	100.0	Pass
23	0.2301	0.2301	100.0	Pass
24	0.1841	0.1841	100.0	Pass
25	0.2272	0.2272	100.0	Pass
26	0.3787	0.3787	100.0	Pass
27	0.2894	0.2894	100.0	Pass
28	0.3002	0.3002	100.0	Pass
29	0.1400	0.1400	100.0	Pass
30	0.1993	0.1993	100.0	Pass
May1	0.3150	0.3150	100.0	Pass
2	0.2200	0.2200	100.0	Pass
3	0.2434	0.2434	100.0	Pass
4	0.1856	0.1856	100.0	Pass
5	0.1810	0.1810	100.0	Pass
6	0.1540	0.1540	100.0	Pass
7	0.2064	0.2064	100.0	Pass
8	0.1232	0.1232	100.0	Pass
9	0.1788	0.1788	100.0	Pass
10	0.1441	0.1441	100.0	Pass
11	0.1363	0.1363	100.0	Pass
12	0.1931	0.1931	100.0	Pass
13	0.2071	0.2071	100.0	Pass
14	0.2018	0.2018	100.0	Pass
15	0.1306	0.1306	100.0	Pass
16	0.1771	0.1771	100.0	Pass
17	0.1414	0.1414	100.0	Pass
18	0.2372	0.2372	100.0	Pass
19	0.1206	0.1206	100.0	Pass
20	0.1209	0.1209	100.0	Pass
21	0.1249	0.1249	100.0	Pass
22	0.1524	0.1524	100.0	Pass
23	0.1319	0.1319	100.0	Pass
24	0.1391	0.1391	100.0	Pass
25	0.1153	0.1153	100.0	Pass
26	0.2051	0.2051	100.0	Pass
27	0.1574	0.1574	100.0	Pass
28	0.1710	0.1710	100.0	Pass
29	0.2323	0.2323	100.0	Pass
30	0.1473	0.1473	100.0	Pass
31	0.1614	0.1614	100.0	Pass
Jun1	0.1197	0.1197	100.0	Pass
2	0.2067	0.2067	100.0	Pass
3	0.1929	0.1929	100.0	Pass
4	0.1403	0.1403	100.0	Pass
5	0.2344	0.2344	100.0	Pass
6	0.0825	0.0825	100.0	Pass
7	0.1321	0.1321	100.0	Pass
8	0.1919	0.1919	100.0	Pass
9	0.1430	0.1430	100.0	Pass
10	0.1380	0.1380	100.0	Pass
11	0.0983	0.0983	100.0	Pass

12	0.1239	0.1239	100.0	Pass
13	0.1959	0.1959	100.0	Pass
14	0.0764	0.0764	100.0	Pass
15	0.1596	0.1596	100.0	Pass
16	0.0659	0.0659	100.0	Pass
17	0.0966	0.0966	100.0	Pass
18	0.0637	0.0637	100.0	Pass
19	0.0806	0.0806	100.0	Pass
20	0.0904	0.0904	100.0	Pass
21	0.0848	0.0848	100.0	Pass
22	0.0471	0.0471	100.0	Pass
23	0.2504	0.2504	100.0	Pass
24	0.0592	0.0592	100.0	Pass
25	0.1095	0.1095	100.0	Pass
26	0.0658	0.0658	100.0	Pass
27	0.0611	0.0611	100.0	Pass
28	0.0631	0.0631	100.0	Pass
29	0.0823	0.0823	100.0	Pass
30	0.1737	0.1737	100.0	Pass
Jul1	0.0419	0.0419	100.0	Pass
2	0.0377	0.0377	100.0	Pass
3	0.0427	0.0427	100.0	Pass
4	0.1046	0.1046	100.0	Pass
5	0.0761	0.0761	100.0	Pass
6	0.0581	0.0581	100.0	Pass
7	0.1096	0.1096	100.0	Pass
8	0.0604	0.0604	100.0	Pass
9	0.1299	0.1299	100.0	Pass
10	0.0828	0.0828	100.0	Pass
11	0.1659	0.1659	100.0	Pass
12	0.0765	0.0765	100.0	Pass
13	0.0605	0.0605	100.0	Pass
14	0.0964	0.0964	100.0	Pass
15	0.0392	0.0392	100.0	Pass
16	0.0246	0.0246	100.0	Pass
17	0.0837	0.0837	100.0	Pass
18	0.0265	0.0265	100.0	Pass
19	0.0364	0.0364	100.0	Pass
20	0.0625	0.0625	100.0	Pass
21	0.0483	0.0483	100.0	Pass
22	0.0030	0.0030	100.0	Pass
23	0.0141	0.0141	100.0	Pass
24	0.0162	0.0162	100.0	Pass
25	0.0375	0.0375	100.0	Pass
26	0.0166	0.0166	100.0	Pass
27	0.0234	0.0234	100.0	Pass
28	0.0199	0.0199	100.0	Pass
29	0.0127	0.0127	100.0	Pass
30	0.0222	0.0222	100.0	Pass
31	0.0247	0.0247	100.0	Pass
Aug1	0.1006	0.1006	100.0	Pass
2	0.0344	0.0344	100.0	Pass
3	0.0138	0.0138	100.0	Pass
4	0.0134	0.0134	100.0	Pass
5	0.1137	0.1137	100.0	Pass
6	0.0769	0.0769	100.0	Pass
7	0.0271	0.0271	100.0	Pass

8	0.0282	0.0282	100.0	Pass
9	0.0025	0.0025	100.0	Pass
10	0.0156	0.0156	100.0	Pass
11	0.0733	0.0733	100.0	Pass
12	0.0640	0.0640	100.0	Pass
13	0.0789	0.0789	100.0	Pass
14	0.0468	0.0468	100.0	Pass
15	0.0420	0.0420	100.0	Pass
16	0.0383	0.0383	100.0	Pass
17	0.0746	0.0746	100.0	Pass
18	0.1399	0.1399	100.0	Pass
19	0.0377	0.0377	100.0	Pass
20	0.1094	0.1094	100.0	Pass
21	0.0982	0.0982	100.0	Pass
22	0.1929	0.1929	100.0	Pass
23	0.1769	0.1769	100.0	Pass
24	0.1473	0.1473	100.0	Pass
25	0.0589	0.0589	100.0	Pass
26	0.1842	0.1842	100.0	Pass
27	0.1858	0.1858	100.0	Pass
28	0.1831	0.1831	100.0	Pass
29	0.1174	0.1174	100.0	Pass
30	0.1908	0.1908	100.0	Pass
31	0.2992	0.2992	100.0	Pass
Sep1	0.1096	0.1096	100.0	Pass
2	0.1146	0.1146	100.0	Pass
3	0.1276	0.1276	100.0	Pass
4	0.1623	0.1623	100.0	Pass
5	0.1372	0.1372	100.0	Pass
6	0.0954	0.0954	100.0	Pass
7	0.1871	0.1871	100.0	Pass
8	0.1169	0.1169	100.0	Pass
9	0.3054	0.3054	100.0	Pass
10	0.0676	0.0676	100.0	Pass
11	0.0603	0.0603	100.0	Pass
12	0.1642	0.1642	100.0	Pass
13	0.2988	0.2988	100.0	Pass
14	0.1872	0.1872	100.0	Pass
15	0.2885	0.2885	100.0	Pass
16	0.2986	0.2986	100.0	Pass
17	0.3287	0.3287	100.0	Pass
18	0.2938	0.2938	100.0	Pass
19	0.3124	0.3124	100.0	Pass
20	0.2223	0.2223	100.0	Pass
21	0.3114	0.3114	100.0	Pass
22	0.2478	0.2478	100.0	Pass
23	0.1987	0.1987	100.0	Pass
24	0.1418	0.1418	100.0	Pass
25	0.1547	0.1547	100.0	Pass
26	0.1551	0.1551	100.0	Pass
27	0.2101	0.2101	100.0	Pass
28	0.1850	0.1850	100.0	Pass
29	0.2454	0.2454	100.0	Pass
30	0.1729	0.1729	100.0	Pass
Oct1	0.1228	0.1228	100.0	Pass
2	0.3176	0.3176	100.0	Pass
3	0.2804	0.2804	100.0	Pass

4	0.3422	0.3422	100.0	Pass
5	0.3627	0.3627	100.0	Pass
6	0.3993	0.3993	100.0	Pass
7	0.5105	0.5105	100.0	Pass
8	0.4093	0.4093	100.0	Pass
9	0.3156	0.3156	100.0	Pass
10	0.2582	0.2582	100.0	Pass
11	0.5027	0.5027	100.0	Pass
12	0.3307	0.3307	100.0	Pass
13	0.4690	0.4690	100.0	Pass
14	0.2574	0.2574	100.0	Pass
15	0.3129	0.3129	100.0	Pass
16	0.4185	0.4185	100.0	Pass
17	0.3824	0.3824	100.0	Pass
18	0.6165	0.6165	100.0	Pass
19	0.7547	0.7547	100.0	Pass
20	0.6474	0.6474	100.0	Pass
21	0.7830	0.7830	100.0	Pass
22	0.4451	0.4451	100.0	Pass
23	0.7613	0.7613	100.0	Pass
24	0.6623	0.6623	100.0	Pass
25	0.5886	0.5886	100.0	Pass
26	0.7211	0.7211	100.0	Pass
27	0.6040	0.6040	100.0	Pass
28	0.5635	0.5635	100.0	Pass
29	0.4733	0.4733	100.0	Pass
30	0.7183	0.7183	100.0	Pass
31	0.5934	0.5934	100.0	Pass
Nov1	0.7541	0.7541	100.0	Pass
2	0.9212	0.9212	100.0	Pass
3	0.6967	0.6967	100.0	Pass
4	0.7146	0.7146	100.0	Pass
5	0.7919	0.7919	100.0	Pass
6	0.6514	0.6514	100.0	Pass
7	0.5915	0.5915	100.0	Pass
8	0.7798	0.7798	100.0	Pass
9	0.9193	0.9193	100.0	Pass
10	0.7778	0.7778	100.0	Pass
11	0.8740	0.8740	100.0	Pass
12	0.8076	0.8076	100.0	Pass
13	0.5899	0.5899	100.0	Pass
14	0.7097	0.7097	100.0	Pass
15	0.7964	0.7964	100.0	Pass
16	0.8350	0.8350	100.0	Pass
17	0.7554	0.7554	100.0	Pass
18	1.1262	1.1262	100.0	Pass
19	0.9909	0.9909	100.0	Pass
20	0.6382	0.6382	100.0	Pass
21	1.0421	1.0421	100.0	Pass
22	1.2418	1.2418	100.0	Pass
23	0.9183	0.9183	100.0	Pass
24	1.0643	1.0643	100.0	Pass
25	0.6798	0.6798	100.0	Pass
26	0.5514	0.5514	100.0	Pass
27	0.6949	0.6949	100.0	Pass
28	0.6631	0.6631	100.0	Pass
29	1.1184	1.1184	100.0	Pass

30	0.8707	0.8707	100.0	Pass
Dec1	0.9704	0.9704	100.0	Pass
2	0.9303	0.9303	100.0	Pass
3	0.5823	0.5823	100.0	Pass
4	0.6629	0.6629	100.0	Pass
5	0.5616	0.5616	100.0	Pass
6	0.4923	0.4923	100.0	Pass
7	0.7267	0.7267	100.0	Pass
8	0.9139	0.9139	100.0	Pass
9	0.8937	0.8937	100.0	Pass
10	0.9629	0.9629	100.0	Pass
11	0.6912	0.6912	100.0	Pass
12	0.7594	0.7594	100.0	Pass
13	1.1506	1.1506	100.0	Pass
14	0.7676	0.7676	100.0	Pass
15	1.0346	1.0346	100.0	Pass
16	0.6716	0.6716	100.0	Pass
17	0.8249	0.8249	100.0	Pass
18	0.6713	0.6713	100.0	Pass
19	0.8037	0.8037	100.0	Pass
20	0.7770	0.7770	100.0	Pass
21	0.8558	0.8558	100.0	Pass
22	0.8439	0.8439	100.0	Pass
23	0.9217	0.9217	100.0	Pass
24	1.0271	1.0271	100.0	Pass
25	0.8715	0.8715	100.0	Pass
26	0.7935	0.7935	100.0	Pass
27	0.5235	0.5235	100.0	Pass
28	0.8635	0.8635	100.0	Pass
29	0.5486	0.5486	100.0	Pass
30	0.5858	0.5858	100.0	Pass
31	1.0097	1.0097	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #5

Total Pervious Area:0.033
Total Impervious Area:0.24

Mitigated Landuse Totals for POC #5

Total Pervious Area:0.033
Total Impervious Area:0.24

Flow Frequency Return Periods for Predeveloped. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.189315
5 year	0.224493
10 year	0.243501
25 year	0.264035
50 year	0.277364

100 year 0.289348

Flow Frequency Return Periods for Mitigated. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.189315
5 year	0.224493
10 year	0.243501
25 year	0.264035
50 year	0.277364
100 year	0.289348

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #5

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.198	0.198
1957	0.248	0.248
1958	0.192	0.192
1959	0.189	0.189
1960	0.197	0.197
1961	0.162	0.162
1962	0.260	0.260
1963	0.239	0.239
1964	0.208	0.208
1965	0.207	0.207
1966	0.201	0.201
1967	0.129	0.129
1968	0.195	0.195
1969	0.185	0.185
1970	0.176	0.176
1971	0.266	0.266
1972	0.224	0.224
1973	0.211	0.211
1974	0.200	0.200
1975	0.178	0.178
1976	0.218	0.218
1977	0.158	0.158
1978	0.277	0.277
1979	0.173	0.173
1980	0.160	0.160
1981	0.205	0.205
1982	0.236	0.236
1983	0.186	0.186
1984	0.171	0.171
1985	0.132	0.132
1986	0.208	0.208
1987	0.145	0.145
1988	0.220	0.220
1989	0.186	0.186
1990	0.240	0.240
1991	0.159	0.159
1992	0.125	0.125
1993	0.140	0.140
1994	0.176	0.176
1995	0.173	0.173
1996	0.210	0.210
1997	0.205	0.205

1998	0.128	0.128
1999	0.162	0.162
2000	0.149	0.149
2001	0.147	0.147
2002	0.226	0.226
2003	0.253	0.253
2004	0.236	0.236
2005	0.187	0.187
2006	0.190	0.190
2007	0.224	0.224
2008	0.119	0.119
2009	0.112	0.112

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	0.2767	0.2767
2	0.2656	0.2656
3	0.2598	0.2598
4	0.2531	0.2531
5	0.2484	0.2484
6	0.2399	0.2399
7	0.2390	0.2390
8	0.2363	0.2363
9	0.2358	0.2358
10	0.2261	0.2261
11	0.2242	0.2242
12	0.2240	0.2240
13	0.2200	0.2200
14	0.2177	0.2177
15	0.2110	0.2110
16	0.2103	0.2103
17	0.2082	0.2082
18	0.2079	0.2079
19	0.2065	0.2065
20	0.2050	0.2050
21	0.2049	0.2049
22	0.2014	0.2014
23	0.2004	0.2004
24	0.1985	0.1985
25	0.1967	0.1967
26	0.1949	0.1949
27	0.1921	0.1921
28	0.1904	0.1904
29	0.1894	0.1894
30	0.1869	0.1869
31	0.1864	0.1864
32	0.1861	0.1861
33	0.1845	0.1845
34	0.1781	0.1781
35	0.1762	0.1762
36	0.1757	0.1757
37	0.1734	0.1734
38	0.1730	0.1730
39	0.1715	0.1715
40	0.1620	0.1620

41	0.1618	0.1618
42	0.1601	0.1601
43	0.1587	0.1587
44	0.1584	0.1584
45	0.1489	0.1489
46	0.1472	0.1472
47	0.1453	0.1453
48	0.1403	0.1403
49	0.1320	0.1320
50	0.1290	0.1290
51	0.1280	0.1280
52	0.1248	0.1248
53	0.1186	0.1186
54	0.1122	0.1122

Stream Protection Duration

POC #5

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.0947	1097	1097	100	Pass
0.0965	1025	1025	100	Pass
0.0983	953	953	100	Pass
0.1002	888	888	100	Pass
0.1020	830	830	100	Pass
0.1039	768	768	100	Pass
0.1057	711	711	100	Pass
0.1076	658	658	100	Pass
0.1094	606	606	100	Pass
0.1113	563	563	100	Pass
0.1131	526	526	100	Pass
0.1150	493	493	100	Pass
0.1168	461	461	100	Pass
0.1186	423	423	100	Pass
0.1205	395	395	100	Pass
0.1223	368	368	100	Pass
0.1242	344	344	100	Pass
0.1260	318	318	100	Pass
0.1279	299	299	100	Pass
0.1297	284	284	100	Pass
0.1316	267	267	100	Pass
0.1334	255	255	100	Pass
0.1353	238	238	100	Pass
0.1371	227	227	100	Pass
0.1389	216	216	100	Pass
0.1408	202	202	100	Pass
0.1426	194	194	100	Pass
0.1445	185	185	100	Pass
0.1463	174	174	100	Pass
0.1482	166	166	100	Pass
0.1500	159	159	100	Pass
0.1519	151	151	100	Pass
0.1537	142	142	100	Pass
0.1556	136	136	100	Pass

0.1574	126	126	100	Pass
0.1593	115	115	100	Pass
0.1611	109	109	100	Pass
0.1629	100	100	100	Pass
0.1648	98	98	100	Pass
0.1666	92	92	100	Pass
0.1685	91	91	100	Pass
0.1703	89	89	100	Pass
0.1722	81	81	100	Pass
0.1740	77	77	100	Pass
0.1759	73	73	100	Pass
0.1777	70	70	100	Pass
0.1796	64	64	100	Pass
0.1814	63	63	100	Pass
0.1832	61	61	100	Pass
0.1851	57	57	100	Pass
0.1869	53	53	100	Pass
0.1888	51	51	100	Pass
0.1906	46	46	100	Pass
0.1925	43	43	100	Pass
0.1943	43	43	100	Pass
0.1962	42	42	100	Pass
0.1980	40	40	100	Pass
0.1999	38	38	100	Pass
0.2017	34	34	100	Pass
0.2035	34	34	100	Pass
0.2054	32	32	100	Pass
0.2072	28	28	100	Pass
0.2091	26	26	100	Pass
0.2109	24	24	100	Pass
0.2128	23	23	100	Pass
0.2146	23	23	100	Pass
0.2165	23	23	100	Pass
0.2183	21	21	100	Pass
0.2202	18	18	100	Pass
0.2220	18	18	100	Pass
0.2238	17	17	100	Pass
0.2257	14	14	100	Pass
0.2275	13	13	100	Pass
0.2294	12	12	100	Pass
0.2312	11	11	100	Pass
0.2331	11	11	100	Pass
0.2349	11	11	100	Pass
0.2368	9	9	100	Pass
0.2386	9	9	100	Pass
0.2405	6	6	100	Pass
0.2423	6	6	100	Pass
0.2441	6	6	100	Pass
0.2460	6	6	100	Pass
0.2478	6	6	100	Pass
0.2497	5	5	100	Pass
0.2515	4	4	100	Pass
0.2534	3	3	100	Pass
0.2552	3	3	100	Pass
0.2571	3	3	100	Pass
0.2589	3	3	100	Pass
0.2608	2	2	100	Pass

0.2626	2	2	100	Pass
0.2644	2	2	100	Pass
0.2663	1	1	100	Pass
0.2681	1	1	100	Pass
0.2700	1	1	100	Pass
0.2718	1	1	100	Pass
0.2737	1	1	100	Pass
0.2755	1	1	100	Pass
0.2774	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #5

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 5

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	11.7410	11.7410	100.0	Pass
Feb	8.9856	8.9856	100.0	Pass
Mar	8.0075	8.0075	100.0	Pass
Apr	4.5182	4.5182	100.0	Pass
May	2.4859	2.4859	100.0	Pass
Jun	1.6669	1.6669	100.0	Pass
Jul	0.8311	0.8311	100.0	Pass
Aug	1.2402	1.2402	100.0	Pass
Sep	2.7776	2.7776	100.0	Pass
Oct	6.6848	6.6848	100.0	Pass
Nov	11.1971	11.1971	100.0	Pass
Dec	11.3201	11.3201	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3771	0.3771	100.0	Pass
2	0.2941	0.2941	100.0	Pass
3	0.3793	0.3793	100.0	Pass
4	0.4484	0.4484	100.0	Pass
5	0.3194	0.3194	100.0	Pass
6	0.4909	0.4909	100.0	Pass
7	0.3727	0.3727	100.0	Pass
8	0.3763	0.3763	100.0	Pass
9	0.4044	0.4044	100.0	Pass
10	0.3902	0.3902	100.0	Pass
11	0.4807	0.4807	100.0	Pass
12	0.3715	0.3715	100.0	Pass
13	0.4753	0.4753	100.0	Pass
14	0.4713	0.4713	100.0	Pass
15	0.4279	0.4279	100.0	Pass
16	0.3467	0.3467	100.0	Pass
17	0.3338	0.3338	100.0	Pass
18	0.2949	0.2949	100.0	Pass
19	0.2970	0.2970	100.0	Pass

20	0.1914	0.1914	100.0	Pass
21	0.3856	0.3856	100.0	Pass
22	0.4601	0.4601	100.0	Pass
23	0.5118	0.5118	100.0	Pass
24	0.3412	0.3412	100.0	Pass
25	0.2899	0.2899	100.0	Pass
26	0.2619	0.2619	100.0	Pass
27	0.3386	0.3386	100.0	Pass
28	0.4315	0.4315	100.0	Pass
29	0.3241	0.3241	100.0	Pass
30	0.3890	0.3890	100.0	Pass
31	0.2267	0.2267	100.0	Pass
Feb1	0.2636	0.2636	100.0	Pass
2	0.2423	0.2423	100.0	Pass
3	0.2177	0.2177	100.0	Pass
4	0.2016	0.2016	100.0	Pass
5	0.3806	0.3806	100.0	Pass
6	0.1835	0.1835	100.0	Pass
7	0.2772	0.2772	100.0	Pass
8	0.2077	0.2077	100.0	Pass
9	0.2547	0.2547	100.0	Pass
10	0.3404	0.3404	100.0	Pass
11	0.4456	0.4456	100.0	Pass
12	0.3431	0.3431	100.0	Pass
13	0.3716	0.3716	100.0	Pass
14	0.5265	0.5265	100.0	Pass
15	0.3729	0.3729	100.0	Pass
16	0.4977	0.4977	100.0	Pass
17	0.4333	0.4333	100.0	Pass
18	0.3360	0.3360	100.0	Pass
19	0.2936	0.2936	100.0	Pass
20	0.2848	0.2848	100.0	Pass
21	0.2337	0.2337	100.0	Pass
22	0.3482	0.3482	100.0	Pass
23	0.3291	0.3291	100.0	Pass
24	0.3626	0.3626	100.0	Pass
25	0.3222	0.3222	100.0	Pass
26	0.3152	0.3152	100.0	Pass
27	0.2767	0.2767	100.0	Pass
28	0.3513	0.3513	100.0	Pass
29	0.2678	0.2678	100.0	Pass
Mar1	0.2654	0.2654	100.0	Pass
2	0.2156	0.2156	100.0	Pass
3	0.3098	0.3098	100.0	Pass
4	0.3233	0.3233	100.0	Pass
5	0.2513	0.2513	100.0	Pass
6	0.3198	0.3198	100.0	Pass
7	0.3168	0.3168	100.0	Pass
8	0.3039	0.3039	100.0	Pass
9	0.3050	0.3050	100.0	Pass
10	0.2632	0.2632	100.0	Pass
11	0.2877	0.2877	100.0	Pass
12	0.2549	0.2549	100.0	Pass
13	0.3110	0.3110	100.0	Pass
14	0.2436	0.2436	100.0	Pass
15	0.1981	0.1981	100.0	Pass
16	0.1927	0.1927	100.0	Pass

17	0.2632	0.2632	100.0	Pass
18	0.1578	0.1578	100.0	Pass
19	0.2435	0.2435	100.0	Pass
20	0.1937	0.1937	100.0	Pass
21	0.3327	0.3327	100.0	Pass
22	0.3716	0.3716	100.0	Pass
23	0.3000	0.3000	100.0	Pass
24	0.1878	0.1878	100.0	Pass
25	0.3016	0.3016	100.0	Pass
26	0.2136	0.2136	100.0	Pass
27	0.2085	0.2085	100.0	Pass
28	0.2324	0.2324	100.0	Pass
29	0.2141	0.2141	100.0	Pass
30	0.1579	0.1579	100.0	Pass
31	0.1279	0.1279	100.0	Pass
Apr1	0.1384	0.1384	100.0	Pass
2	0.1571	0.1571	100.0	Pass
3	0.2204	0.2204	100.0	Pass
4	0.1956	0.1956	100.0	Pass
5	0.2084	0.2084	100.0	Pass
6	0.1093	0.1093	100.0	Pass
7	0.1901	0.1901	100.0	Pass
8	0.1884	0.1884	100.0	Pass
9	0.1689	0.1689	100.0	Pass
10	0.1643	0.1643	100.0	Pass
11	0.2325	0.2325	100.0	Pass
12	0.1949	0.1949	100.0	Pass
13	0.2054	0.2054	100.0	Pass
14	0.1729	0.1729	100.0	Pass
15	0.1847	0.1847	100.0	Pass
16	0.1004	0.1004	100.0	Pass
17	0.1437	0.1437	100.0	Pass
18	0.1659	0.1659	100.0	Pass
19	0.0853	0.0853	100.0	Pass
20	0.0857	0.0857	100.0	Pass
21	0.1485	0.1485	100.0	Pass
22	0.1233	0.1233	100.0	Pass
23	0.1061	0.1061	100.0	Pass
24	0.0849	0.0849	100.0	Pass
25	0.1047	0.1047	100.0	Pass
26	0.1746	0.1746	100.0	Pass
27	0.1334	0.1334	100.0	Pass
28	0.1384	0.1384	100.0	Pass
29	0.0646	0.0646	100.0	Pass
30	0.0919	0.0919	100.0	Pass
May1	0.1452	0.1452	100.0	Pass
2	0.1014	0.1014	100.0	Pass
3	0.1122	0.1122	100.0	Pass
4	0.0856	0.0856	100.0	Pass
5	0.0834	0.0834	100.0	Pass
6	0.0710	0.0710	100.0	Pass
7	0.0951	0.0951	100.0	Pass
8	0.0568	0.0568	100.0	Pass
9	0.0824	0.0824	100.0	Pass
10	0.0664	0.0664	100.0	Pass
11	0.0628	0.0628	100.0	Pass
12	0.0890	0.0890	100.0	Pass

13	0.0955	0.0955	100.0	Pass
14	0.0930	0.0930	100.0	Pass
15	0.0602	0.0602	100.0	Pass
16	0.0816	0.0816	100.0	Pass
17	0.0652	0.0652	100.0	Pass
18	0.1093	0.1093	100.0	Pass
19	0.0556	0.0556	100.0	Pass
20	0.0557	0.0557	100.0	Pass
21	0.0576	0.0576	100.0	Pass
22	0.0702	0.0702	100.0	Pass
23	0.0608	0.0608	100.0	Pass
24	0.0641	0.0641	100.0	Pass
25	0.0531	0.0531	100.0	Pass
26	0.0945	0.0945	100.0	Pass
27	0.0725	0.0725	100.0	Pass
28	0.0788	0.0788	100.0	Pass
29	0.1071	0.1071	100.0	Pass
30	0.0679	0.0679	100.0	Pass
31	0.0744	0.0744	100.0	Pass
Jun1	0.0552	0.0552	100.0	Pass
2	0.0953	0.0953	100.0	Pass
3	0.0889	0.0889	100.0	Pass
4	0.0647	0.0647	100.0	Pass
5	0.1080	0.1080	100.0	Pass
6	0.0380	0.0380	100.0	Pass
7	0.0609	0.0609	100.0	Pass
8	0.0884	0.0884	100.0	Pass
9	0.0659	0.0659	100.0	Pass
10	0.0636	0.0636	100.0	Pass
11	0.0453	0.0453	100.0	Pass
12	0.0571	0.0571	100.0	Pass
13	0.0903	0.0903	100.0	Pass
14	0.0352	0.0352	100.0	Pass
15	0.0735	0.0735	100.0	Pass
16	0.0304	0.0304	100.0	Pass
17	0.0445	0.0445	100.0	Pass
18	0.0294	0.0294	100.0	Pass
19	0.0371	0.0371	100.0	Pass
20	0.0417	0.0417	100.0	Pass
21	0.0391	0.0391	100.0	Pass
22	0.0217	0.0217	100.0	Pass
23	0.1154	0.1154	100.0	Pass
24	0.0273	0.0273	100.0	Pass
25	0.0505	0.0505	100.0	Pass
26	0.0303	0.0303	100.0	Pass
27	0.0282	0.0282	100.0	Pass
28	0.0291	0.0291	100.0	Pass
29	0.0379	0.0379	100.0	Pass
30	0.0800	0.0800	100.0	Pass
Jul1	0.0193	0.0193	100.0	Pass
2	0.0174	0.0174	100.0	Pass
3	0.0197	0.0197	100.0	Pass
4	0.0482	0.0482	100.0	Pass
5	0.0350	0.0350	100.0	Pass
6	0.0268	0.0268	100.0	Pass
7	0.0505	0.0505	100.0	Pass
8	0.0278	0.0278	100.0	Pass

9	0.0599	0.0599	100.0	Pass
10	0.0381	0.0381	100.0	Pass
11	0.0765	0.0765	100.0	Pass
12	0.0353	0.0353	100.0	Pass
13	0.0279	0.0279	100.0	Pass
14	0.0444	0.0444	100.0	Pass
15	0.0181	0.0181	100.0	Pass
16	0.0114	0.0114	100.0	Pass
17	0.0386	0.0386	100.0	Pass
18	0.0122	0.0122	100.0	Pass
19	0.0168	0.0168	100.0	Pass
20	0.0288	0.0288	100.0	Pass
21	0.0223	0.0223	100.0	Pass
22	0.0014	0.0014	100.0	Pass
23	0.0065	0.0065	100.0	Pass
24	0.0075	0.0075	100.0	Pass
25	0.0173	0.0173	100.0	Pass
26	0.0076	0.0076	100.0	Pass
27	0.0108	0.0108	100.0	Pass
28	0.0091	0.0091	100.0	Pass
29	0.0059	0.0059	100.0	Pass
30	0.0102	0.0102	100.0	Pass
31	0.0114	0.0114	100.0	Pass
Aug1	0.0464	0.0464	100.0	Pass
2	0.0159	0.0159	100.0	Pass
3	0.0064	0.0064	100.0	Pass
4	0.0062	0.0062	100.0	Pass
5	0.0524	0.0524	100.0	Pass
6	0.0354	0.0354	100.0	Pass
7	0.0125	0.0125	100.0	Pass
8	0.0130	0.0130	100.0	Pass
9	0.0012	0.0012	100.0	Pass
10	0.0072	0.0072	100.0	Pass
11	0.0338	0.0338	100.0	Pass
12	0.0295	0.0295	100.0	Pass
13	0.0363	0.0363	100.0	Pass
14	0.0216	0.0216	100.0	Pass
15	0.0194	0.0194	100.0	Pass
16	0.0176	0.0176	100.0	Pass
17	0.0344	0.0344	100.0	Pass
18	0.0644	0.0644	100.0	Pass
19	0.0174	0.0174	100.0	Pass
20	0.0504	0.0504	100.0	Pass
21	0.0453	0.0453	100.0	Pass
22	0.0889	0.0889	100.0	Pass
23	0.0815	0.0815	100.0	Pass
24	0.0679	0.0679	100.0	Pass
25	0.0272	0.0272	100.0	Pass
26	0.0849	0.0849	100.0	Pass
27	0.0856	0.0856	100.0	Pass
28	0.0844	0.0844	100.0	Pass
29	0.0541	0.0541	100.0	Pass
30	0.0879	0.0879	100.0	Pass
31	0.1379	0.1379	100.0	Pass
Sep1	0.0506	0.0506	100.0	Pass
2	0.0528	0.0528	100.0	Pass
3	0.0588	0.0588	100.0	Pass

4	0.0748	0.0748	100.0	Pass
5	0.0632	0.0632	100.0	Pass
6	0.0440	0.0440	100.0	Pass
7	0.0862	0.0862	100.0	Pass
8	0.0539	0.0539	100.0	Pass
9	0.1407	0.1407	100.0	Pass
10	0.0312	0.0312	100.0	Pass
11	0.0278	0.0278	100.0	Pass
12	0.0756	0.0756	100.0	Pass
13	0.1377	0.1377	100.0	Pass
14	0.0863	0.0863	100.0	Pass
15	0.1329	0.1329	100.0	Pass
16	0.1376	0.1376	100.0	Pass
17	0.1515	0.1515	100.0	Pass
18	0.1354	0.1354	100.0	Pass
19	0.1440	0.1440	100.0	Pass
20	0.1025	0.1025	100.0	Pass
21	0.1436	0.1436	100.0	Pass
22	0.1142	0.1142	100.0	Pass
23	0.0916	0.0916	100.0	Pass
24	0.0654	0.0654	100.0	Pass
25	0.0713	0.0713	100.0	Pass
26	0.0715	0.0715	100.0	Pass
27	0.0968	0.0968	100.0	Pass
28	0.0852	0.0852	100.0	Pass
29	0.1131	0.1131	100.0	Pass
30	0.0797	0.0797	100.0	Pass
Oct1	0.0566	0.0566	100.0	Pass
2	0.1464	0.1464	100.0	Pass
3	0.1292	0.1292	100.0	Pass
4	0.1577	0.1577	100.0	Pass
5	0.1672	0.1672	100.0	Pass
6	0.1840	0.1840	100.0	Pass
7	0.2353	0.2353	100.0	Pass
8	0.1887	0.1887	100.0	Pass
9	0.1455	0.1455	100.0	Pass
10	0.1190	0.1190	100.0	Pass
11	0.2317	0.2317	100.0	Pass
12	0.1525	0.1525	100.0	Pass
13	0.2161	0.2161	100.0	Pass
14	0.1187	0.1187	100.0	Pass
15	0.1442	0.1442	100.0	Pass
16	0.1929	0.1929	100.0	Pass
17	0.1763	0.1763	100.0	Pass
18	0.2842	0.2842	100.0	Pass
19	0.3479	0.3479	100.0	Pass
20	0.2984	0.2984	100.0	Pass
21	0.3609	0.3609	100.0	Pass
22	0.2053	0.2053	100.0	Pass
23	0.3509	0.3509	100.0	Pass
24	0.3053	0.3053	100.0	Pass
25	0.2714	0.2714	100.0	Pass
26	0.3324	0.3324	100.0	Pass
27	0.2785	0.2785	100.0	Pass
28	0.2598	0.2598	100.0	Pass
29	0.2182	0.2182	100.0	Pass
30	0.3311	0.3311	100.0	Pass

31	0.2736	0.2736	100.0	Pass
Nov1	0.3476	0.3476	100.0	Pass
2	0.4246	0.4246	100.0	Pass
3	0.3212	0.3212	100.0	Pass
4	0.3294	0.3294	100.0	Pass
5	0.3651	0.3651	100.0	Pass
6	0.3004	0.3004	100.0	Pass
7	0.2727	0.2727	100.0	Pass
8	0.3595	0.3595	100.0	Pass
9	0.4238	0.4238	100.0	Pass
10	0.3586	0.3586	100.0	Pass
11	0.4029	0.4029	100.0	Pass
12	0.3723	0.3723	100.0	Pass
13	0.2720	0.2720	100.0	Pass
14	0.3272	0.3272	100.0	Pass
15	0.3671	0.3671	100.0	Pass
16	0.3849	0.3849	100.0	Pass
17	0.3483	0.3483	100.0	Pass
18	0.5191	0.5191	100.0	Pass
19	0.4568	0.4568	100.0	Pass
20	0.2943	0.2943	100.0	Pass
21	0.4804	0.4804	100.0	Pass
22	0.5724	0.5724	100.0	Pass
23	0.4234	0.4234	100.0	Pass
24	0.4907	0.4907	100.0	Pass
25	0.3135	0.3135	100.0	Pass
26	0.2543	0.2543	100.0	Pass
27	0.3204	0.3204	100.0	Pass
28	0.3057	0.3057	100.0	Pass
29	0.5155	0.5155	100.0	Pass
30	0.4014	0.4014	100.0	Pass
Dec1	0.4474	0.4474	100.0	Pass
2	0.4289	0.4289	100.0	Pass
3	0.2685	0.2685	100.0	Pass
4	0.3056	0.3056	100.0	Pass
5	0.2590	0.2590	100.0	Pass
6	0.2270	0.2270	100.0	Pass
7	0.3350	0.3350	100.0	Pass
8	0.4213	0.4213	100.0	Pass
9	0.4120	0.4120	100.0	Pass
10	0.4439	0.4439	100.0	Pass
11	0.3187	0.3187	100.0	Pass
12	0.3501	0.3501	100.0	Pass
13	0.5304	0.5304	100.0	Pass
14	0.3540	0.3540	100.0	Pass
15	0.4770	0.4770	100.0	Pass
16	0.3097	0.3097	100.0	Pass
17	0.3803	0.3803	100.0	Pass
18	0.3095	0.3095	100.0	Pass
19	0.3705	0.3705	100.0	Pass
20	0.3583	0.3583	100.0	Pass
21	0.3946	0.3946	100.0	Pass
22	0.3891	0.3891	100.0	Pass
23	0.4249	0.4249	100.0	Pass
24	0.4735	0.4735	100.0	Pass
25	0.4019	0.4019	100.0	Pass
26	0.3659	0.3659	100.0	Pass

27	0.2414	0.2414	100.0	Pass
28	0.3981	0.3981	100.0	Pass
29	0.2530	0.2530	100.0	Pass
30	0.2701	0.2701	100.0	Pass
31	0.4655	0.4655	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #6

Total Pervious Area:1.631

Total Impervious Area:3.566

Mitigated Landuse Totals for POC #6

Total Pervious Area:1.631

Total Impervious Area:3.566

Flow Frequency Return Periods for Predeveloped. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	3.272176
5 year	3.947608
10 year	4.317169
25 year	4.719688
50 year	4.982683
100 year	5.220241

Flow Frequency Return Periods for Mitigated. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	3.272176
5 year	3.947608
10 year	4.317169
25 year	4.719688
50 year	4.982683
100 year	5.220241

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #6

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	3.573	3.573
1957	4.344	4.344
1958	3.272	3.272
1959	3.375	3.375
1960	3.535	3.535
1961	2.648	2.648
1962	4.681	4.681
1963	4.269	4.269
1964	3.591	3.591
1965	3.643	3.643
1966	3.608	3.608
1967	2.189	2.189

1968	3.442	3.442
1969	3.310	3.310
1970	2.947	2.947
1971	4.752	4.752
1972	4.054	4.054
1973	3.660	3.660
1974	3.597	3.597
1975	3.117	3.117
1976	3.853	3.853
1977	2.726	2.726
1978	4.821	4.821
1979	3.049	3.049
1980	2.758	2.758
1981	3.534	3.534
1982	4.083	4.083
1983	3.228	3.228
1984	3.018	3.018
1985	2.141	2.141
1986	3.656	3.656
1987	2.525	2.525
1988	3.878	3.878
1989	3.223	3.223
1990	4.291	4.291
1991	2.623	2.623
1992	2.075	2.075
1993	2.306	2.306
1994	3.049	3.049
1995	2.732	2.732
1996	3.382	3.382
1997	3.522	3.522
1998	2.136	2.136
1999	2.782	2.782
2000	2.569	2.569
2001	2.411	2.411
2002	3.465	3.465
2003	4.568	4.568
2004	4.195	4.195
2005	3.276	3.276
2006	3.352	3.352
2007	4.003	4.003
2008	1.966	1.966
2009	1.835	1.835

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	4.8208	4.8208
2	4.7515	4.7515
3	4.6808	4.6808
4	4.5682	4.5682
5	4.3437	4.3437
6	4.2912	4.2912
7	4.2688	4.2688
8	4.1947	4.1947
9	4.0832	4.0832
10	4.0539	4.0539

11	4.0032	4.0032
12	3.8775	3.8775
13	3.8533	3.8533
14	3.6598	3.6598
15	3.6565	3.6565
16	3.6432	3.6432
17	3.6078	3.6078
18	3.5971	3.5971
19	3.5910	3.5910
20	3.5728	3.5728
21	3.5354	3.5354
22	3.5340	3.5340
23	3.5216	3.5216
24	3.4651	3.4651
25	3.4417	3.4417
26	3.3825	3.3825
27	3.3750	3.3750
28	3.3517	3.3517
29	3.3100	3.3100
30	3.2758	3.2758
31	3.2717	3.2717
32	3.2278	3.2278
33	3.2230	3.2230
34	3.1171	3.1171
35	3.0489	3.0489
36	3.0488	3.0488
37	3.0184	3.0184
38	2.9467	2.9467
39	2.7817	2.7817
40	2.7577	2.7577
41	2.7324	2.7324
42	2.7257	2.7257
43	2.6483	2.6483
44	2.6234	2.6234
45	2.5687	2.5687
46	2.5251	2.5251
47	2.4113	2.4113
48	2.3058	2.3058
49	2.1886	2.1886
50	2.1409	2.1409
51	2.1364	2.1364
52	2.0754	2.0754
53	1.9658	1.9658
54	1.8353	1.8353

Stream Protection Duration

POC #6

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.6361	924	924	100	Pass
1.6699	851	851	100	Pass
1.7037	794	794	100	Pass
1.7375	751	751	100	Pass

1.7713	688	688	100	Pass
1.8051	637	637	100	Pass
1.8389	594	594	100	Pass
1.8727	557	557	100	Pass
1.9065	523	523	100	Pass
1.9403	489	489	100	Pass
1.9741	455	455	100	Pass
2.0079	420	420	100	Pass
2.0417	394	394	100	Pass
2.0755	369	369	100	Pass
2.1093	342	342	100	Pass
2.1431	318	318	100	Pass
2.1770	300	300	100	Pass
2.2108	282	282	100	Pass
2.2446	257	257	100	Pass
2.2784	245	245	100	Pass
2.3122	230	230	100	Pass
2.3460	218	218	100	Pass
2.3798	208	208	100	Pass
2.4136	196	196	100	Pass
2.4474	183	183	100	Pass
2.4812	178	178	100	Pass
2.5150	167	167	100	Pass
2.5488	161	161	100	Pass
2.5826	153	153	100	Pass
2.6164	144	144	100	Pass
2.6502	135	135	100	Pass
2.6840	132	132	100	Pass
2.7178	126	126	100	Pass
2.7516	113	113	100	Pass
2.7854	101	101	100	Pass
2.8192	97	97	100	Pass
2.8530	96	96	100	Pass
2.8868	93	93	100	Pass
2.9206	89	89	100	Pass
2.9544	87	87	100	Pass
2.9882	82	82	100	Pass
3.0221	80	80	100	Pass
3.0559	77	77	100	Pass
3.0897	71	71	100	Pass
3.1235	67	67	100	Pass
3.1573	63	63	100	Pass
3.1911	61	61	100	Pass
3.2249	55	55	100	Pass
3.2587	53	53	100	Pass
3.2925	49	49	100	Pass
3.3263	47	47	100	Pass
3.3601	46	46	100	Pass
3.3939	42	42	100	Pass
3.4277	42	42	100	Pass
3.4615	41	41	100	Pass
3.4953	39	39	100	Pass
3.5291	37	37	100	Pass
3.5629	35	35	100	Pass
3.5967	32	32	100	Pass
3.6305	28	28	100	Pass
3.6643	24	24	100	Pass

3.6981	24	24	100	Pass
3.7319	23	23	100	Pass
3.7657	22	22	100	Pass
3.7995	21	21	100	Pass
3.8333	20	20	100	Pass
3.8672	19	19	100	Pass
3.9010	17	17	100	Pass
3.9348	16	16	100	Pass
3.9686	15	15	100	Pass
4.0024	15	15	100	Pass
4.0362	13	13	100	Pass
4.0700	11	11	100	Pass
4.1038	10	10	100	Pass
4.1376	10	10	100	Pass
4.1714	10	10	100	Pass
4.2052	9	9	100	Pass
4.2390	9	9	100	Pass
4.2728	8	8	100	Pass
4.3066	7	7	100	Pass
4.3404	7	7	100	Pass
4.3742	5	5	100	Pass
4.4080	5	5	100	Pass
4.4418	5	5	100	Pass
4.4756	5	5	100	Pass
4.5094	4	4	100	Pass
4.5432	4	4	100	Pass
4.5770	3	3	100	Pass
4.6108	3	3	100	Pass
4.6446	3	3	100	Pass
4.6784	3	3	100	Pass
4.7123	2	2	100	Pass
4.7461	2	2	100	Pass
4.7799	1	1	100	Pass
4.8137	1	1	100	Pass
4.8475	0	0	100	Pass
4.8813	0	0	0	Pass
4.9151	0	0	0	Pass
4.9489	0	0	0	Pass
4.9827	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #6

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 6

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan 214.5714 214.5714 100.0 Pass

Feb 164.8716 164.8716 100.0 Pass

Mar 146.5397 146.5397 100.0 Pass

Apr	81.5085	81.5085	100.0	Pass
May	42.9119	42.9119	100.0	Pass
Jun	28.1428	28.1428	100.0	Pass
Jul	13.6870	13.6870	100.0	Pass
Aug	20.0943	20.0943	100.0	Pass
Sep	46.7016	46.7016	100.0	Pass
Oct	116.3279	116.3279	100.0	Pass
Nov	201.9228	201.9228	100.0	Pass
Dec	206.9962	206.9962	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	6.8576	6.8576	100.0	Pass
2	5.4932	5.4932	100.0	Pass
3	6.8491	6.8491	100.0	Pass
4	7.9423	7.9423	100.0	Pass
5	5.9783	5.9783	100.0	Pass
6	8.6652	8.6652	100.0	Pass
7	6.9340	6.9340	100.0	Pass
8	6.9150	6.9150	100.0	Pass
9	7.2874	7.2874	100.0	Pass
10	7.1695	7.1695	100.0	Pass
11	8.6741	8.6741	100.0	Pass
12	6.9362	6.9362	100.0	Pass
13	8.5797	8.5797	100.0	Pass
14	8.5946	8.5946	100.0	Pass
15	7.9028	7.9028	100.0	Pass
16	6.6115	6.6115	100.0	Pass
17	6.2914	6.2914	100.0	Pass
18	5.5680	5.5680	100.0	Pass
19	5.4887	5.4887	100.0	Pass
20	3.7407	3.7407	100.0	Pass
21	6.6331	6.6331	100.0	Pass
22	8.1728	8.1728	100.0	Pass
23	9.2146	9.2146	100.0	Pass
24	6.4936	6.4936	100.0	Pass
25	5.5331	5.5331	100.0	Pass
26	4.9936	4.9936	100.0	Pass
27	6.1082	6.1082	100.0	Pass
28	7.7035	7.7035	100.0	Pass
29	6.0459	6.0459	100.0	Pass
30	7.0265	7.0265	100.0	Pass
31	4.4197	4.4197	100.0	Pass
Feb1	4.8993	4.8993	100.0	Pass
2	4.4495	4.4495	100.0	Pass
3	4.0511	4.0511	100.0	Pass
4	3.7503	3.7503	100.0	Pass
5	6.6456	6.6456	100.0	Pass
6	3.6043	3.6043	100.0	Pass
7	4.9652	4.9652	100.0	Pass
8	3.8756	3.8756	100.0	Pass
9	4.5380	4.5380	100.0	Pass
10	5.9717	5.9717	100.0	Pass
11	7.9034	7.9034	100.0	Pass
12	6.3806	6.3806	100.0	Pass
13	6.7320	6.7320	100.0	Pass
14	9.2614	9.2614	100.0	Pass
15	7.0249	7.0249	100.0	Pass

16	8.9329	8.9329	100.0	Pass
17	7.9960	7.9960	100.0	Pass
18	6.4596	6.4596	100.0	Pass
19	5.6037	5.6037	100.0	Pass
20	5.3630	5.3630	100.0	Pass
21	4.4058	4.4058	100.0	Pass
22	6.2564	6.2564	100.0	Pass
23	5.9965	5.9965	100.0	Pass
24	6.5821	6.5821	100.0	Pass
25	5.9681	5.9681	100.0	Pass
26	5.8674	5.8674	100.0	Pass
27	5.1894	5.1894	100.0	Pass
28	6.4573	6.4573	100.0	Pass
29	4.9698	4.9698	100.0	Pass
Mar1	4.8808	4.8808	100.0	Pass
2	4.0504	4.0504	100.0	Pass
3	5.5373	5.5373	100.0	Pass
4	5.8253	5.8253	100.0	Pass
5	4.6463	4.6463	100.0	Pass
6	5.8260	5.8260	100.0	Pass
7	5.6890	5.6890	100.0	Pass
8	5.5512	5.5512	100.0	Pass
9	5.5762	5.5762	100.0	Pass
10	4.9006	4.9006	100.0	Pass
11	5.2713	5.2713	100.0	Pass
12	4.6941	4.6941	100.0	Pass
13	5.6230	5.6230	100.0	Pass
14	4.5451	4.5451	100.0	Pass
15	3.7358	3.7358	100.0	Pass
16	3.5602	3.5602	100.0	Pass
17	4.7587	4.7587	100.0	Pass
18	3.0144	3.0144	100.0	Pass
19	4.3301	4.3301	100.0	Pass
20	3.5488	3.5488	100.0	Pass
21	5.8027	5.8027	100.0	Pass
22	6.5393	6.5393	100.0	Pass
23	5.5467	5.5467	100.0	Pass
24	3.6995	3.6995	100.0	Pass
25	5.3920	5.3920	100.0	Pass
26	4.0371	4.0371	100.0	Pass
27	3.8223	3.8223	100.0	Pass
28	4.2638	4.2638	100.0	Pass
29	3.9151	3.9151	100.0	Pass
30	2.9970	2.9970	100.0	Pass
31	2.4274	2.4274	100.0	Pass
Apr1	2.5372	2.5372	100.0	Pass
2	2.8199	2.8199	100.0	Pass
3	3.8037	3.8037	100.0	Pass
4	3.5062	3.5062	100.0	Pass
5	3.8066	3.8066	100.0	Pass
6	2.1422	2.1422	100.0	Pass
7	3.3353	3.3353	100.0	Pass
8	3.3957	3.3957	100.0	Pass
9	3.0238	3.0238	100.0	Pass
10	3.0101	3.0101	100.0	Pass
11	4.0187	4.0187	100.0	Pass
12	3.5262	3.5262	100.0	Pass

13	3.6615	3.6615	100.0	Pass
14	3.1686	3.1686	100.0	Pass
15	3.3714	3.3714	100.0	Pass
16	1.9799	1.9799	100.0	Pass
17	2.5693	2.5693	100.0	Pass
18	2.9290	2.9290	100.0	Pass
19	1.6718	1.6718	100.0	Pass
20	1.5784	1.5784	100.0	Pass
21	2.5475	2.5475	100.0	Pass
22	2.1743	2.1743	100.0	Pass
23	1.9235	1.9235	100.0	Pass
24	1.5600	1.5600	100.0	Pass
25	1.8263	1.8263	100.0	Pass
26	3.0358	3.0358	100.0	Pass
27	2.3983	2.3983	100.0	Pass
28	2.4885	2.4885	100.0	Pass
29	1.2795	1.2795	100.0	Pass
30	1.6182	1.6182	100.0	Pass
May1	2.4495	2.4495	100.0	Pass
2	1.8282	1.8282	100.0	Pass
3	1.9526	1.9526	100.0	Pass
4	1.5513	1.5513	100.0	Pass
5	1.4827	1.4827	100.0	Pass
6	1.2561	1.2561	100.0	Pass
7	1.6320	1.6320	100.0	Pass
8	1.0379	1.0379	100.0	Pass
9	1.4070	1.4070	100.0	Pass
10	1.1504	1.1504	100.0	Pass
11	1.0798	1.0798	100.0	Pass
12	1.5081	1.5081	100.0	Pass
13	1.6198	1.6198	100.0	Pass
14	1.5793	1.5793	100.0	Pass
15	1.1037	1.1037	100.0	Pass
16	1.3844	1.3844	100.0	Pass
17	1.1476	1.1476	100.0	Pass
18	1.7998	1.7998	100.0	Pass
19	0.9969	0.9969	100.0	Pass
20	0.9546	0.9546	100.0	Pass
21	0.9842	0.9842	100.0	Pass
22	1.1624	1.1624	100.0	Pass
23	1.0379	1.0379	100.0	Pass
24	1.0960	1.0960	100.0	Pass
25	0.9299	0.9299	100.0	Pass
26	1.5690	1.5690	100.0	Pass
27	1.2509	1.2509	100.0	Pass
28	1.3361	1.3361	100.0	Pass
29	1.8109	1.8109	100.0	Pass
30	1.2003	1.2003	100.0	Pass
31	1.3023	1.3023	100.0	Pass
Jun1	1.0036	1.0036	100.0	Pass
2	1.5651	1.5651	100.0	Pass
3	1.4785	1.4785	100.0	Pass
4	1.1166	1.1166	100.0	Pass
5	1.7862	1.7862	100.0	Pass
6	0.7249	0.7249	100.0	Pass
7	1.0561	1.0561	100.0	Pass
8	1.4811	1.4811	100.0	Pass

9	1.1310	1.1310	100.0	Pass
10	1.0683	1.0683	100.0	Pass
11	0.7834	0.7834	100.0	Pass
12	0.9394	0.9394	100.0	Pass
13	1.4766	1.4766	100.0	Pass
14	0.6419	0.6419	100.0	Pass
15	1.2213	1.2213	100.0	Pass
16	0.5653	0.5653	100.0	Pass
17	0.7593	0.7593	100.0	Pass
18	0.5359	0.5359	100.0	Pass
19	0.6153	0.6153	100.0	Pass
20	0.6724	0.6724	100.0	Pass
21	0.6509	0.6509	100.0	Pass
22	0.3812	0.3812	100.0	Pass
23	1.8030	1.8030	100.0	Pass
24	0.5267	0.5267	100.0	Pass
25	0.8327	0.8327	100.0	Pass
26	0.5089	0.5089	100.0	Pass
27	0.4560	0.4560	100.0	Pass
28	0.4653	0.4653	100.0	Pass
29	0.5971	0.5971	100.0	Pass
30	1.2781	1.2781	100.0	Pass
Jul1	0.3543	0.3543	100.0	Pass
2	0.2958	0.2958	100.0	Pass
3	0.3162	0.3162	100.0	Pass
4	0.7319	0.7319	100.0	Pass
5	0.5454	0.5454	100.0	Pass
6	0.4213	0.4213	100.0	Pass
7	0.8048	0.8048	100.0	Pass
8	0.4815	0.4815	100.0	Pass
9	0.9499	0.9499	100.0	Pass
10	0.6344	0.6344	100.0	Pass
11	1.2695	1.2695	100.0	Pass
12	0.6819	0.6819	100.0	Pass
13	0.5101	0.5101	100.0	Pass
14	0.7355	0.7355	100.0	Pass
15	0.3215	0.3215	100.0	Pass
16	0.2006	0.2006	100.0	Pass
17	0.6175	0.6175	100.0	Pass
18	0.2280	0.2280	100.0	Pass
19	0.2805	0.2805	100.0	Pass
20	0.4553	0.4553	100.0	Pass
21	0.3715	0.3715	100.0	Pass
22	0.0451	0.0451	100.0	Pass
23	0.1091	0.1091	100.0	Pass
24	0.1178	0.1178	100.0	Pass
25	0.2614	0.2614	100.0	Pass
26	0.1165	0.1165	100.0	Pass
27	0.1629	0.1629	100.0	Pass
28	0.1410	0.1410	100.0	Pass
29	0.0935	0.0935	100.0	Pass
30	0.1556	0.1556	100.0	Pass
31	0.1734	0.1734	100.0	Pass
Aug1	0.7048	0.7048	100.0	Pass
2	0.2664	0.2664	100.0	Pass
3	0.1185	0.1185	100.0	Pass
4	0.1064	0.1064	100.0	Pass

5	0.8102	0.8102	100.0	Pass
6	0.5693	0.5693	100.0	Pass
7	0.2178	0.2178	100.0	Pass
8	0.2114	0.2114	100.0	Pass
9	0.0262	0.0262	100.0	Pass
10	0.1141	0.1141	100.0	Pass
11	0.5130	0.5130	100.0	Pass
12	0.4535	0.4535	100.0	Pass
13	0.5645	0.5645	100.0	Pass
14	0.3566	0.3566	100.0	Pass
15	0.3291	0.3291	100.0	Pass
16	0.2865	0.2865	100.0	Pass
17	0.5260	0.5260	100.0	Pass
18	0.9823	0.9823	100.0	Pass
19	0.3036	0.3036	100.0	Pass
20	0.7801	0.7801	100.0	Pass
21	0.7272	0.7272	100.0	Pass
22	1.4044	1.4044	100.0	Pass
23	1.3364	1.3364	100.0	Pass
24	1.1894	1.1894	100.0	Pass
25	0.5230	0.5230	100.0	Pass
26	1.3570	1.3570	100.0	Pass
27	1.4024	1.4024	100.0	Pass
28	1.4120	1.4120	100.0	Pass
29	0.9215	0.9215	100.0	Pass
30	1.4087	1.4087	100.0	Pass
31	2.2405	2.2405	100.0	Pass
Sep1	0.9542	0.9542	100.0	Pass
2	0.9349	0.9349	100.0	Pass
3	0.9980	0.9980	100.0	Pass
4	1.2251	1.2251	100.0	Pass
5	1.0527	1.0527	100.0	Pass
6	0.7472	0.7472	100.0	Pass
7	1.3639	1.3639	100.0	Pass
8	0.8996	0.8996	100.0	Pass
9	2.2128	2.2128	100.0	Pass
10	0.5705	0.5705	100.0	Pass
11	0.4769	0.4769	100.0	Pass
12	1.1967	1.1967	100.0	Pass
13	2.1990	2.1990	100.0	Pass
14	1.4631	1.4631	100.0	Pass
15	2.1706	2.1706	100.0	Pass
16	2.3361	2.3361	100.0	Pass
17	2.5140	2.5140	100.0	Pass
18	2.2705	2.2705	100.0	Pass
19	2.4508	2.4508	100.0	Pass
20	1.8387	1.8387	100.0	Pass
21	2.4971	2.4971	100.0	Pass
22	2.0101	2.0101	100.0	Pass
23	1.6076	1.6076	100.0	Pass
24	1.1563	1.1563	100.0	Pass
25	1.1998	1.1998	100.0	Pass
26	1.1999	1.1999	100.0	Pass
27	1.6381	1.6381	100.0	Pass
28	1.4234	1.4234	100.0	Pass
29	1.8603	1.8603	100.0	Pass
30	1.3824	1.3824	100.0	Pass

Oct1	1.0057	1.0057	100.0	Pass
2	2.3425	2.3425	100.0	Pass
3	2.1254	2.1254	100.0	Pass
4	2.6259	2.6259	100.0	Pass
5	2.7908	2.7908	100.0	Pass
6	3.0633	3.0633	100.0	Pass
7	3.9425	3.9425	100.0	Pass
8	3.2678	3.2678	100.0	Pass
9	2.5735	2.5735	100.0	Pass
10	2.1149	2.1149	100.0	Pass
11	3.8243	3.8243	100.0	Pass
12	2.6637	2.6637	100.0	Pass
13	3.6135	3.6135	100.0	Pass
14	2.1750	2.1750	100.0	Pass
15	2.5131	2.5131	100.0	Pass
16	3.3196	3.3196	100.0	Pass
17	3.0648	3.0648	100.0	Pass
18	4.8555	4.8555	100.0	Pass
19	6.0074	6.0074	100.0	Pass
20	5.2049	5.2049	100.0	Pass
21	6.2719	6.2719	100.0	Pass
22	3.8662	3.8662	100.0	Pass
23	6.1077	6.1077	100.0	Pass
24	5.4210	5.4210	100.0	Pass
25	4.8747	4.8747	100.0	Pass
26	5.8392	5.8392	100.0	Pass
27	5.0463	5.0463	100.0	Pass
28	4.6876	4.6876	100.0	Pass
29	4.0077	4.0077	100.0	Pass
30	5.7440	5.7440	100.0	Pass
31	4.9392	4.9392	100.0	Pass
Nov1	6.1658	6.1658	100.0	Pass
2	7.3333	7.3333	100.0	Pass
3	5.9106	5.9106	100.0	Pass
4	5.9040	5.9040	100.0	Pass
5	6.5272	6.5272	100.0	Pass
6	5.5271	5.5271	100.0	Pass
7	5.0107	5.0107	100.0	Pass
8	6.3112	6.3112	100.0	Pass
9	7.4659	7.4659	100.0	Pass
10	6.4850	6.4850	100.0	Pass
11	7.2027	7.2027	100.0	Pass
12	6.6697	6.6697	100.0	Pass
13	5.1494	5.1494	100.0	Pass
14	5.8804	5.8804	100.0	Pass
15	6.5597	6.5597	100.0	Pass
16	6.8579	6.8579	100.0	Pass
17	6.3185	6.3185	100.0	Pass
18	9.1419	9.1419	100.0	Pass
19	8.2763	8.2763	100.0	Pass
20	5.6346	5.6346	100.0	Pass
21	8.5659	8.5659	100.0	Pass
22	10.0271	10.0271	100.0	Pass
23	7.8577	7.8577	100.0	Pass
24	8.8997	8.8997	100.0	Pass
25	6.0587	6.0587	100.0	Pass
26	4.9112	4.9112	100.0	Pass

27	5.7974	5.7974	100.0	Pass
28	5.5436	5.5436	100.0	Pass
29	9.0039	9.0039	100.0	Pass
30	7.3720	7.3720	100.0	Pass
Dec1	8.0673	8.0673	100.0	Pass
2	7.8687	7.8687	100.0	Pass
3	5.1850	5.1850	100.0	Pass
4	5.6192	5.6192	100.0	Pass
5	4.8788	4.8788	100.0	Pass
6	4.2056	4.2056	100.0	Pass
7	5.9119	5.9119	100.0	Pass
8	7.4177	7.4177	100.0	Pass
9	7.4281	7.4281	100.0	Pass
10	8.0569	8.0569	100.0	Pass
11	5.9580	5.9580	100.0	Pass
12	6.3935	6.3935	100.0	Pass
13	9.2968	9.2968	100.0	Pass
14	6.6958	6.6958	100.0	Pass
15	8.5241	8.5241	100.0	Pass
16	5.9359	5.9359	100.0	Pass
17	6.9211	6.9211	100.0	Pass
18	5.7596	5.7596	100.0	Pass
19	6.6293	6.6293	100.0	Pass
20	6.5550	6.5550	100.0	Pass
21	7.2205	7.2205	100.0	Pass
22	7.0719	7.0719	100.0	Pass
23	7.6735	7.6735	100.0	Pass
24	8.4553	8.4553	100.0	Pass
25	7.4640	7.4640	100.0	Pass
26	6.8446	6.8446	100.0	Pass
27	4.6606	4.6606	100.0	Pass
28	7.0990	7.0990	100.0	Pass
29	4.8536	4.8536	100.0	Pass
30	4.9858	4.9858	100.0	Pass
31	8.1826	8.1826	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #10
Total Pervious Area:0.911
Total Impervious Area:2.649

Mitigated Landuse Totals for POC #10
Total Pervious Area:0.911
Total Impervious Area:2.649

Flow Frequency Return Periods for Predeveloped. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.309299
5 year	2.770219

10 year	3.021373
25 year	3.294189
50 year	3.472055
100 year	3.632474

Flow Frequency Return Periods for Mitigated. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.309299
5 year	2.770219
10 year	3.021373
25 year	3.294189
50 year	3.472055
100 year	3.632474

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #10

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	2.490	2.490
1957	3.055	3.055
1958	2.321	2.321
1959	2.359	2.359
1960	2.465	2.465
1961	1.903	1.903
1962	3.261	3.261
1963	2.982	2.982
1964	2.535	2.535
1965	2.555	2.555
1966	2.518	2.518
1967	1.554	1.554
1968	2.413	2.413
1969	2.309	2.309
1970	2.102	2.102
1971	3.317	3.317
1972	2.820	2.820
1973	2.580	2.580
1974	2.509	2.509
1975	2.192	2.192
1976	2.700	2.700
1977	1.927	1.927
1978	3.394	3.394
1979	2.140	2.140
1980	1.949	1.949
1981	2.497	2.497
1982	2.882	2.882
1983	2.277	2.277
1984	2.118	2.118
1985	1.543	1.543
1986	2.568	2.568
1987	1.779	1.779
1988	2.720	2.720
1989	2.273	2.273
1990	2.996	2.996
1991	1.847	1.847
1992	1.483	1.483
1993	1.655	1.655
1994	2.149	2.149

1995	1.987	1.987
1996	2.445	2.445
1997	2.490	2.490
1998	1.525	1.525
1999	1.968	1.968
2000	1.814	1.814
2001	1.732	1.732
2002	2.546	2.546
2003	3.181	3.181
2004	2.934	2.934
2005	2.302	2.302
2006	2.352	2.352
2007	2.797	2.797
2008	1.406	1.406
2009	1.319	1.319

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #10

Rank	Predeveloped	Mitigated
1	3.3942	3.3942
2	3.3174	3.3174
3	3.2608	3.2608
4	3.1808	3.1808
5	3.0545	3.0545
6	2.9962	2.9962
7	2.9818	2.9818
8	2.9340	2.9340
9	2.8824	2.8824
10	2.8202	2.8202
11	2.7968	2.7968
12	2.7201	2.7201
13	2.6996	2.6996
14	2.5803	2.5803
15	2.5677	2.5677
16	2.5549	2.5549
17	2.5462	2.5462
18	2.5351	2.5351
19	2.5177	2.5177
20	2.5089	2.5089
21	2.4965	2.4965
22	2.4905	2.4905
23	2.4897	2.4897
24	2.4649	2.4649
25	2.4445	2.4445
26	2.4127	2.4127
27	2.3594	2.3594
28	2.3520	2.3520
29	2.3206	2.3206
30	2.3091	2.3091
31	2.3021	2.3021
32	2.2769	2.2769
33	2.2735	2.2735
34	2.1915	2.1915
35	2.1494	2.1494
36	2.1405	2.1405
37	2.1183	2.1183

38	2.1023	2.1023
39	1.9869	1.9869
40	1.9677	1.9677
41	1.9487	1.9487
42	1.9266	1.9266
43	1.9030	1.9030
44	1.8471	1.8471
45	1.8143	1.8143
46	1.7793	1.7793
47	1.7320	1.7320
48	1.6547	1.6547
49	1.5542	1.5542
50	1.5430	1.5430
51	1.5252	1.5252
52	1.4833	1.4833
53	1.4065	1.4065
54	1.3190	1.3190

Stream Protection Duration

POC #10

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.1546	973	973	100	Pass
1.1781	905	905	100	Pass
1.2015	843	843	100	Pass
1.2249	788	788	100	Pass
1.2483	739	739	100	Pass
1.2717	682	682	100	Pass
1.2951	624	624	100	Pass
1.3185	586	586	100	Pass
1.3419	545	545	100	Pass
1.3653	513	513	100	Pass
1.3887	479	479	100	Pass
1.4121	444	444	100	Pass
1.4355	416	416	100	Pass
1.4590	383	383	100	Pass
1.4824	359	359	100	Pass
1.5058	334	334	100	Pass
1.5292	310	310	100	Pass
1.5526	293	293	100	Pass
1.5760	274	274	100	Pass
1.5994	255	255	100	Pass
1.6228	246	246	100	Pass
1.6462	232	232	100	Pass
1.6696	216	216	100	Pass
1.6930	204	204	100	Pass
1.7164	192	192	100	Pass
1.7399	184	184	100	Pass
1.7633	176	176	100	Pass
1.7867	167	167	100	Pass
1.8101	161	161	100	Pass
1.8335	151	151	100	Pass
1.8569	143	143	100	Pass

1.8803	137	137	100	Pass
1.9037	130	130	100	Pass
1.9271	119	119	100	Pass
1.9505	107	107	100	Pass
1.9739	100	100	100	Pass
1.9973	97	97	100	Pass
2.0208	94	94	100	Pass
2.0442	90	90	100	Pass
2.0676	88	88	100	Pass
2.0910	87	87	100	Pass
2.1144	82	82	100	Pass
2.1378	79	79	100	Pass
2.1612	73	73	100	Pass
2.1846	70	70	100	Pass
2.2080	66	66	100	Pass
2.2314	63	63	100	Pass
2.2548	60	60	100	Pass
2.2782	53	53	100	Pass
2.3016	52	52	100	Pass
2.3251	48	48	100	Pass
2.3485	47	47	100	Pass
2.3719	44	44	100	Pass
2.3953	43	43	100	Pass
2.4187	42	42	100	Pass
2.4421	42	42	100	Pass
2.4655	39	39	100	Pass
2.4889	38	38	100	Pass
2.5123	32	32	100	Pass
2.5357	31	31	100	Pass
2.5591	27	27	100	Pass
2.5825	23	23	100	Pass
2.6060	22	22	100	Pass
2.6294	22	22	100	Pass
2.6528	22	22	100	Pass
2.6762	21	21	100	Pass
2.6996	20	20	100	Pass
2.7230	18	18	100	Pass
2.7464	16	16	100	Pass
2.7698	15	15	100	Pass
2.7932	15	15	100	Pass
2.8166	13	13	100	Pass
2.8400	11	11	100	Pass
2.8634	11	11	100	Pass
2.8869	10	10	100	Pass
2.9103	10	10	100	Pass
2.9337	10	10	100	Pass
2.9571	9	9	100	Pass
2.9805	9	9	100	Pass
3.0039	7	7	100	Pass
3.0273	6	6	100	Pass
3.0507	6	6	100	Pass
3.0741	5	5	100	Pass
3.0975	5	5	100	Pass
3.1209	5	5	100	Pass
3.1443	4	4	100	Pass
3.1677	4	4	100	Pass
3.1912	3	3	100	Pass

3.2146	3	3	100	Pass
3.2380	3	3	100	Pass
3.2614	2	2	100	Pass
3.2848	2	2	100	Pass
3.3082	2	2	100	Pass
3.3316	1	1	100	Pass
3.3550	1	1	100	Pass
3.3784	1	1	100	Pass
3.4018	0	0	100	Pass
3.4252	0	0	0	Pass
3.4486	0	0	0	Pass
3.4721	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #10
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 10
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	148.8241	148.8241	100.0	Pass
Feb	114.2121	114.2121	100.0	Pass
Mar	101.5941	101.5941	100.0	Pass
Apr	56.7596	56.7596	100.0	Pass
May	30.3024	30.3024	100.0	Pass
Jun	20.0163	20.0163	100.0	Pass
Jul	9.8147	9.8147	100.0	Pass
Aug	14.4873	14.4873	100.0	Pass
Sep	33.2617	33.2617	100.0	Pass
Oct	81.9341	81.9341	100.0	Pass
Nov	140.6323	140.6323	100.0	Pass
Dec	143.5451	143.5451	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	4.7635	4.7635	100.0	Pass
2	3.7845	3.7845	100.0	Pass
3	4.7679	4.7679	100.0	Pass
4	5.5627	5.5627	100.0	Pass
5	4.1162	4.1162	100.0	Pass
6	6.0756	6.0756	100.0	Pass
7	4.7828	4.7828	100.0	Pass
8	4.7881	4.7881	100.0	Pass
9	5.0767	5.0767	100.0	Pass
10	4.9643	4.9643	100.0	Pass
11	6.0398	6.0398	100.0	Pass
12	4.7792	4.7792	100.0	Pass
13	5.9736	5.9736	100.0	Pass
14	5.9650	5.9650	100.0	Pass
15	5.4635	5.4635	100.0	Pass
16	4.5264	4.5264	100.0	Pass

17	4.3225	4.3225	100.0	Pass
18	3.8236	3.8236	100.0	Pass
19	3.7938	3.7938	100.0	Pass
20	2.5423	2.5423	100.0	Pass
21	4.6894	4.6894	100.0	Pass
22	5.7190	5.7190	100.0	Pass
23	6.4210	6.4210	100.0	Pass
24	4.4486	4.4486	100.0	Pass
25	3.7871	3.7871	100.0	Pass
26	3.4190	3.4190	100.0	Pass
27	4.2535	4.2535	100.0	Pass
28	5.3821	5.3821	100.0	Pass
29	4.1671	4.1671	100.0	Pass
30	4.8910	4.8910	100.0	Pass
31	3.0062	3.0062	100.0	Pass
Feb1	3.3805	3.3805	100.0	Pass
2	3.0815	3.0815	100.0	Pass
3	2.7944	2.7944	100.0	Pass
4	2.5871	2.5871	100.0	Pass
5	4.6756	4.6756	100.0	Pass
6	2.4461	2.4461	100.0	Pass
7	3.4652	3.4652	100.0	Pass
8	2.6711	2.6711	100.0	Pass
9	3.1723	3.1723	100.0	Pass
10	4.1952	4.1952	100.0	Pass
11	5.5331	5.5331	100.0	Pass
12	4.4017	4.4017	100.0	Pass
13	4.6817	4.6817	100.0	Pass
14	6.5008	6.5008	100.0	Pass
15	4.8275	4.8275	100.0	Pass
16	6.2305	6.2305	100.0	Pass
17	5.5294	5.5294	100.0	Pass
18	4.4118	4.4118	100.0	Pass
19	3.8357	3.8357	100.0	Pass
20	3.6858	3.6858	100.0	Pass
21	3.0269	3.0269	100.0	Pass
22	4.3621	4.3621	100.0	Pass
23	4.1631	4.1631	100.0	Pass
24	4.5749	4.5749	100.0	Pass
25	4.1223	4.1223	100.0	Pass
26	4.0465	4.0465	100.0	Pass
27	3.5707	3.5707	100.0	Pass
28	4.4706	4.4706	100.0	Pass
29	3.4309	3.4309	100.0	Pass
Mar1	3.3786	3.3786	100.0	Pass
2	2.7858	2.7858	100.0	Pass
3	3.8674	3.8674	100.0	Pass
4	4.0580	4.0580	100.0	Pass
5	3.2111	3.2111	100.0	Pass
6	4.0448	4.0448	100.0	Pass
7	3.9675	3.9675	100.0	Pass
8	3.8506	3.8506	100.0	Pass
9	3.8672	3.8672	100.0	Pass
10	3.3794	3.3794	100.0	Pass
11	3.6531	3.6531	100.0	Pass
12	3.2481	3.2481	100.0	Pass
13	3.9130	3.9130	100.0	Pass

14	3.1322	3.1322	100.0	Pass
15	2.5664	2.5664	100.0	Pass
16	2.4611	2.4611	100.0	Pass
17	3.3114	3.3114	100.0	Pass
18	2.0629	2.0629	100.0	Pass
19	3.0292	3.0292	100.0	Pass
20	2.4596	2.4596	100.0	Pass
21	4.0839	4.0839	100.0	Pass
22	4.5895	4.5895	100.0	Pass
23	3.8334	3.8334	100.0	Pass
24	2.5084	2.5084	100.0	Pass
25	3.7654	3.7654	100.0	Pass
26	2.7713	2.7713	100.0	Pass
27	2.6486	2.6486	100.0	Pass
28	2.9536	2.9536	100.0	Pass
29	2.7149	2.7149	100.0	Pass
30	2.0548	2.0548	100.0	Pass
31	1.6644	1.6644	100.0	Pass
Apr1	1.7582	1.7582	100.0	Pass
2	1.9666	1.9666	100.0	Pass
3	2.6862	2.6862	100.0	Pass
4	2.4464	2.4464	100.0	Pass
5	2.6407	2.6407	100.0	Pass
6	1.4549	1.4549	100.0	Pass
7	2.3429	2.3429	100.0	Pass
8	2.3654	2.3654	100.0	Pass
9	2.1107	2.1107	100.0	Pass
10	2.0861	2.0861	100.0	Pass
11	2.8366	2.8366	100.0	Pass
12	2.4535	2.4535	100.0	Pass
13	2.5593	2.5593	100.0	Pass
14	2.1959	2.1959	100.0	Pass
15	2.3391	2.3391	100.0	Pass
16	1.3421	1.3421	100.0	Pass
17	1.7942	1.7942	100.0	Pass
18	2.0536	2.0536	100.0	Pass
19	1.1352	1.1352	100.0	Pass
20	1.0920	1.0920	100.0	Pass
21	1.8024	1.8024	100.0	Pass
22	1.5252	1.5252	100.0	Pass
23	1.3374	1.3374	100.0	Pass
24	1.0802	1.0802	100.0	Pass
25	1.2855	1.2855	100.0	Pass
26	2.1386	2.1386	100.0	Pass
27	1.6720	1.6720	100.0	Pass
28	1.7347	1.7347	100.0	Pass
29	0.8661	0.8661	100.0	Pass
30	1.1355	1.1355	100.0	Pass
May1	1.7426	1.7426	100.0	Pass
2	1.2734	1.2734	100.0	Pass
3	1.3753	1.3753	100.0	Pass
4	1.0786	1.0786	100.0	Pass
5	1.0374	1.0374	100.0	Pass
6	0.8801	0.8801	100.0	Pass
7	1.1547	1.1547	100.0	Pass
8	0.7199	0.7199	100.0	Pass
9	0.9971	0.9971	100.0	Pass

10	0.8115	0.8115	100.0	Pass
11	0.7635	0.7635	100.0	Pass
12	1.0713	1.0713	100.0	Pass
13	1.1503	1.1503	100.0	Pass
14	1.1213	1.1213	100.0	Pass
15	0.7648	0.7648	100.0	Pass
16	0.9832	0.9832	100.0	Pass
17	0.8053	0.8053	100.0	Pass
18	1.2908	1.2908	100.0	Pass
19	0.6955	0.6955	100.0	Pass
20	0.6758	0.6758	100.0	Pass
21	0.6972	0.6972	100.0	Pass
22	0.8321	0.8321	100.0	Pass
23	0.7356	0.7356	100.0	Pass
24	0.7764	0.7764	100.0	Pass
25	0.6538	0.6538	100.0	Pass
26	1.1221	1.1221	100.0	Pass
27	0.8836	0.8836	100.0	Pass
28	0.9490	0.9490	100.0	Pass
29	1.2872	1.2872	100.0	Pass
30	0.8412	0.8412	100.0	Pass
31	0.9155	0.9155	100.0	Pass
Jun1	0.6971	0.6971	100.0	Pass
2	1.1232	1.1232	100.0	Pass
3	1.0567	1.0567	100.0	Pass
4	0.7884	0.7884	100.0	Pass
5	1.2791	1.2791	100.0	Pass
6	0.4964	0.4964	100.0	Pass
7	0.7446	0.7446	100.0	Pass
8	1.0562	1.0562	100.0	Pass
9	0.8001	0.8001	100.0	Pass
10	0.7610	0.7610	100.0	Pass
11	0.5529	0.5529	100.0	Pass
12	0.6738	0.6738	100.0	Pass
13	1.0612	1.0612	100.0	Pass
14	0.4455	0.4455	100.0	Pass
15	0.8734	0.8734	100.0	Pass
16	0.3900	0.3900	100.0	Pass
17	0.5383	0.5383	100.0	Pass
18	0.3718	0.3718	100.0	Pass
19	0.4403	0.4403	100.0	Pass
20	0.4854	0.4854	100.0	Pass
21	0.4651	0.4651	100.0	Pass
22	0.2677	0.2677	100.0	Pass
23	1.3159	1.3159	100.0	Pass
24	0.3594	0.3594	100.0	Pass
25	0.5967	0.5967	100.0	Pass
26	0.3626	0.3626	100.0	Pass
27	0.3289	0.3289	100.0	Pass
28	0.3370	0.3370	100.0	Pass
29	0.4346	0.4346	100.0	Pass
30	0.9260	0.9260	100.0	Pass
Jul1	0.2454	0.2454	100.0	Pass
2	0.2099	0.2099	100.0	Pass
3	0.2286	0.2286	100.0	Pass
4	0.5394	0.5394	100.0	Pass
5	0.3986	0.3986	100.0	Pass

6	0.3067	0.3067	100.0	Pass
7	0.5835	0.5835	100.0	Pass
8	0.3398	0.3398	100.0	Pass
9	0.6897	0.6897	100.0	Pass
10	0.4534	0.4534	100.0	Pass
11	0.9079	0.9079	100.0	Pass
12	0.4650	0.4650	100.0	Pass
13	0.3537	0.3537	100.0	Pass
14	0.5264	0.5264	100.0	Pass
15	0.2248	0.2248	100.0	Pass
16	0.1406	0.1406	100.0	Pass
17	0.4470	0.4470	100.0	Pass
18	0.1570	0.1570	100.0	Pass
19	0.2002	0.2002	100.0	Pass
20	0.3310	0.3310	100.0	Pass
21	0.2653	0.2653	100.0	Pass
22	0.0270	0.0270	100.0	Pass
23	0.0778	0.0778	100.0	Pass
24	0.0858	0.0858	100.0	Pass
25	0.1930	0.1930	100.0	Pass
26	0.0858	0.0858	100.0	Pass
27	0.1204	0.1204	100.0	Pass
28	0.1034	0.1034	100.0	Pass
29	0.0678	0.0678	100.0	Pass
30	0.1146	0.1146	100.0	Pass
31	0.1277	0.1277	100.0	Pass
Aug1	0.5193	0.5193	100.0	Pass
2	0.1898	0.1898	100.0	Pass
3	0.0817	0.0817	100.0	Pass
4	0.0753	0.0753	100.0	Pass
5	0.5935	0.5935	100.0	Pass
6	0.4116	0.4116	100.0	Pass
7	0.1533	0.1533	100.0	Pass
8	0.1523	0.1523	100.0	Pass
9	0.0171	0.0171	100.0	Pass
10	0.0829	0.0829	100.0	Pass
11	0.3781	0.3781	100.0	Pass
12	0.3328	0.3328	100.0	Pass
13	0.4128	0.4128	100.0	Pass
14	0.2553	0.2553	100.0	Pass
15	0.2336	0.2336	100.0	Pass
16	0.2064	0.2064	100.0	Pass
17	0.3867	0.3867	100.0	Pass
18	0.7232	0.7232	100.0	Pass
19	0.2135	0.2135	100.0	Pass
20	0.5714	0.5714	100.0	Pass
21	0.5258	0.5258	100.0	Pass
22	1.0212	1.0212	100.0	Pass
23	0.9598	0.9598	100.0	Pass
24	0.8360	0.8360	100.0	Pass
25	0.3570	0.3570	100.0	Pass
26	0.9828	0.9828	100.0	Pass
27	1.0074	1.0074	100.0	Pass
28	1.0072	1.0072	100.0	Pass
29	0.6535	0.6535	100.0	Pass
30	1.0195	1.0195	100.0	Pass
31	1.6137	1.6137	100.0	Pass

Sep1	0.6553	0.6553	100.0	Pass
2	0.6550	0.6550	100.0	Pass
3	0.7086	0.7086	100.0	Pass
4	0.8801	0.8801	100.0	Pass
5	0.7522	0.7522	100.0	Pass
6	0.5304	0.5304	100.0	Pass
7	0.9913	0.9913	100.0	Pass
8	0.6422	0.6422	100.0	Pass
9	1.6117	1.6117	100.0	Pass
10	0.3955	0.3955	100.0	Pass
11	0.3373	0.3373	100.0	Pass
12	0.8698	0.8698	100.0	Pass
13	1.5931	1.5931	100.0	Pass
14	1.0391	1.0391	100.0	Pass
15	1.5609	1.5609	100.0	Pass
16	1.6587	1.6587	100.0	Pass
17	1.7982	1.7982	100.0	Pass
18	1.6185	1.6185	100.0	Pass
19	1.7385	1.7385	100.0	Pass
20	1.2825	1.2825	100.0	Pass
21	1.7590	1.7590	100.0	Pass
22	1.4107	1.4107	100.0	Pass
23	1.1293	1.1293	100.0	Pass
24	0.8101	0.8101	100.0	Pass
25	0.8543	0.8543	100.0	Pass
26	0.8550	0.8550	100.0	Pass
27	1.1643	1.1643	100.0	Pass
28	1.0160	1.0160	100.0	Pass
29	1.3344	1.3344	100.0	Pass
30	0.9746	0.9746	100.0	Pass
Oct1	0.7036	0.7036	100.0	Pass
2	1.6959	1.6959	100.0	Pass
3	1.5248	1.5248	100.0	Pass
4	1.8762	1.8762	100.0	Pass
5	1.9923	1.9923	100.0	Pass
6	2.1889	2.1889	100.0	Pass
7	2.8110	2.8110	100.0	Pass
8	2.3051	2.3051	100.0	Pass
9	1.8031	1.8031	100.0	Pass
10	1.4798	1.4798	100.0	Pass
11	2.7403	2.7403	100.0	Pass
12	1.8737	1.8737	100.0	Pass
13	2.5784	2.5784	100.0	Pass
14	1.5071	1.5071	100.0	Pass
15	1.7692	1.7692	100.0	Pass
16	2.3465	2.3465	100.0	Pass
17	2.1593	2.1593	100.0	Pass
18	3.4400	3.4400	100.0	Pass
19	4.2416	4.2416	100.0	Pass
20	3.6633	3.6633	100.0	Pass
21	4.4195	4.4195	100.0	Pass
22	2.6569	2.6569	100.0	Pass
23	4.3016	4.3016	100.0	Pass
24	3.7939	3.7939	100.0	Pass
25	3.3991	3.3991	100.0	Pass
26	4.1005	4.1005	100.0	Pass
27	3.5093	3.5093	100.0	Pass

28	3.2641	3.2641	100.0	Pass
29	2.7755	2.7755	100.0	Pass
30	4.0497	4.0497	100.0	Pass
31	3.4387	3.4387	100.0	Pass
Nov1	4.3166	4.3166	100.0	Pass
2	5.1776	5.1776	100.0	Pass
3	4.0909	4.0909	100.0	Pass
4	4.1199	4.1199	100.0	Pass
5	4.5582	4.5582	100.0	Pass
6	3.8253	3.8253	100.0	Pass
7	3.4695	3.4695	100.0	Pass
8	4.4326	4.4326	100.0	Pass
9	5.2378	5.2378	100.0	Pass
10	4.5125	4.5125	100.0	Pass
11	5.0301	5.0301	100.0	Pass
12	4.6548	4.6548	100.0	Pass
13	3.5333	3.5333	100.0	Pass
14	4.0996	4.0996	100.0	Pass
15	4.5818	4.5818	100.0	Pass
16	4.7943	4.7943	100.0	Pass
17	4.3923	4.3923	100.0	Pass
18	6.4147	6.4147	100.0	Pass
19	5.7558	5.7558	100.0	Pass
20	3.8533	3.8533	100.0	Pass
21	5.9870	5.9870	100.0	Pass
22	7.0476	7.0476	100.0	Pass
23	5.4244	5.4244	100.0	Pass
24	6.1871	6.1871	100.0	Pass
25	4.1316	4.1316	100.0	Pass
26	3.3498	3.3498	100.0	Pass
27	4.0333	4.0333	100.0	Pass
28	3.8542	3.8542	100.0	Pass
29	6.3345	6.3345	100.0	Pass
30	5.1054	5.1054	100.0	Pass
Dec1	5.6186	5.6186	100.0	Pass
2	5.4512	5.4512	100.0	Pass
3	3.5368	3.5368	100.0	Pass
4	3.8902	3.8902	100.0	Pass
5	3.3525	3.3525	100.0	Pass
6	2.9046	2.9046	100.0	Pass
7	4.1455	4.1455	100.0	Pass
8	5.2050	5.2050	100.0	Pass
9	5.1738	5.1738	100.0	Pass
10	5.6002	5.6002	100.0	Pass
11	4.1037	4.1037	100.0	Pass
12	4.4354	4.4354	100.0	Pass
13	6.5329	6.5329	100.0	Pass
14	4.5955	4.5955	100.0	Pass
15	5.9534	5.9534	100.0	Pass
16	4.0580	4.0580	100.0	Pass
17	4.8066	4.8066	100.0	Pass
18	3.9727	3.9727	100.0	Pass
19	4.6284	4.6284	100.0	Pass
20	4.5448	4.5448	100.0	Pass
21	5.0060	5.0060	100.0	Pass
22	4.9132	4.9132	100.0	Pass
23	5.3420	5.3420	100.0	Pass

24	5.9068	5.9068	100.0	Pass
25	5.1512	5.1512	100.0	Pass
26	4.7134	4.7134	100.0	Pass
27	3.1792	3.1792	100.0	Pass
28	4.9615	4.9615	100.0	Pass
29	3.3171	3.3171	100.0	Pass
30	3.4475	3.4475	100.0	Pass
31	5.7447	5.7447	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #11

Total Pervious Area:0.431
Total Impervious Area:1.44

Mitigated Landuse Totals for POC #11

Total Pervious Area:0.431
Total Impervious Area:1.44

Flow Frequency Return Periods for Predeveloped. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.229392
5 year	1.471353
10 year	1.602975
25 year	1.745791
50 year	1.838821
100 year	1.922672

Flow Frequency Return Periods for Mitigated. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.229392
5 year	1.471353
10 year	1.602975
25 year	1.745791
50 year	1.838821
100 year	1.922672

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #11

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.318	1.318
1957	1.624	1.624
1958	1.238	1.238
1959	1.251	1.251
1960	1.305	1.305
1961	1.021	1.021
1962	1.726	1.726
1963	1.580	1.580
1964	1.350	1.350

1965	1.357	1.357
1966	1.334	1.334
1967	0.830	0.830
1968	1.281	1.281
1969	1.223	1.223
1970	1.124	1.124
1971	1.758	1.758
1972	1.492	1.492
1973	1.373	1.373
1974	1.329	1.329
1975	1.165	1.165
1976	1.433	1.433
1977	1.026	1.026
1978	1.805	1.805
1979	1.137	1.137
1980	1.038	1.038
1981	1.330	1.330
1982	1.535	1.535
1983	1.212	1.212
1984	1.125	1.125
1985	0.829	0.829
1986	1.364	1.364
1987	0.947	0.947
1988	1.444	1.444
1989	1.210	1.210
1990	1.588	1.588
1991	0.984	0.984
1992	0.794	0.794
1993	0.887	0.887
1994	1.144	1.144
1995	1.071	1.071
1996	1.314	1.314
1997	1.327	1.327
1998	0.816	0.816
1999	1.049	1.049
2000	0.966	0.966
2001	0.929	0.929
2002	1.378	1.378
2003	1.684	1.684
2004	1.556	1.556
2005	1.223	1.223
2006	1.249	1.249
2007	1.483	1.483
2008	0.753	0.753
2009	0.708	0.708

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	1.8052	1.8052
2	1.7580	1.7580
3	1.7264	1.7264
4	1.6836	1.6836
5	1.6237	1.6237
6	1.5879	1.5879
7	1.5804	1.5804

8	1.5560	1.5560
9	1.5347	1.5347
10	1.4922	1.4922
11	1.4826	1.4826
12	1.4444	1.4444
13	1.4327	1.4327
14	1.3782	1.3782
15	1.3731	1.3731
16	1.3641	1.3641
17	1.3565	1.3565
18	1.3498	1.3498
19	1.3340	1.3340
20	1.3296	1.3296
21	1.3289	1.3289
22	1.3270	1.3270
23	1.3183	1.3183
24	1.3143	1.3143
25	1.3055	1.3055
26	1.2808	1.2808
27	1.2510	1.2510
28	1.2491	1.2491
29	1.2380	1.2380
30	1.2234	1.2234
31	1.2232	1.2232
32	1.2119	1.2119
33	1.2101	1.2101
34	1.1648	1.1648
35	1.1438	1.1438
36	1.1370	1.1370
37	1.1250	1.1250
38	1.1243	1.1243
39	1.0709	1.0709
40	1.0486	1.0486
41	1.0380	1.0380
42	1.0264	1.0264
43	1.0208	1.0208
44	0.9842	0.9842
45	0.9662	0.9662
46	0.9466	0.9466
47	0.9289	0.9289
48	0.8871	0.8871
49	0.8296	0.8296
50	0.8286	0.8286
51	0.8159	0.8159
52	0.7938	0.7938
53	0.7531	0.7531
54	0.7076	0.7076

Stream Protection Duration

POC #11

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.6147 1002 1002 100 Pass

0.6271	925	925	100	Pass
0.6394	864	864	100	Pass
0.6518	801	801	100	Pass
0.6642	751	751	100	Pass
0.6765	700	700	100	Pass
0.6889	644	644	100	Pass
0.7013	589	589	100	Pass
0.7136	555	555	100	Pass
0.7260	525	525	100	Pass
0.7383	490	490	100	Pass
0.7507	453	453	100	Pass
0.7631	421	421	100	Pass
0.7754	393	393	100	Pass
0.7878	366	366	100	Pass
0.8002	337	337	100	Pass
0.8125	318	318	100	Pass
0.8249	298	298	100	Pass
0.8373	279	279	100	Pass
0.8496	260	260	100	Pass
0.8620	248	248	100	Pass
0.8744	235	235	100	Pass
0.8867	224	224	100	Pass
0.8991	207	207	100	Pass
0.9115	193	193	100	Pass
0.9238	189	189	100	Pass
0.9362	177	177	100	Pass
0.9485	170	170	100	Pass
0.9609	163	163	100	Pass
0.9733	156	156	100	Pass
0.9856	148	148	100	Pass
0.9980	137	137	100	Pass
1.0104	133	133	100	Pass
1.0227	126	126	100	Pass
1.0351	110	110	100	Pass
1.0475	102	102	100	Pass
1.0598	98	98	100	Pass
1.0722	95	95	100	Pass
1.0846	91	91	100	Pass
1.0969	89	89	100	Pass
1.1093	88	88	100	Pass
1.1217	83	83	100	Pass
1.1340	80	80	100	Pass
1.1464	74	74	100	Pass
1.1588	71	71	100	Pass
1.1711	67	67	100	Pass
1.1835	64	64	100	Pass
1.1958	62	62	100	Pass
1.2082	55	55	100	Pass
1.2206	52	52	100	Pass
1.2329	49	49	100	Pass
1.2453	47	47	100	Pass
1.2577	44	44	100	Pass
1.2700	43	43	100	Pass
1.2824	42	42	100	Pass
1.2948	42	42	100	Pass
1.3071	40	40	100	Pass
1.3195	37	37	100	Pass

1.3319	32	32	100	Pass
1.3442	31	31	100	Pass
1.3566	29	29	100	Pass
1.3690	26	26	100	Pass
1.3813	22	22	100	Pass
1.3937	22	22	100	Pass
1.4060	22	22	100	Pass
1.4184	22	22	100	Pass
1.4308	20	20	100	Pass
1.4431	19	19	100	Pass
1.4555	17	17	100	Pass
1.4679	16	16	100	Pass
1.4802	15	15	100	Pass
1.4926	14	14	100	Pass
1.5050	12	12	100	Pass
1.5173	11	11	100	Pass
1.5297	11	11	100	Pass
1.5421	10	10	100	Pass
1.5544	10	10	100	Pass
1.5668	9	9	100	Pass
1.5792	9	9	100	Pass
1.5915	7	7	100	Pass
1.6039	6	6	100	Pass
1.6163	6	6	100	Pass
1.6286	5	5	100	Pass
1.6410	5	5	100	Pass
1.6533	5	5	100	Pass
1.6657	4	4	100	Pass
1.6781	4	4	100	Pass
1.6904	3	3	100	Pass
1.7028	3	3	100	Pass
1.7152	3	3	100	Pass
1.7275	2	2	100	Pass
1.7399	2	2	100	Pass
1.7523	2	2	100	Pass
1.7646	1	1	100	Pass
1.7770	1	1	100	Pass
1.7894	1	1	100	Pass
1.8017	1	1	100	Pass
1.8141	0	0	100	Pass
1.8265	0	0	0	Pass
1.8388	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #11
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 11
Average Annual Volume (acft)
Month Predevel Mitigated Percent Pass/Fail

Jan	78.6420	78.6420	100.0	Pass
Feb	60.3204	60.3204	100.0	Pass
Mar	53.6742	53.6742	100.0	Pass
Apr	30.0455	30.0455	100.0	Pass
May	16.1360	16.1360	100.0	Pass
Jun	10.6908	10.6908	100.0	Pass
Jul	5.2599	5.2599	100.0	Pass
Aug	7.7815	7.7815	100.0	Pass
Sep	17.7756	17.7756	100.0	Pass
Oct	43.5824	43.5824	100.0	Pass
Nov	74.4456	74.4456	100.0	Pass
Dec	75.8473	75.8473	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	2.5188	2.5188	100.0	Pass
2	1.9940	1.9940	100.0	Pass
3	2.5235	2.5235	100.0	Pass
4	2.9518	2.9518	100.0	Pass
5	2.1682	2.1682	100.0	Pass
6	3.2255	3.2255	100.0	Pass
7	2.5213	2.5213	100.0	Pass
8	2.5283	2.5283	100.0	Pass
9	2.6877	2.6877	100.0	Pass
10	2.6213	2.6213	100.0	Pass
11	3.1970	3.1970	100.0	Pass
12	2.5182	2.5182	100.0	Pass
13	3.1618	3.1618	100.0	Pass
14	3.1530	3.1530	100.0	Pass
15	2.8830	2.8830	100.0	Pass
16	2.3783	2.3783	100.0	Pass
17	2.2747	2.2747	100.0	Pass
18	2.0117	2.0117	100.0	Pass
19	2.0018	2.0018	100.0	Pass
20	1.3315	1.3315	100.0	Pass
21	2.4983	2.4983	100.0	Pass
22	3.0336	3.0336	100.0	Pass
23	3.3998	3.3998	100.0	Pass
24	2.3381	2.3381	100.0	Pass
25	1.9896	1.9896	100.0	Pass
26	1.7965	1.7965	100.0	Pass
27	2.2515	2.2515	100.0	Pass
28	2.8530	2.8530	100.0	Pass
29	2.1960	2.1960	100.0	Pass
30	2.5886	2.5886	100.0	Pass
31	1.5750	1.5750	100.0	Pass
Feb1	1.7823	1.7823	100.0	Pass
2	1.6273	1.6273	100.0	Pass
3	1.4731	1.4731	100.0	Pass
4	1.3638	1.3638	100.0	Pass
5	2.4859	2.4859	100.0	Pass
6	1.2803	1.2803	100.0	Pass
7	1.8360	1.8360	100.0	Pass
8	1.4076	1.4076	100.0	Pass
9	1.6820	1.6820	100.0	Pass
10	2.2290	2.2290	100.0	Pass
11	2.9356	2.9356	100.0	Pass
12	2.3206	2.3206	100.0	Pass

13	2.4768	2.4768	100.0	Pass
14	3.4529	3.4529	100.0	Pass
15	2.5407	2.5407	100.0	Pass
16	3.3003	3.3003	100.0	Pass
17	2.9181	2.9181	100.0	Pass
18	2.3157	2.3157	100.0	Pass
19	2.0152	2.0152	100.0	Pass
20	1.9399	1.9399	100.0	Pass
21	1.5929	1.5929	100.0	Pass
22	2.3102	2.3102	100.0	Pass
23	2.2008	2.2008	100.0	Pass
24	2.4197	2.4197	100.0	Pass
25	2.1744	2.1744	100.0	Pass
26	2.1330	2.1330	100.0	Pass
27	1.8803	1.8803	100.0	Pass
28	2.3605	2.3605	100.0	Pass
29	1.8093	1.8093	100.0	Pass
Mar1	1.7838	1.7838	100.0	Pass
2	1.4667	1.4667	100.0	Pass
3	2.0498	2.0498	100.0	Pass
4	2.1484	2.1484	100.0	Pass
5	1.6942	1.6942	100.0	Pass
6	2.1383	2.1383	100.0	Pass
7	2.1015	2.1015	100.0	Pass
8	2.0349	2.0349	100.0	Pass
9	2.0434	2.0434	100.0	Pass
10	1.7813	1.7813	100.0	Pass
11	1.9297	1.9297	100.0	Pass
12	1.7146	1.7146	100.0	Pass
13	2.0707	2.0707	100.0	Pass
14	1.6505	1.6505	100.0	Pass
15	1.3505	1.3505	100.0	Pass
16	1.2986	1.2986	100.0	Pass
17	1.7523	1.7523	100.0	Pass
18	1.0837	1.0837	100.0	Pass
19	1.6066	1.6066	100.0	Pass
20	1.2993	1.2993	100.0	Pass
21	2.1716	2.1716	100.0	Pass
22	2.4376	2.4376	100.0	Pass
23	2.0226	2.0226	100.0	Pass
24	1.3124	1.3124	100.0	Pass
25	1.9956	1.9956	100.0	Pass
26	1.4579	1.4579	100.0	Pass
27	1.3990	1.3990	100.0	Pass
28	1.5599	1.5599	100.0	Pass
29	1.4345	1.4345	100.0	Pass
30	1.0803	1.0803	100.0	Pass
31	0.8751	0.8751	100.0	Pass
Apr1	0.9287	0.9287	100.0	Pass
2	1.0417	1.0417	100.0	Pass
3	1.4304	1.4304	100.0	Pass
4	1.2961	1.2961	100.0	Pass
5	1.3955	1.3955	100.0	Pass
6	0.7617	0.7617	100.0	Pass
7	1.2448	1.2448	100.0	Pass
8	1.2522	1.2522	100.0	Pass
9	1.1185	1.1185	100.0	Pass

10	1.1020	1.1020	100.0	Pass
11	1.5102	1.5102	100.0	Pass
12	1.2983	1.2983	100.0	Pass
13	1.3569	1.3569	100.0	Pass
14	1.1600	1.1600	100.0	Pass
15	1.2362	1.2362	100.0	Pass
16	0.7021	0.7021	100.0	Pass
17	0.9509	0.9509	100.0	Pass
18	1.0902	1.0902	100.0	Pass
19	0.5943	0.5943	100.0	Pass
20	0.5764	0.5764	100.0	Pass
21	0.9605	0.9605	100.0	Pass
22	0.8099	0.8099	100.0	Pass
23	0.7075	0.7075	100.0	Pass
24	0.5704	0.5704	100.0	Pass
25	0.6836	0.6836	100.0	Pass
26	1.1377	1.1377	100.0	Pass
27	0.8855	0.8855	100.0	Pass
28	0.9186	0.9186	100.0	Pass
29	0.4528	0.4528	100.0	Pass
30	0.6030	0.6030	100.0	Pass
May1	0.9308	0.9308	100.0	Pass
2	0.6741	0.6741	100.0	Pass
3	0.7316	0.7316	100.0	Pass
4	0.5706	0.5706	100.0	Pass
5	0.5503	0.5503	100.0	Pass
6	0.4671	0.4671	100.0	Pass
7	0.6154	0.6154	100.0	Pass
8	0.3804	0.3804	100.0	Pass
9	0.5318	0.5318	100.0	Pass
10	0.4319	0.4319	100.0	Pass
11	0.4068	0.4068	100.0	Pass
12	0.5719	0.5719	100.0	Pass
13	0.6140	0.6140	100.0	Pass
14	0.5984	0.5984	100.0	Pass
15	0.4040	0.4040	100.0	Pass
16	0.5248	0.5248	100.0	Pass
17	0.4277	0.4277	100.0	Pass
18	0.6918	0.6918	100.0	Pass
19	0.3685	0.3685	100.0	Pass
20	0.3603	0.3603	100.0	Pass
21	0.3718	0.3718	100.0	Pass
22	0.4456	0.4456	100.0	Pass
23	0.3923	0.3923	100.0	Pass
24	0.4140	0.4140	100.0	Pass
25	0.3475	0.3475	100.0	Pass
26	0.6007	0.6007	100.0	Pass
27	0.4706	0.4706	100.0	Pass
28	0.5066	0.5066	100.0	Pass
29	0.6873	0.6873	100.0	Pass
30	0.4465	0.4465	100.0	Pass
31	0.4866	0.4866	100.0	Pass
Jun1	0.3686	0.3686	100.0	Pass
2	0.6022	0.6022	100.0	Pass
3	0.5656	0.5656	100.0	Pass
4	0.4198	0.4198	100.0	Pass
5	0.6851	0.6851	100.0	Pass

6	0.2608	0.2608	100.0	Pass
7	0.3962	0.3962	100.0	Pass
8	0.5647	0.5647	100.0	Pass
9	0.4264	0.4264	100.0	Pass
10	0.4068	0.4068	100.0	Pass
11	0.2943	0.2943	100.0	Pass
12	0.3611	0.3611	100.0	Pass
13	0.5693	0.5693	100.0	Pass
14	0.2355	0.2355	100.0	Pass
15	0.4675	0.4675	100.0	Pass
16	0.2056	0.2056	100.0	Pass
17	0.2872	0.2872	100.0	Pass
18	0.1965	0.1965	100.0	Pass
19	0.2358	0.2358	100.0	Pass
20	0.2608	0.2608	100.0	Pass
21	0.2489	0.2489	100.0	Pass
22	0.1422	0.1422	100.0	Pass
23	0.7103	0.7103	100.0	Pass
24	0.1885	0.1885	100.0	Pass
25	0.3197	0.3197	100.0	Pass
26	0.1938	0.1938	100.0	Pass
27	0.1767	0.1767	100.0	Pass
28	0.1813	0.1813	100.0	Pass
29	0.2344	0.2344	100.0	Pass
30	0.4984	0.4984	100.0	Pass
Jul11	0.1296	0.1296	100.0	Pass
2	0.1120	0.1120	100.0	Pass
3	0.1229	0.1229	100.0	Pass
4	0.2923	0.2923	100.0	Pass
5	0.2153	0.2153	100.0	Pass
6	0.1654	0.1654	100.0	Pass
7	0.3141	0.3141	100.0	Pass
8	0.1809	0.1809	100.0	Pass
9	0.3715	0.3715	100.0	Pass
10	0.2427	0.2427	100.0	Pass
11	0.4861	0.4861	100.0	Pass
12	0.2439	0.2439	100.0	Pass
13	0.1869	0.1869	100.0	Pass
14	0.2819	0.2819	100.0	Pass
15	0.1192	0.1192	100.0	Pass
16	0.0747	0.0747	100.0	Pass
17	0.2405	0.2405	100.0	Pass
18	0.0827	0.0827	100.0	Pass
19	0.1071	0.1071	100.0	Pass
20	0.1784	0.1784	100.0	Pass
21	0.1419	0.1419	100.0	Pass
22	0.0133	0.0133	100.0	Pass
23	0.0416	0.0416	100.0	Pass
24	0.0462	0.0462	100.0	Pass
25	0.1047	0.1047	100.0	Pass
26	0.0465	0.0465	100.0	Pass
27	0.0653	0.0653	100.0	Pass
28	0.0559	0.0559	100.0	Pass
29	0.0365	0.0365	100.0	Pass
30	0.0621	0.0621	100.0	Pass
31	0.0692	0.0692	100.0	Pass
Aug1	0.2814	0.2814	100.0	Pass

2	0.1014	0.1014	100.0	Pass
3	0.0431	0.0431	100.0	Pass
4	0.0401	0.0401	100.0	Pass
5	0.3209	0.3209	100.0	Pass
6	0.2213	0.2213	100.0	Pass
7	0.0816	0.0816	100.0	Pass
8	0.0818	0.0818	100.0	Pass
9	0.0088	0.0088	100.0	Pass
10	0.0447	0.0447	100.0	Pass
11	0.2049	0.2049	100.0	Pass
12	0.1800	0.1800	100.0	Pass
13	0.2230	0.2230	100.0	Pass
14	0.1367	0.1367	100.0	Pass
15	0.1247	0.1247	100.0	Pass
16	0.1108	0.1108	100.0	Pass
17	0.2094	0.2094	100.0	Pass
18	0.3917	0.3917	100.0	Pass
19	0.1135	0.1135	100.0	Pass
20	0.3088	0.3088	100.0	Pass
21	0.2827	0.2827	100.0	Pass
22	0.5504	0.5504	100.0	Pass
23	0.5147	0.5147	100.0	Pass
24	0.4443	0.4443	100.0	Pass
25	0.1874	0.1874	100.0	Pass
26	0.5288	0.5288	100.0	Pass
27	0.5403	0.5403	100.0	Pass
28	0.5386	0.5386	100.0	Pass
29	0.3486	0.3486	100.0	Pass
30	0.5485	0.5485	100.0	Pass
31	0.8664	0.8664	100.0	Pass
Sep1	0.3448	0.3448	100.0	Pass
2	0.3477	0.3477	100.0	Pass
3	0.3782	0.3782	100.0	Pass
4	0.4720	0.4720	100.0	Pass
5	0.4025	0.4025	100.0	Pass
6	0.2830	0.2830	100.0	Pass
7	0.5342	0.5342	100.0	Pass
8	0.3435	0.3435	100.0	Pass
9	0.8693	0.8693	100.0	Pass
10	0.2089	0.2089	100.0	Pass
11	0.1798	0.1798	100.0	Pass
12	0.4687	0.4687	100.0	Pass
13	0.8574	0.8574	100.0	Pass
14	0.5547	0.5547	100.0	Pass
15	0.8375	0.8375	100.0	Pass
16	0.8853	0.8853	100.0	Pass
17	0.9627	0.9627	100.0	Pass
18	0.8652	0.8652	100.0	Pass
19	0.9275	0.9275	100.0	Pass
20	0.6794	0.6794	100.0	Pass
21	0.9357	0.9357	100.0	Pass
22	0.7493	0.7493	100.0	Pass
23	0.6000	0.6000	100.0	Pass
24	0.4300	0.4300	100.0	Pass
25	0.4565	0.4565	100.0	Pass
26	0.4570	0.4570	100.0	Pass
27	0.6217	0.6217	100.0	Pass

28	0.5435	0.5435	100.0	Pass
29	0.7152	0.7152	100.0	Pass
30	0.5186	0.5186	100.0	Pass
Oct1	0.3732	0.3732	100.0	Pass
2	0.9124	0.9124	100.0	Pass
3	0.8173	0.8173	100.0	Pass
4	1.0040	1.0040	100.0	Pass
5	1.0657	1.0657	100.0	Pass
6	1.1714	1.1714	100.0	Pass
7	1.5029	1.5029	100.0	Pass
8	1.2269	1.2269	100.0	Pass
9	0.9570	0.9570	100.0	Pass
10	0.7849	0.7849	100.0	Pass
11	1.4681	1.4681	100.0	Pass
12	0.9961	0.9961	100.0	Pass
13	1.3790	1.3790	100.0	Pass
14	0.7961	0.7961	100.0	Pass
15	0.9409	0.9409	100.0	Pass
16	1.2500	1.2500	100.0	Pass
17	1.1487	1.1487	100.0	Pass
18	1.8344	1.8344	100.0	Pass
19	2.2586	2.2586	100.0	Pass
20	1.9480	1.9480	100.0	Pass
21	2.3513	2.3513	100.0	Pass
22	1.3983	1.3983	100.0	Pass
23	2.2880	2.2880	100.0	Pass
24	2.0126	2.0126	100.0	Pass
25	1.8003	1.8003	100.0	Pass
26	2.1783	2.1783	100.0	Pass
27	1.8565	1.8565	100.0	Pass
28	1.7278	1.7278	100.0	Pass
29	1.4657	1.4657	100.0	Pass
30	2.1550	2.1550	100.0	Pass
31	1.8201	1.8201	100.0	Pass
Nov1	2.2902	2.2902	100.0	Pass
2	2.7569	2.7569	100.0	Pass
3	2.1597	2.1597	100.0	Pass
4	2.1828	2.1828	100.0	Pass
5	2.4157	2.4157	100.0	Pass
6	2.0195	2.0195	100.0	Pass
7	1.8321	1.8321	100.0	Pass
8	2.3549	2.3549	100.0	Pass
9	2.7815	2.7815	100.0	Pass
10	2.3878	2.3878	100.0	Pass
11	2.6659	2.6659	100.0	Pass
12	2.4663	2.4663	100.0	Pass
13	1.8583	1.8583	100.0	Pass
14	2.1712	2.1712	100.0	Pass
15	2.4285	2.4285	100.0	Pass
16	2.5421	2.5421	100.0	Pass
17	2.3233	2.3233	100.0	Pass
18	3.4066	3.4066	100.0	Pass
19	3.0451	3.0451	100.0	Pass
20	2.0236	2.0236	100.0	Pass
21	3.1742	3.1742	100.0	Pass
22	3.7454	3.7454	100.0	Pass
23	2.8605	2.8605	100.0	Pass

24	3.2727	3.2727	100.0	Pass
25	2.1671	2.1671	100.0	Pass
26	1.7572	1.7572	100.0	Pass
27	2.1341	2.1341	100.0	Pass
28	2.0388	2.0388	100.0	Pass
29	3.3678	3.3678	100.0	Pass
30	2.6960	2.6960	100.0	Pass
Dec1	2.9743	2.9743	100.0	Pass
2	2.8791	2.8791	100.0	Pass
3	1.8553	1.8553	100.0	Pass
4	2.0540	2.0540	100.0	Pass
5	1.7644	1.7644	100.0	Pass
6	1.5321	1.5321	100.0	Pass
7	2.2009	2.2009	100.0	Pass
8	2.7643	2.7643	100.0	Pass
9	2.7389	2.7389	100.0	Pass
10	2.9620	2.9620	100.0	Pass
11	2.1619	2.1619	100.0	Pass
12	2.3440	2.3440	100.0	Pass
13	3.4716	3.4716	100.0	Pass
14	2.4173	2.4173	100.0	Pass
15	3.1553	3.1553	100.0	Pass
16	2.1309	2.1309	100.0	Pass
17	2.5413	2.5413	100.0	Pass
18	2.0942	2.0942	100.0	Pass
19	2.4527	2.4527	100.0	Pass
20	2.4012	2.4012	100.0	Pass
21	2.6448	2.6448	100.0	Pass
22	2.5981	2.5981	100.0	Pass
23	2.8274	2.8274	100.0	Pass
24	3.1310	3.1310	100.0	Pass
25	2.7161	2.7161	100.0	Pass
26	2.4830	2.4830	100.0	Pass
27	1.6678	1.6678	100.0	Pass
28	2.6304	2.6304	100.0	Pass
29	1.7415	1.7415	100.0	Pass
30	1.8193	1.8193	100.0	Pass
31	3.0515	3.0515	100.0	Pass

Perlnd and Implnd Changes

No changes have been made.

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**WWHM2012
PROJECT REPORT**

General Model Information

Project Name: WWHM K-STREET REPORT
Site Name:
Site Address:
City:
Report Date: 8/17/2020
Gage: Montesano
Data Start: 1955/10/01
Data End: 2009/09/30
Timestep: 15 Minute
Precip Scale: 1.100
Version Date: 2019/09/13
Version: 4.2.17

POC Thresholds

Low Flow Threshold for POC1: 50 Percent of the 2 Year
High Flow Threshold for POC1: 50 Year

Low Flow Threshold for POC2: 50 Percent of the 2 Year
High Flow Threshold for POC2: 50 Year

Low Flow Threshold for POC3: 50 Percent of the 2 Year
High Flow Threshold for POC3: 50 Year

Low Flow Threshold for POC4: 50 Percent of the 2 Year
High Flow Threshold for POC4: 50 Year

Low Flow Threshold for POC5: 50 Percent of the 2 Year
High Flow Threshold for POC5: 50 Year

Low Flow Threshold for POC6: 50 Percent of the 2 Year
High Flow Threshold for POC6: 50 Year

Low Flow Threshold for POC7: 50 Percent of the 2 Year
High Flow Threshold for POC7: 50 Year

Low Flow Threshold for POC8: 50 Percent of the 2 Year
High Flow Threshold for POC8: 50 Year

Low Flow Threshold for POC9: 50 Percent of the 2 Year
High Flow Threshold for POC9: 50 Year

Low Flow Threshold for POC10:	50 Percent of the 2 Year
High Flow Threshold for POC10:	50 Year

Low Flow Threshold for POC11:	50 Percent of the 2 Year
High Flow Threshold for POC11:	50 Year

Low Flow Threshold for POC12:	50 Percent of the 2 Year
High Flow Threshold for POC12:	50 Year

Low Flow Threshold for POC13:	50 Percent of the 2 Year
High Flow Threshold for POC13:	50 Year

Low Flow Threshold for POC14:	50 Percent of the 2 Year
High Flow Threshold for POC14:	50 Year

Low Flow Threshold for POC15:	50 Percent of the 2 Year
High Flow Threshold for POC15:	50 Year

Low Flow Threshold for POC16:	50 Percent of the 2 Year
High Flow Threshold for POC16:	50 Year

Low Flow Threshold for POC17:	50 Percent of the 2 Year
High Flow Threshold for POC17:	50 Year

Low Flow Threshold for POC18:	50 Percent of the 2 Year
High Flow Threshold for POC18:	50 Year

Low Flow Threshold for POC19:	50 Percent of the 2 Year
High Flow Threshold for POC19:	50 Year

Low Flow Threshold for POC20:	50 Percent of the 2 Year
High Flow Threshold for POC20:	50 Year

Low Flow Threshold for POC21:	50 Percent of the 2 Year
High Flow Threshold for POC21:	50 Year

Low Flow Threshold for POC22:	50 Percent of the 2 Year
High Flow Threshold for POC22:	50 Year

Low Flow Threshold for POC23:	50 Percent of the 2 Year
High Flow Threshold for POC23:	50 Year

Landuse Basin Data
Predeveloped Land Use

OS-41

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.61
Pervious Total	2.61
Impervious Land Use ROADS FLAT	acre 2.4
Impervious Total	2.4
Basin Total	5.01

Element Flows To:		
Surface	Interflow	Groundwater

OS-38

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.88

Pervious Total 0.88

Impervious Land Use acre
ROADS FLAT 0.81

Impervious Total 0.81

Basin Total 1.69

Element Flows To:
Surface Interflow Groundwater

OS-25

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.21
Pervious Total	1.21
Impervious Land Use ROADS FLAT	acre 1.11
Impervious Total	1.11
Basin Total	2.32

Element Flows To:		
Surface	Interflow	Groundwater

OS-24

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.52

Pervious Total 0.52

Impervious Land Use acre
ROADS FLAT 0.47

Impervious Total 0.47

Basin Total 0.99

Element Flows To:
Surface Interflow Groundwater

OS-4A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.4
Pervious Total	0.4
Impervious Land Use ROADS FLAT	acre 0.36
Impervious Total	0.36
Basin Total	0.76

Element Flows To:		
Surface	Interflow	Groundwater

OS-31

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.65
Pervious Total	0.65
Impervious Land Use ROADS FLAT	acre 4.78
Impervious Total	4.78
Basin Total	5.43

Element Flows To:		
Surface	Interflow	Groundwater

OS-44

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.44

Pervious Total 0.44

Impervious Land Use acre
ROADS FLAT 3.27

Impervious Total 3.27

Basin Total 3.71

Element Flows To:
Surface Interflow Groundwater

OS-92

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.2
Pervious Total	0.2
Impervious Land Use ROADS FLAT	acre 0.18
Impervious Total	0.18
Basin Total	0.38

Element Flows To:		
Surface	Interflow	Groundwater

OS-89

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.78
Pervious Total	0.78
Impervious Land Use ROADS FLAT	acre 0.72
Impervious Total	0.72
Basin Total	1.5

Element Flows To:		
Surface	Interflow	Groundwater

OS-86

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.02

Pervious Total 2.02

Impervious Land Use acre
ROADS FLAT 1.86

Impervious Total 1.86

Basin Total 3.88

Element Flows To:
Surface Interflow Groundwater

OS-83

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 7.07
Pervious Total	7.07
Impervious Land Use ROADS FLAT	acre 6.53
Impervious Total	6.53
Basin Total	13.6

Element Flows To:		
Surface	Interflow	Groundwater

OS-81

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 6.15
Pervious Total	6.15
Impervious Land Use ROADS FLAT	acre 5.67
Impervious Total	5.67
Basin Total	11.82

Element Flows To:		
Surface	Interflow	Groundwater

OS-76

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 8.21
Pervious Total	8.21
Impervious Land Use ROADS FLAT	acre 8.4
Impervious Total	8.4
Basin Total	16.61

Element Flows To:		
Surface	Interflow	Groundwater

OS-70

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 10.03
Pervious Total	10.03
Impervious Land Use ROADS FLAT	acre 11.06
Impervious Total	11.06
Basin Total	21.09

Element Flows To:		
Surface	Interflow	Groundwater

OS-75

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.65

Pervious Total 0.65

Impervious Land Use acre
ROADS FLAT 4.75

Impervious Total 4.75

Basin Total 5.4

Element Flows To:
Surface Interflow Groundwater

OS-26

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.46
Pervious Total	0.46
Impervious Land Use ROADS FLAT	acre 3.44
Impervious Total	3.44
Basin Total	3.9

Element Flows To:		
Surface	Interflow	Groundwater

OS-16

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.33
Pervious Total	0.33
Impervious Land Use ROADS FLAT	acre 1.45
Impervious Total	1.45
Basin Total	1.78

Element Flows To:		
Surface	Interflow	Groundwater

OS-14

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
C, Lawn, Flat	1.15
C, Forest, Flat	2.28
Pervious Total	3.43
Impervious Land Use	acre
ROADS FLAT	4.15
Impervious Total	4.15
Basin Total	7.58

Element Flows To:		
Surface	Interflow	Groundwater

OS-5

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.52
Pervious Total	1.52
Impervious Land Use ROADS FLAT	acre 1.4
Impervious Total	1.4
Basin Total	2.92

Element Flows To:		
Surface	Interflow	Groundwater

OS-4

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.39
Pervious Total	2.39
Impervious Land Use ROADS FLAT	acre 2.21
Impervious Total	2.21
Basin Total	4.6

Element Flows To:		
Surface	Interflow	Groundwater

OS-3

Bypass: No

GroundWater: No

Pervious Land Use acre

C, Forest, Flat 2.26

C, Lawn, Flat 0.02

Pervious Total 2.28

Impervious Land Use acre

Impervious Total 0

Basin Total 2.28

Element Flows To:

Surface

Interflow

Groundwater

OS-2

Bypass:	No
GroundWater:	No
Pervious Land Use C, Forest, Flat	acre 0.36
Pervious Total	0.36
Impervious Land Use	acre
Impervious Total	0
Basin Total	0.36

Element Flows To:		
Surface	Interflow	Groundwater

OS-1

Bypass:	No
GroundWater:	No
Pervious Land Use C, Forest, Flat	acre 0.53
Pervious Total	0.53
Impervious Land Use	acre
Impervious Total	0
Basin Total	0.53

Element Flows To:		
Surface	Interflow	Groundwater

Mitigated Land Use

OS-41

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
C, Lawn, Flat	2.61
Pervious Total	2.61
Impervious Land Use	acre
ROADS FLAT	2.4
Impervious Total	2.4
Basin Total	5.01

Element Flows To:		
Surface	Interflow	Groundwater

OS-38

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.88

Pervious Total 0.88

Impervious Land Use acre
ROADS FLAT 0.81

Impervious Total 0.81

Basin Total 1.69

Element Flows To:
Surface Interflow Groundwater

OS-25

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.21
Pervious Total	1.21
Impervious Land Use ROADS FLAT	acre 1.11
Impervious Total	1.11
Basin Total	2.32

Element Flows To:		
Surface	Interflow	Groundwater

OS-24

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.52

Pervious Total 0.52

Impervious Land Use acre
ROADS FLAT 0.47

Impervious Total 0.47

Basin Total 0.99

Element Flows To:
Surface Interflow Groundwater

OS-4A

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.4
Pervious Total	0.4
Impervious Land Use ROADS FLAT	acre 0.36
Impervious Total	0.36
Basin Total	0.76

Element Flows To:		
Surface	Interflow	Groundwater

OS-31

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.65
Pervious Total	0.65
Impervious Land Use ROADS FLAT	acre 4.78
Impervious Total	4.78
Basin Total	5.43

Element Flows To:		
Surface	Interflow	Groundwater

OS-44

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.44
Pervious Total	0.44
Impervious Land Use ROADS FLAT	acre 3.27
Impervious Total	3.27
Basin Total	3.71

Element Flows To:		
Surface	Interflow	Groundwater

OS-92

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.2
Pervious Total	0.2
Impervious Land Use ROADS FLAT	acre 0.18
Impervious Total	0.18
Basin Total	0.38

Element Flows To:		
Surface	Interflow	Groundwater

OS-89

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.78
Pervious Total	0.78
Impervious Land Use ROADS FLAT	acre 0.72
Impervious Total	0.72
Basin Total	1.5

Element Flows To:		
Surface	Interflow	Groundwater

OS-86

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 2.02

Pervious Total 2.02

Impervious Land Use acre
ROADS FLAT 1.86

Impervious Total 1.86

Basin Total 3.88

Element Flows To:
Surface Interflow Groundwater

OS-83

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 7.07
Pervious Total	7.07
Impervious Land Use ROADS FLAT	acre 6.53
Impervious Total	6.53
Basin Total	13.6

Element Flows To:		
Surface	Interflow	Groundwater

OS-81

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 6.15
Pervious Total	6.15
Impervious Land Use ROADS FLAT	acre 5.67
Impervious Total	5.67
Basin Total	11.82

Element Flows To:		
Surface	Interflow	Groundwater

OS-76

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 8.21
Pervious Total	8.21
Impervious Land Use ROADS FLAT	acre 8.4
Impervious Total	8.4
Basin Total	16.61

Element Flows To:		
Surface	Interflow	Groundwater

OS-70

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 10.03
Pervious Total	10.03
Impervious Land Use ROADS FLAT	acre 11.06
Impervious Total	11.06
Basin Total	21.09

Element Flows To:		
Surface	Interflow	Groundwater

OS-75

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.65

Pervious Total 0.65

Impervious Land Use acre
ROADS FLAT 4.75

Impervious Total 4.75

Basin Total 5.4

Element Flows To:
Surface Interflow Groundwater

OS-26

Bypass: No

GroundWater: No

Pervious Land Use acre
C, Lawn, Flat 0.46

Pervious Total 0.46

Impervious Land Use acre
ROADS FLAT 3.44

Impervious Total 3.44

Basin Total 3.9

Element Flows To:
Surface Interflow Groundwater

OS-16

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 0.33
Pervious Total	0.33
Impervious Land Use ROADS FLAT	acre 1.45
Impervious Total	1.45
Basin Total	1.78

Element Flows To:		
Surface	Interflow	Groundwater

OS-14

Bypass:	No
GroundWater:	No
Pervious Land Use	acre
C, Forest, Flat	2.28
C, Lawn, Flat	1.15
Pervious Total	3.43
Impervious Land Use	acre
ROADS FLAT	4.15
Impervious Total	4.15
Basin Total	7.58

Element Flows To:		
Surface	Interflow	Groundwater

OS-5

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 1.52
Pervious Total	1.52
Impervious Land Use ROADS FLAT	acre 1.4
Impervious Total	1.4
Basin Total	2.92

Element Flows To:		
Surface	Interflow	Groundwater

OS-4

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 2.39
Pervious Total	2.39
Impervious Land Use ROADS FLAT	acre 2.21
Impervious Total	2.21
Basin Total	4.6

Element Flows To: Surface	Interflow	Groundwater
------------------------------	-----------	-------------

OS-3

Bypass: No

GroundWater: No

Pervious Land Use acre

C, Forest, Flat 2.26

C, Lawn, Flat 0.02

Pervious Total 2.28

Impervious Land Use acre

Impervious Total 0

Basin Total 2.28

Element Flows To:

Surface

Interflow

Groundwater

OS-2

Bypass:	No
GroundWater:	No
Pervious Land Use C, Forest, Flat	acre 0.36
Pervious Total	0.36
Impervious Land Use	acre
Impervious Total	0
Basin Total	0.36

Element Flows To:		
Surface	Interflow	Groundwater

OS-1

Bypass:	No
GroundWater:	No
Pervious Land Use C, Forest, Flat	acre 0.53
Pervious Total	0.53
Impervious Land Use	acre
Impervious Total	0
Basin Total	0.53

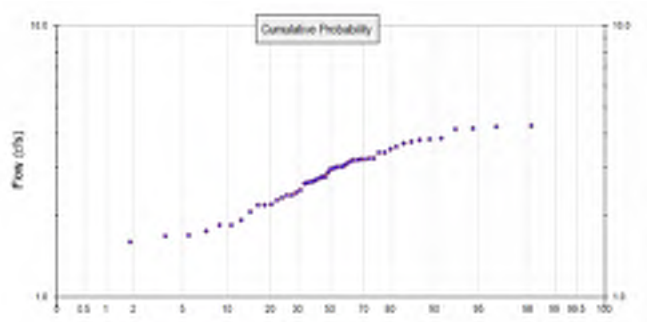
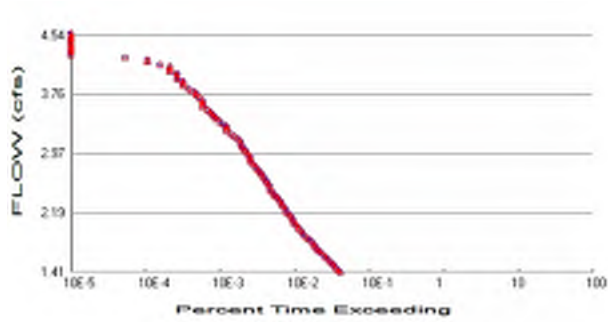
Element Flows To:		
Surface	Interflow	Groundwater

Routing Elements
Predeveloped Routing

Mitigated Routing

Analysis Results

POC 1



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #1

Total Pervious Area: 2.61
 Total Impervious Area: 2.4

Mitigated Landuse Totals for POC #1

Total Pervious Area: 2.61
 Total Impervious Area: 2.4

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #1

Return Period	Flow(cfs)
2 year	2.811557
5 year	3.482665
10 year	3.856963
25 year	4.269797
50 year	4.542249
100 year	4.790098

Flow Frequency Return Periods for Mitigated. POC #1

Return Period	Flow(cfs)
2 year	2.811557
5 year	3.482665
10 year	3.856963
25 year	4.269797
50 year	4.542249
100 year	4.790098

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #1

Year	Predeveloped	Mitigated
1956	3.232	3.232
1957	3.790	3.790
1958	2.755	2.755
1959	3.014	3.014
1960	3.191	3.191
1961	2.175	2.175
1962	4.238	4.238
1963	3.825	3.825
1964	3.083	3.083
1965	3.214	3.214

1966	3.245	3.245
1967	1.833	1.833
1968	3.041	3.041
1969	2.981	2.981
1970	2.419	2.419
1971	4.266	4.266
1972	3.691	3.691
1973	3.159	3.159
1974	3.242	3.242
1975	2.722	2.722
1976	3.413	3.413
1977	2.328	2.328
1978	4.185	4.185
1979	2.678	2.678
1980	2.365	2.365
1981	3.026	3.026
1982	3.507	3.507
1983	2.781	2.781
1984	2.655	2.655
1985	1.679	1.679
1986	3.208	3.208
1987	2.185	2.185
1988	3.416	3.416
1989	2.776	2.776
1990	3.851	3.851
1991	2.277	2.277
1992	1.691	1.691
1993	1.844	1.844
1994	2.633	2.633
1995	2.055	2.055
1996	2.619	2.619
1997	3.002	3.002
1998	1.749	1.749
1999	2.381	2.381
2000	2.201	2.201
2001	1.921	1.921
2002	2.472	2.472
2003	4.144	4.144
2004	3.739	3.739
2005	2.865	2.865
2006	2.949	2.949
2007	3.584	3.584
2008	1.594	1.594
2009	1.458	1.458

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	4.2656	4.2656
2	4.2385	4.2385
3	4.1848	4.1848
4	4.1444	4.1444
5	3.8514	3.8514
6	3.8254	3.8254
7	3.7898	3.7898
8	3.7390	3.7390
9	3.6908	3.6908
10	3.5843	3.5843

11	3.5067	3.5067
12	3.4163	3.4163
13	3.4128	3.4128
14	3.2448	3.2448
15	3.2424	3.2424
16	3.2317	3.2317
17	3.2138	3.2138
18	3.2079	3.2079
19	3.1912	3.1912
20	3.1592	3.1592
21	3.0832	3.0832
22	3.0407	3.0407
23	3.0261	3.0261
24	3.0145	3.0145
25	3.0019	3.0019
26	2.9812	2.9812
27	2.9493	2.9493
28	2.8650	2.8650
29	2.7808	2.7808
30	2.7763	2.7763
31	2.7546	2.7546
32	2.7216	2.7216
33	2.6781	2.6781
34	2.6550	2.6550
35	2.6325	2.6325
36	2.6191	2.6191
37	2.4721	2.4721
38	2.4192	2.4192
39	2.3813	2.3813
40	2.3654	2.3654
41	2.3281	2.3281
42	2.2774	2.2774
43	2.2009	2.2009
44	2.1851	2.1851
45	2.1750	2.1750
46	2.0545	2.0545
47	1.9207	1.9207
48	1.8444	1.8444
49	1.8329	1.8329
50	1.7487	1.7487
51	1.6908	1.6908
52	1.6793	1.6793
53	1.5939	1.5939
54	1.4583	1.4583

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.4058	769	769	100	Pass
1.4375	722	722	100	Pass
1.4691	670	670	100	Pass
1.5008	628	628	100	Pass
1.5325	584	584	100	Pass
1.5642	550	550	100	Pass
1.5959	511	511	100	Pass
1.6275	474	474	100	Pass
1.6592	430	430	100	Pass
1.6909	395	395	100	Pass
1.7226	375	375	100	Pass
1.7543	356	356	100	Pass
1.7860	335	335	100	Pass
1.8176	318	318	100	Pass
1.8493	291	291	100	Pass
1.8810	268	268	100	Pass
1.9127	247	247	100	Pass
1.9444	235	235	100	Pass
1.9760	216	216	100	Pass
2.0077	209	209	100	Pass
2.0394	197	197	100	Pass
2.0711	186	186	100	Pass
2.1028	178	178	100	Pass
2.1345	171	171	100	Pass
2.1661	163	163	100	Pass
2.1978	151	151	100	Pass
2.2295	145	145	100	Pass
2.2612	139	139	100	Pass
2.2929	130	130	100	Pass
2.3245	126	126	100	Pass
2.3562	119	119	100	Pass
2.3879	112	112	100	Pass
2.4196	103	103	100	Pass
2.4513	98	98	100	Pass
2.4830	93	93	100	Pass
2.5146	89	89	100	Pass
2.5463	88	88	100	Pass
2.5780	83	83	100	Pass
2.6097	79	79	100	Pass
2.6414	76	76	100	Pass
2.6730	73	73	100	Pass
2.7047	68	68	100	Pass
2.7364	64	64	100	Pass
2.7681	61	61	100	Pass
2.7998	57	57	100	Pass
2.8314	53	53	100	Pass
2.8631	49	49	100	Pass
2.8948	48	48	100	Pass
2.9265	48	48	100	Pass
2.9582	46	46	100	Pass
2.9899	43	43	100	Pass
3.0215	41	41	100	Pass
3.0532	38	38	100	Pass

3.0849	37	37	100	Pass
3.1166	36	36	100	Pass
3.1483	35	35	100	Pass
3.1799	32	32	100	Pass
3.2116	29	29	100	Pass
3.2433	26	26	100	Pass
3.2750	23	23	100	Pass
3.3067	23	23	100	Pass
3.3384	23	23	100	Pass
3.3700	21	21	100	Pass
3.4017	19	19	100	Pass
3.4334	17	17	100	Pass
3.4651	16	16	100	Pass
3.4968	15	15	100	Pass
3.5284	14	14	100	Pass
3.5601	13	13	100	Pass
3.5918	11	11	100	Pass
3.6235	11	11	100	Pass
3.6552	11	11	100	Pass
3.6868	11	11	100	Pass
3.7185	10	10	100	Pass
3.7502	9	9	100	Pass
3.7819	9	9	100	Pass
3.8136	8	8	100	Pass
3.8453	7	7	100	Pass
3.8769	6	6	100	Pass
3.9086	6	6	100	Pass
3.9403	6	6	100	Pass
3.9720	5	5	100	Pass
4.0037	5	5	100	Pass
4.0353	5	5	100	Pass
4.0670	4	4	100	Pass
4.0987	4	4	100	Pass
4.1304	4	4	100	Pass
4.1621	3	3	100	Pass
4.1938	2	2	100	Pass
4.2254	2	2	100	Pass
4.2571	1	1	100	Pass
4.2888	0	0	100	Pass
4.3205	0	0	0	Pass
4.3522	0	0	0	Pass
4.3838	0	0	0	Pass
4.4155	0	0	0	Pass
4.4472	0	0	0	Pass
4.4789	0	0	0	Pass
4.5106	0	0	0	Pass
4.5422	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #1

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

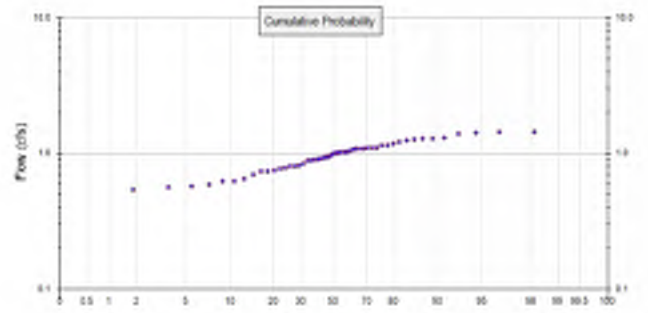
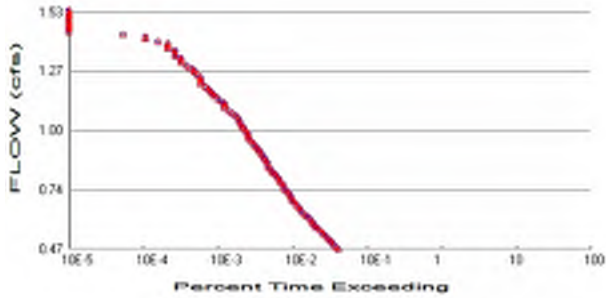
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 2



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #2

Total Pervious Area: 0.88
Total Impervious Area: 0.81

Mitigated Landuse Totals for POC #2

Total Pervious Area: 0.88
Total Impervious Area: 0.81

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #2

Return Period	Flow(cfs)
2 year	0.948547
5 year	1.174918
10 year	1.301169
25 year	1.440415
50 year	1.53231
100 year	1.615906

Flow Frequency Return Periods for Mitigated. POC #2

Return Period	Flow(cfs)
2 year	0.948547
5 year	1.174918
10 year	1.301169
25 year	1.440415
50 year	1.53231
100 year	1.615906

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #2

Year	Predeveloped	Mitigated
1956	1.090	1.090
1957	1.279	1.279
1958	0.929	0.929
1959	1.017	1.017
1960	1.077	1.077
1961	0.734	0.734
1962	1.430	1.430
1963	1.291	1.291
1964	1.040	1.040
1965	1.084	1.084
1966	1.095	1.095

1967	0.618	0.618
1968	1.026	1.026
1969	1.006	1.006
1970	0.816	0.816
1971	1.439	1.439
1972	1.245	1.245
1973	1.066	1.066
1974	1.094	1.094
1975	0.918	0.918
1976	1.151	1.151
1977	0.785	0.785
1978	1.412	1.412
1979	0.903	0.903
1980	0.798	0.798
1981	1.021	1.021
1982	1.183	1.183
1983	0.938	0.938
1984	0.896	0.896
1985	0.567	0.567
1986	1.082	1.082
1987	0.737	0.737
1988	1.153	1.153
1989	0.937	0.937
1990	1.299	1.299
1991	0.768	0.768
1992	0.570	0.570
1993	0.622	0.622
1994	0.888	0.888
1995	0.693	0.693
1996	0.884	0.884
1997	1.013	1.013
1998	0.590	0.590
1999	0.803	0.803
2000	0.743	0.743
2001	0.648	0.648
2002	0.834	0.834
2003	1.398	1.398
2004	1.261	1.261
2005	0.967	0.967
2006	0.995	0.995
2007	1.209	1.209
2008	0.538	0.538
2009	0.492	0.492

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	1.4390	1.4390
2	1.4299	1.4299
3	1.4118	1.4118
4	1.3981	1.3981
5	1.2993	1.2993
6	1.2905	1.2905
7	1.2786	1.2786
8	1.2614	1.2614
9	1.2451	1.2451
10	1.2092	1.2092
11	1.1831	1.1831

12	1.1525	1.1525
13	1.1513	1.1513
14	1.0946	1.0946
15	1.0938	1.0938
16	1.0902	1.0902
17	1.0842	1.0842
18	1.0822	1.0822
19	1.0765	1.0765
20	1.0658	1.0658
21	1.0402	1.0402
22	1.0258	1.0258
23	1.0209	1.0209
24	1.0170	1.0170
25	1.0128	1.0128
26	1.0057	1.0057
27	0.9950	0.9950
28	0.9666	0.9666
29	0.9382	0.9382
30	0.9367	0.9367
31	0.9293	0.9293
32	0.9182	0.9182
33	0.9035	0.9035
34	0.8957	0.8957
35	0.8881	0.8881
36	0.8838	0.8838
37	0.8343	0.8343
38	0.8162	0.8162
39	0.8034	0.8034
40	0.7980	0.7980
41	0.7855	0.7855
42	0.7683	0.7683
43	0.7425	0.7425
44	0.7372	0.7372
45	0.7337	0.7337
46	0.6933	0.6933
47	0.6481	0.6481
48	0.6223	0.6223
49	0.6184	0.6184
50	0.5900	0.5900
51	0.5705	0.5705
52	0.5666	0.5666
53	0.5378	0.5378
54	0.4920	0.4920

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4743	769	769	100	Pass
0.4850	725	725	100	Pass
0.4956	672	672	100	Pass
0.5063	629	629	100	Pass
0.5170	583	583	100	Pass
0.5277	551	551	100	Pass
0.5384	511	511	100	Pass
0.5491	473	473	100	Pass
0.5598	436	436	100	Pass
0.5705	395	395	100	Pass
0.5811	375	375	100	Pass
0.5918	357	357	100	Pass
0.6025	335	335	100	Pass
0.6132	318	318	100	Pass
0.6239	291	291	100	Pass
0.6346	269	269	100	Pass
0.6453	247	247	100	Pass
0.6560	236	236	100	Pass
0.6666	217	217	100	Pass
0.6773	209	209	100	Pass
0.6880	196	196	100	Pass
0.6987	186	186	100	Pass
0.7094	178	178	100	Pass
0.7201	171	171	100	Pass
0.7308	163	163	100	Pass
0.7415	151	151	100	Pass
0.7521	145	145	100	Pass
0.7628	140	140	100	Pass
0.7735	130	130	100	Pass
0.7842	126	126	100	Pass
0.7949	120	120	100	Pass
0.8056	112	112	100	Pass
0.8163	103	103	100	Pass
0.8270	98	98	100	Pass
0.8376	93	93	100	Pass
0.8483	89	89	100	Pass
0.8590	88	88	100	Pass
0.8697	83	83	100	Pass
0.8804	79	79	100	Pass
0.8911	76	76	100	Pass
0.9018	73	73	100	Pass
0.9125	68	68	100	Pass
0.9231	64	64	100	Pass
0.9338	61	61	100	Pass
0.9445	57	57	100	Pass
0.9552	53	53	100	Pass
0.9659	49	49	100	Pass
0.9766	48	48	100	Pass
0.9873	48	48	100	Pass
0.9979	46	46	100	Pass
1.0086	43	43	100	Pass
1.0193	41	41	100	Pass
1.0300	38	38	100	Pass

1.0407	38	38	100	Pass
1.0514	36	36	100	Pass
1.0621	35	35	100	Pass
1.0728	32	32	100	Pass
1.0834	29	29	100	Pass
1.0941	26	26	100	Pass
1.1048	23	23	100	Pass
1.1155	23	23	100	Pass
1.1262	23	23	100	Pass
1.1369	21	21	100	Pass
1.1476	19	19	100	Pass
1.1583	17	17	100	Pass
1.1689	16	16	100	Pass
1.1796	15	15	100	Pass
1.1903	14	14	100	Pass
1.2010	13	13	100	Pass
1.2117	11	11	100	Pass
1.2224	11	11	100	Pass
1.2331	11	11	100	Pass
1.2438	11	11	100	Pass
1.2544	10	10	100	Pass
1.2651	9	9	100	Pass
1.2758	9	9	100	Pass
1.2865	8	8	100	Pass
1.2972	7	7	100	Pass
1.3079	6	6	100	Pass
1.3186	6	6	100	Pass
1.3293	6	6	100	Pass
1.3399	5	5	100	Pass
1.3506	5	5	100	Pass
1.3613	5	5	100	Pass
1.3720	4	4	100	Pass
1.3827	4	4	100	Pass
1.3934	4	4	100	Pass
1.4041	3	3	100	Pass
1.4148	2	2	100	Pass
1.4254	2	2	100	Pass
1.4361	1	1	100	Pass
1.4468	0	0	100	Pass
1.4575	0	0	0	Pass
1.4682	0	0	0	Pass
1.4789	0	0	0	Pass
1.4896	0	0	0	Pass
1.5002	0	0	0	Pass
1.5109	0	0	0	Pass
1.5216	0	0	0	Pass
1.5323	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #2

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

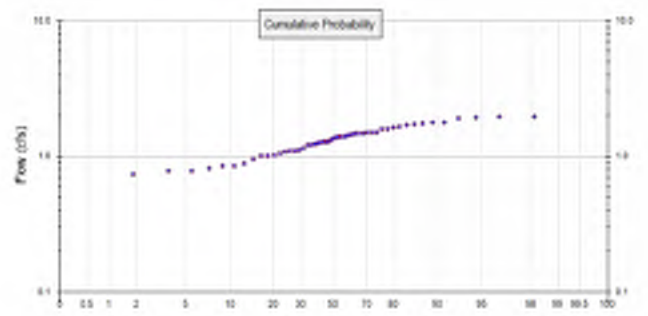
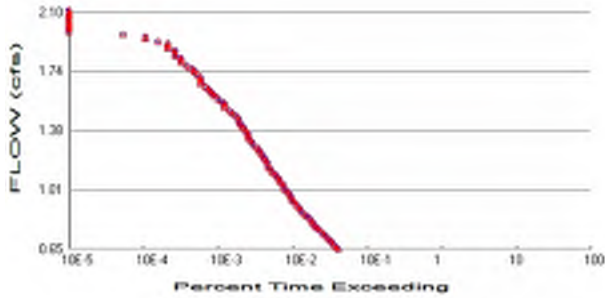
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 3



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #3

Total Pervious Area: 1.21
Total Impervious Area: 1.11

Mitigated Landuse Totals for POC #3

Total Pervious Area: 1.21
Total Impervious Area: 1.11

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #3

Return Period	Flow(cfs)
2 year	1.301506
5 year	1.612315
10 year	1.785674
25 year	1.97689
50 year	2.103088
100 year	2.217893

Flow Frequency Return Periods for Mitigated. POC #3

Return Period	Flow(cfs)
2 year	1.301506
5 year	1.612315
10 year	1.785674
25 year	1.97689
50 year	2.103088
100 year	2.217893

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #3

Year	Predeveloped	Mitigated
1956	1.496	1.496
1957	1.754	1.754
1958	1.275	1.275
1959	1.396	1.396
1960	1.477	1.477
1961	1.007	1.007
1962	1.962	1.962
1963	1.771	1.771
1964	1.427	1.427
1965	1.488	1.488
1966	1.502	1.502

1967	0.848	0.848
1968	1.408	1.408
1969	1.380	1.380
1970	1.120	1.120
1971	1.975	1.975
1972	1.709	1.709
1973	1.462	1.462
1974	1.501	1.501
1975	1.260	1.260
1976	1.580	1.580
1977	1.078	1.078
1978	1.937	1.937
1979	1.240	1.240
1980	1.095	1.095
1981	1.401	1.401
1982	1.623	1.623
1983	1.287	1.287
1984	1.229	1.229
1985	0.777	0.777
1986	1.485	1.485
1987	1.012	1.012
1988	1.582	1.582
1989	1.285	1.285
1990	1.783	1.783
1991	1.054	1.054
1992	0.783	0.783
1993	0.854	0.854
1994	1.219	1.219
1995	0.951	0.951
1996	1.212	1.212
1997	1.390	1.390
1998	0.809	0.809
1999	1.102	1.102
2000	1.019	1.019
2001	0.889	0.889
2002	1.144	1.144
2003	1.919	1.919
2004	1.731	1.731
2005	1.326	1.326
2006	1.365	1.365
2007	1.659	1.659
2008	0.738	0.738
2009	0.675	0.675

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	1.9749	1.9749
2	1.9624	1.9624
3	1.9373	1.9373
4	1.9188	1.9188
5	1.7831	1.7831
6	1.7711	1.7711
7	1.7544	1.7544
8	1.7310	1.7310
9	1.7088	1.7088
10	1.6595	1.6595
11	1.6233	1.6233

12	1.5816	1.5816
13	1.5800	1.5800
14	1.5023	1.5023
15	1.5012	1.5012
16	1.4962	1.4962
17	1.4878	1.4878
18	1.4851	1.4851
19	1.4775	1.4775
20	1.4625	1.4625
21	1.4272	1.4272
22	1.4077	1.4077
23	1.4008	1.4008
24	1.3956	1.3956
25	1.3896	1.3896
26	1.3802	1.3802
27	1.3654	1.3654
28	1.3263	1.3263
29	1.2873	1.2873
30	1.2852	1.2852
31	1.2750	1.2750
32	1.2599	1.2599
33	1.2398	1.2398
34	1.2291	1.2291
35	1.2186	1.2186
36	1.2120	1.2120
37	1.1436	1.1436
38	1.1197	1.1197
39	1.1023	1.1023
40	1.0950	1.0950
41	1.0777	1.0777
42	1.0543	1.0543
43	1.0188	1.0188
44	1.0115	1.0115
45	1.0069	1.0069
46	0.9506	0.9506
47	0.8889	0.8889
48	0.8536	0.8536
49	0.8484	0.8484
50	0.8093	0.8093
51	0.7825	0.7825
52	0.7771	0.7771
53	0.7377	0.7377
54	0.6749	0.6749

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.6508	769	769	100	Pass
0.6654	722	722	100	Pass
0.6801	670	670	100	Pass
0.6948	629	629	100	Pass
0.7094	585	585	100	Pass
0.7241	550	550	100	Pass
0.7388	511	511	100	Pass
0.7534	474	474	100	Pass
0.7681	430	430	100	Pass
0.7828	395	395	100	Pass
0.7975	375	375	100	Pass
0.8121	355	355	100	Pass
0.8268	335	335	100	Pass
0.8415	318	318	100	Pass
0.8561	290	290	100	Pass
0.8708	269	269	100	Pass
0.8855	248	248	100	Pass
0.9001	235	235	100	Pass
0.9148	217	217	100	Pass
0.9295	209	209	100	Pass
0.9442	197	197	100	Pass
0.9588	186	186	100	Pass
0.9735	178	178	100	Pass
0.9882	171	171	100	Pass
1.0028	163	163	100	Pass
1.0175	151	151	100	Pass
1.0322	145	145	100	Pass
1.0468	140	140	100	Pass
1.0615	130	130	100	Pass
1.0762	126	126	100	Pass
1.0909	120	120	100	Pass
1.1055	112	112	100	Pass
1.1202	102	102	100	Pass
1.1349	98	98	100	Pass
1.1495	93	93	100	Pass
1.1642	89	89	100	Pass
1.1789	88	88	100	Pass
1.1935	83	83	100	Pass
1.2082	79	79	100	Pass
1.2229	76	76	100	Pass
1.2376	73	73	100	Pass
1.2522	68	68	100	Pass
1.2669	65	65	100	Pass
1.2816	61	61	100	Pass
1.2962	56	56	100	Pass
1.3109	53	53	100	Pass
1.3256	49	49	100	Pass
1.3402	48	48	100	Pass
1.3549	48	48	100	Pass
1.3696	46	46	100	Pass
1.3843	43	43	100	Pass
1.3989	41	41	100	Pass
1.4136	38	38	100	Pass

1.4283	37	37	100	Pass
1.4429	36	36	100	Pass
1.4576	35	35	100	Pass
1.4723	32	32	100	Pass
1.4869	29	29	100	Pass
1.5016	27	27	100	Pass
1.5163	23	23	100	Pass
1.5310	23	23	100	Pass
1.5456	23	23	100	Pass
1.5603	21	21	100	Pass
1.5750	19	19	100	Pass
1.5896	17	17	100	Pass
1.6043	16	16	100	Pass
1.6190	15	15	100	Pass
1.6336	14	14	100	Pass
1.6483	13	13	100	Pass
1.6630	11	11	100	Pass
1.6777	11	11	100	Pass
1.6923	11	11	100	Pass
1.7070	11	11	100	Pass
1.7217	10	10	100	Pass
1.7363	9	9	100	Pass
1.7510	9	9	100	Pass
1.7657	8	8	100	Pass
1.7803	7	7	100	Pass
1.7950	6	6	100	Pass
1.8097	6	6	100	Pass
1.8244	6	6	100	Pass
1.8390	5	5	100	Pass
1.8537	5	5	100	Pass
1.8684	5	5	100	Pass
1.8830	4	4	100	Pass
1.8977	4	4	100	Pass
1.9124	4	4	100	Pass
1.9270	3	3	100	Pass
1.9417	2	2	100	Pass
1.9564	2	2	100	Pass
1.9711	1	1	100	Pass
1.9857	0	0	100	Pass
2.0004	0	0	0	Pass
2.0151	0	0	0	Pass
2.0297	0	0	0	Pass
2.0444	0	0	0	Pass
2.0591	0	0	0	Pass
2.0737	0	0	0	Pass
2.0884	0	0	0	Pass
2.1031	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #3

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

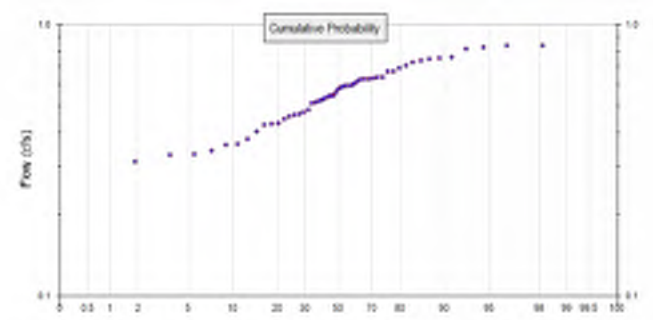
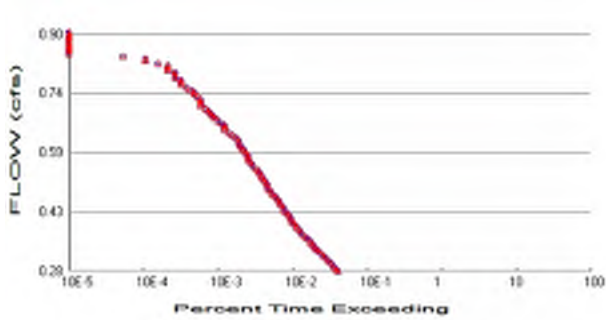
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 4



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #4

Total Pervious Area: 0.52
 Total Impervious Area: 0.47

Mitigated Landuse Totals for POC #4

Total Pervious Area: 0.52
 Total Impervious Area: 0.47

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #4

Return Period	Flow(cfs)
2 year	0.554182
5 year	0.68691
10 year	0.760972
25 year	0.842684
50 year	0.896623
100 year	0.9457

Flow Frequency Return Periods for Mitigated. POC #4

Return Period	Flow(cfs)
2 year	0.554182
5 year	0.68691
10 year	0.760972
25 year	0.842684
50 year	0.896623
100 year	0.9457

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #4

Year	Predeveloped	Mitigated
1956	0.638	0.638
1957	0.747	0.747
1958	0.543	0.543
1959	0.595	0.595
1960	0.630	0.630
1961	0.429	0.429
1962	0.836	0.836
1963	0.755	0.755
1964	0.608	0.608
1965	0.634	0.634
1966	0.640	0.640

1967	0.361	0.361
1968	0.600	0.600
1969	0.588	0.588
1970	0.476	0.476
1971	0.842	0.842
1972	0.728	0.728
1973	0.623	0.623
1974	0.640	0.640
1975	0.537	0.537
1976	0.673	0.673
1977	0.459	0.459
1978	0.825	0.825
1979	0.528	0.528
1980	0.466	0.466
1981	0.596	0.596
1982	0.691	0.691
1983	0.548	0.548
1984	0.524	0.524
1985	0.330	0.330
1986	0.633	0.633
1987	0.431	0.431
1988	0.674	0.674
1989	0.547	0.547
1990	0.760	0.760
1991	0.449	0.449
1992	0.333	0.333
1993	0.363	0.363
1994	0.519	0.519
1995	0.404	0.404
1996	0.515	0.515
1997	0.592	0.592
1998	0.344	0.344
1999	0.469	0.469
2000	0.434	0.434
2001	0.378	0.378
2002	0.485	0.485
2003	0.818	0.818
2004	0.738	0.738
2005	0.565	0.565
2006	0.582	0.582
2007	0.707	0.707
2008	0.314	0.314
2009	0.287	0.287

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	0.8416	0.8416
2	0.8364	0.8364
3	0.8250	0.8250
4	0.8179	0.8179
5	0.7599	0.7599
6	0.7547	0.7547
7	0.7472	0.7472
8	0.7376	0.7376
9	0.7284	0.7284
10	0.7072	0.7072
11	0.6912	0.6912

12	0.6738	0.6738
13	0.6731	0.6731
14	0.6402	0.6402
15	0.6398	0.6398
16	0.6377	0.6377
17	0.6338	0.6338
18	0.6326	0.6326
19	0.6297	0.6297
20	0.6228	0.6228
21	0.6077	0.6077
22	0.5997	0.5997
23	0.5964	0.5964
24	0.5947	0.5947
25	0.5916	0.5916
26	0.5882	0.5882
27	0.5816	0.5816
28	0.5649	0.5649
29	0.5481	0.5481
30	0.5473	0.5473
31	0.5427	0.5427
32	0.5366	0.5366
33	0.5281	0.5281
34	0.5236	0.5236
35	0.5189	0.5189
36	0.5149	0.5149
37	0.4849	0.4849
38	0.4763	0.4763
39	0.4694	0.4694
40	0.4664	0.4664
41	0.4588	0.4588
42	0.4490	0.4490
43	0.4338	0.4338
44	0.4308	0.4308
45	0.4291	0.4291
46	0.4036	0.4036
47	0.3779	0.3779
48	0.3629	0.3629
49	0.3610	0.3610
50	0.3443	0.3443
51	0.3328	0.3328
52	0.3303	0.3303
53	0.3137	0.3137
54	0.2869	0.2869

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2771	763	763	100	Pass
0.2833	721	721	100	Pass
0.2896	672	672	100	Pass
0.2959	631	631	100	Pass
0.3021	582	582	100	Pass
0.3084	550	550	100	Pass
0.3146	511	511	100	Pass
0.3209	475	475	100	Pass
0.3272	429	429	100	Pass
0.3334	394	394	100	Pass
0.3397	375	375	100	Pass
0.3459	356	356	100	Pass
0.3522	333	333	100	Pass
0.3584	318	318	100	Pass
0.3647	290	290	100	Pass
0.3710	268	268	100	Pass
0.3772	248	248	100	Pass
0.3835	235	235	100	Pass
0.3897	216	216	100	Pass
0.3960	209	209	100	Pass
0.4022	196	196	100	Pass
0.4085	186	186	100	Pass
0.4148	178	178	100	Pass
0.4210	171	171	100	Pass
0.4273	163	163	100	Pass
0.4335	151	151	100	Pass
0.4398	145	145	100	Pass
0.4461	139	139	100	Pass
0.4523	130	130	100	Pass
0.4586	126	126	100	Pass
0.4648	120	120	100	Pass
0.4711	112	112	100	Pass
0.4773	102	102	100	Pass
0.4836	98	98	100	Pass
0.4899	93	93	100	Pass
0.4961	89	89	100	Pass
0.5024	87	87	100	Pass
0.5086	83	83	100	Pass
0.5149	79	79	100	Pass
0.5211	74	74	100	Pass
0.5274	73	73	100	Pass
0.5337	68	68	100	Pass
0.5399	65	65	100	Pass
0.5462	61	61	100	Pass
0.5524	56	56	100	Pass
0.5587	53	53	100	Pass
0.5650	49	49	100	Pass
0.5712	48	48	100	Pass
0.5775	48	48	100	Pass
0.5837	46	46	100	Pass
0.5900	43	43	100	Pass
0.5962	41	41	100	Pass
0.6025	38	38	100	Pass

0.6088	37	37	100	Pass
0.6150	36	36	100	Pass
0.6213	35	35	100	Pass
0.6275	32	32	100	Pass
0.6338	29	29	100	Pass
0.6400	26	26	100	Pass
0.6463	23	23	100	Pass
0.6526	23	23	100	Pass
0.6588	23	23	100	Pass
0.6651	21	21	100	Pass
0.6713	19	19	100	Pass
0.6776	17	17	100	Pass
0.6839	16	16	100	Pass
0.6901	15	15	100	Pass
0.6964	14	14	100	Pass
0.7026	13	13	100	Pass
0.7089	11	11	100	Pass
0.7151	11	11	100	Pass
0.7214	11	11	100	Pass
0.7277	11	11	100	Pass
0.7339	10	10	100	Pass
0.7402	9	9	100	Pass
0.7464	9	9	100	Pass
0.7527	8	8	100	Pass
0.7589	7	7	100	Pass
0.7652	6	6	100	Pass
0.7715	6	6	100	Pass
0.7777	6	6	100	Pass
0.7840	5	5	100	Pass
0.7902	5	5	100	Pass
0.7965	5	5	100	Pass
0.8028	4	4	100	Pass
0.8090	4	4	100	Pass
0.8153	4	4	100	Pass
0.8215	3	3	100	Pass
0.8278	2	2	100	Pass
0.8340	2	2	100	Pass
0.8403	1	1	100	Pass
0.8466	0	0	100	Pass
0.8528	0	0	0	Pass
0.8591	0	0	0	Pass
0.8653	0	0	0	Pass
0.8716	0	0	0	Pass
0.8778	0	0	0	Pass
0.8841	0	0	0	Pass
0.8904	0	0	0	Pass
0.8966	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

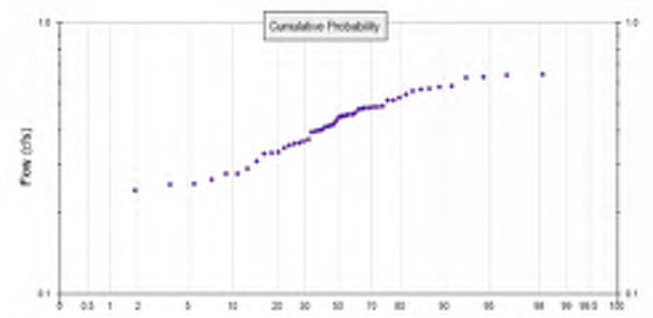
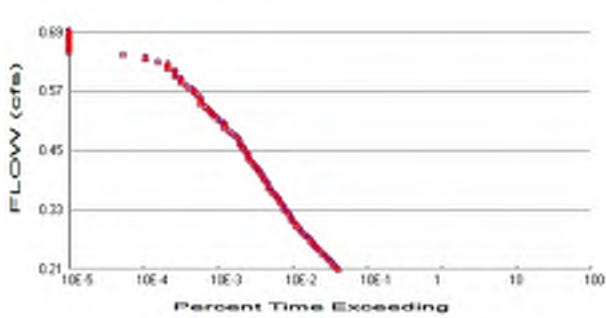
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 5



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #5

Total Pervious Area: 0.4
 Total Impervious Area: 0.36

Mitigated Landuse Totals for POC #5

Total Pervious Area: 0.4
 Total Impervious Area: 0.36

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #5

Return Period	Flow(cfs)
2 year	0.425168
5 year	0.527082
10 year	0.583956
25 year	0.64671
50 year	0.688138
100 year	0.725833

Flow Frequency Return Periods for Mitigated. POC #5

Return Period	Flow(cfs)
2 year	0.425168
5 year	0.527082
10 year	0.583956
25 year	0.64671
50 year	0.688138
100 year	0.725833

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #5

Year	Predeveloped	Mitigated
1956	0.489	0.489
1957	0.573	0.573
1958	0.416	0.416
1959	0.456	0.456
1960	0.483	0.483
1961	0.329	0.329
1962	0.642	0.642
1963	0.579	0.579
1964	0.466	0.466
1965	0.486	0.486
1966	0.491	0.491

1967	0.277	0.277
1968	0.460	0.460
1969	0.451	0.451
1970	0.365	0.365
1971	0.646	0.646
1972	0.559	0.559
1973	0.478	0.478
1974	0.491	0.491
1975	0.412	0.412
1976	0.517	0.517
1977	0.352	0.352
1978	0.633	0.633
1979	0.405	0.405
1980	0.358	0.358
1981	0.458	0.458
1982	0.530	0.530
1983	0.421	0.421
1984	0.402	0.402
1985	0.253	0.253
1986	0.485	0.485
1987	0.330	0.330
1988	0.517	0.517
1989	0.420	0.420
1990	0.583	0.583
1991	0.344	0.344
1992	0.255	0.255
1993	0.278	0.278
1994	0.398	0.398
1995	0.309	0.309
1996	0.395	0.395
1997	0.454	0.454
1998	0.264	0.264
1999	0.360	0.360
2000	0.333	0.333
2001	0.290	0.290
2002	0.372	0.372
2003	0.628	0.628
2004	0.566	0.566
2005	0.433	0.433
2006	0.446	0.446
2007	0.543	0.543
2008	0.241	0.241
2009	0.220	0.220

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	0.6458	0.6458
2	0.6419	0.6419
3	0.6330	0.6330
4	0.6277	0.6277
5	0.5831	0.5831
6	0.5792	0.5792
7	0.5733	0.5733
8	0.5660	0.5660
9	0.5590	0.5590
10	0.5427	0.5427
11	0.5303	0.5303

12	0.5170	0.5170
13	0.5165	0.5165
14	0.4913	0.4913
15	0.4910	0.4910
16	0.4894	0.4894
17	0.4863	0.4863
18	0.4854	0.4854
19	0.4832	0.4832
20	0.4778	0.4778
21	0.4662	0.4662
22	0.4602	0.4602
23	0.4576	0.4576
24	0.4563	0.4563
25	0.4538	0.4538
26	0.4514	0.4514
27	0.4463	0.4463
28	0.4335	0.4335
29	0.4205	0.4205
30	0.4199	0.4199
31	0.4163	0.4163
32	0.4117	0.4117
33	0.4052	0.4052
34	0.4018	0.4018
35	0.3981	0.3981
36	0.3948	0.3948
37	0.3716	0.3716
38	0.3653	0.3653
39	0.3601	0.3601
40	0.3579	0.3579
41	0.3520	0.3520
42	0.3445	0.3445
43	0.3328	0.3328
44	0.3305	0.3305
45	0.3292	0.3292
46	0.3094	0.3094
47	0.2898	0.2898
48	0.2783	0.2783
49	0.2770	0.2770
50	0.2640	0.2640
51	0.2553	0.2553
52	0.2532	0.2532
53	0.2406	0.2406
54	0.2200	0.2200

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2126	770	770	100	Pass
0.2174	721	721	100	Pass
0.2222	667	667	100	Pass
0.2270	636	636	100	Pass
0.2318	586	586	100	Pass
0.2366	550	550	100	Pass
0.2414	511	511	100	Pass
0.2462	470	470	100	Pass
0.2510	428	428	100	Pass
0.2558	399	399	100	Pass
0.2606	375	375	100	Pass
0.2654	355	355	100	Pass
0.2702	334	334	100	Pass
0.2750	317	317	100	Pass
0.2798	290	290	100	Pass
0.2846	268	268	100	Pass
0.2894	248	248	100	Pass
0.2942	235	235	100	Pass
0.2990	213	213	100	Pass
0.3039	209	209	100	Pass
0.3087	196	196	100	Pass
0.3135	186	186	100	Pass
0.3183	177	177	100	Pass
0.3231	171	171	100	Pass
0.3279	163	163	100	Pass
0.3327	151	151	100	Pass
0.3375	145	145	100	Pass
0.3423	139	139	100	Pass
0.3471	129	129	100	Pass
0.3519	126	126	100	Pass
0.3567	120	120	100	Pass
0.3615	112	112	100	Pass
0.3663	102	102	100	Pass
0.3711	98	98	100	Pass
0.3759	93	93	100	Pass
0.3807	90	90	100	Pass
0.3855	88	88	100	Pass
0.3903	83	83	100	Pass
0.3951	78	78	100	Pass
0.3999	76	76	100	Pass
0.4047	73	73	100	Pass
0.4095	68	68	100	Pass
0.4143	64	64	100	Pass
0.4191	61	61	100	Pass
0.4239	57	57	100	Pass
0.4287	53	53	100	Pass
0.4335	49	49	100	Pass
0.4384	48	48	100	Pass
0.4432	48	48	100	Pass
0.4480	46	46	100	Pass
0.4528	43	43	100	Pass
0.4576	41	41	100	Pass
0.4624	38	38	100	Pass

0.4672	37	37	100	Pass
0.4720	37	37	100	Pass
0.4768	35	35	100	Pass
0.4816	32	32	100	Pass
0.4864	29	29	100	Pass
0.4912	26	26	100	Pass
0.4960	23	23	100	Pass
0.5008	23	23	100	Pass
0.5056	23	23	100	Pass
0.5104	21	21	100	Pass
0.5152	19	19	100	Pass
0.5200	17	17	100	Pass
0.5248	16	16	100	Pass
0.5296	15	15	100	Pass
0.5344	14	14	100	Pass
0.5392	13	13	100	Pass
0.5440	11	11	100	Pass
0.5488	11	11	100	Pass
0.5536	11	11	100	Pass
0.5584	11	11	100	Pass
0.5632	10	10	100	Pass
0.5680	9	9	100	Pass
0.5729	9	9	100	Pass
0.5777	8	8	100	Pass
0.5825	7	7	100	Pass
0.5873	6	6	100	Pass
0.5921	6	6	100	Pass
0.5969	6	6	100	Pass
0.6017	5	5	100	Pass
0.6065	5	5	100	Pass
0.6113	5	5	100	Pass
0.6161	4	4	100	Pass
0.6209	4	4	100	Pass
0.6257	4	4	100	Pass
0.6305	3	3	100	Pass
0.6353	2	2	100	Pass
0.6401	2	2	100	Pass
0.6449	1	1	100	Pass
0.6497	0	0	100	Pass
0.6545	0	0	0	Pass
0.6593	0	0	0	Pass
0.6641	0	0	0	Pass
0.6689	0	0	0	Pass
0.6737	0	0	0	Pass
0.6785	0	0	0	Pass
0.6833	0	0	0	Pass
0.6881	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #5

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

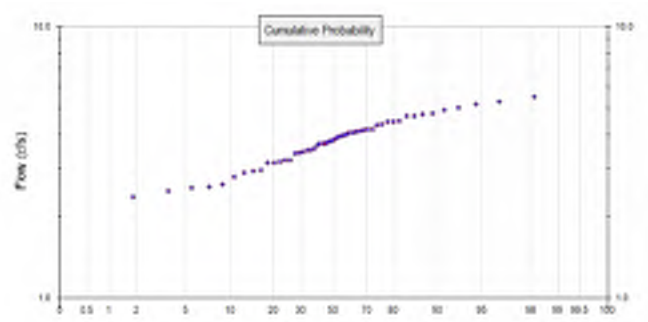
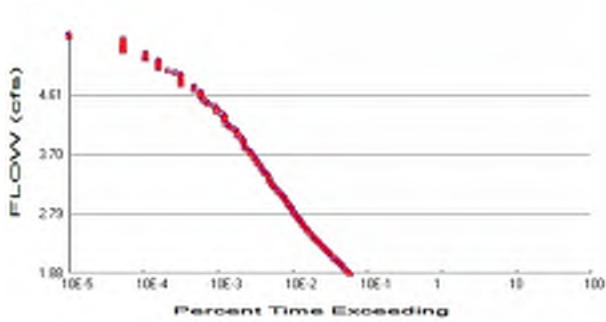
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 6



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #6

Total Pervious Area: 0.65
Total Impervious Area: 4.78

Mitigated Landuse Totals for POC #6

Total Pervious Area: 0.65
Total Impervious Area: 4.78

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #6

Return Period	Flow(cfs)
2 year	3.767603
5 year	4.467294
10 year	4.845342
25 year	5.253726
50 year	5.518804
100 year	5.757134

Flow Frequency Return Periods for Mitigated. POC #6

Return Period	Flow(cfs)
2 year	3.767603
5 year	4.467294
10 year	4.845342
25 year	5.253726
50 year	5.518804
100 year	5.757134

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #6

Year	Predeveloped	Mitigated
1956	3.949	3.949
1957	4.942	4.942
1958	3.824	3.824
1959	3.769	3.769
1960	3.914	3.914
1961	3.221	3.221
1962	5.169	5.169
1963	4.755	4.755
1964	4.137	4.137
1965	4.110	4.110
1966	4.006	4.006

1967	2.568	2.568
1968	3.878	3.878
1969	3.671	3.671
1970	3.507	3.507
1971	5.284	5.284
1972	4.456	4.456
1973	4.199	4.199
1974	3.987	3.987
1975	3.545	3.545
1976	4.333	4.333
1977	3.152	3.152
1978	5.507	5.507
1979	3.451	3.451
1980	3.186	3.186
1981	4.079	4.079
1982	4.703	4.703
1983	3.709	3.709
1984	3.413	3.413
1985	2.628	2.628
1986	4.142	4.142
1987	2.891	2.891
1988	4.378	4.378
1989	3.703	3.703
1990	4.774	4.774
1991	3.159	3.159
1992	2.483	2.483
1993	2.794	2.794
1994	3.497	3.497
1995	3.444	3.444
1996	4.186	4.186
1997	4.079	4.079
1998	2.548	2.548
1999	3.225	3.225
2000	2.964	2.964
2001	2.930	2.930
2002	4.502	4.502
2003	5.036	5.036
2004	4.692	4.692
2005	3.720	3.720
2006	3.788	3.788
2007	4.462	4.462
2008	2.360	2.360
2009	2.234	2.234

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	5.5068	5.5068
2	5.2845	5.2845
3	5.1689	5.1689
4	5.0364	5.0364
5	4.9424	4.9424
6	4.7735	4.7735
7	4.7546	4.7546
8	4.7026	4.7026
9	4.6923	4.6923
10	4.5024	4.5024
11	4.4618	4.4618

12	4.4565	4.4565
13	4.3781	4.3781
14	4.3327	4.3327
15	4.1985	4.1985
16	4.1859	4.1859
17	4.1424	4.1424
18	4.1366	4.1366
19	4.1096	4.1096
20	4.0793	4.0793
21	4.0788	4.0788
22	4.0065	4.0065
23	3.9873	3.9873
24	3.9489	3.9489
25	3.9144	3.9144
26	3.8775	3.8775
27	3.8242	3.8242
28	3.7883	3.7883
29	3.7692	3.7692
30	3.7201	3.7201
31	3.7087	3.7087
32	3.7033	3.7033
33	3.6714	3.6714
34	3.5446	3.5446
35	3.5069	3.5069
36	3.4970	3.4970
37	3.4509	3.4509
38	3.4436	3.4436
39	3.4126	3.4126
40	3.2245	3.2245
41	3.2214	3.2214
42	3.1862	3.1862
43	3.1593	3.1593
44	3.1521	3.1521
45	2.9635	2.9635
46	2.9296	2.9296
47	2.8915	2.8915
48	2.7936	2.7936
49	2.6275	2.6275
50	2.5680	2.5680
51	2.5479	2.5479
52	2.4832	2.4832
53	2.3599	2.3599
54	2.2335	2.2335

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.8838	1099	1099	100	Pass
1.9205	1026	1026	100	Pass
1.9572	955	955	100	Pass
1.9940	887	887	100	Pass
2.0307	830	830	100	Pass
2.0674	768	768	100	Pass
2.1041	711	711	100	Pass
2.1408	658	658	100	Pass
2.1775	607	607	100	Pass
2.2143	563	563	100	Pass
2.2510	527	527	100	Pass
2.2877	493	493	100	Pass
2.3244	461	461	100	Pass
2.3611	423	423	100	Pass
2.3978	395	395	100	Pass
2.4346	368	368	100	Pass
2.4713	344	344	100	Pass
2.5080	319	319	100	Pass
2.5447	299	299	100	Pass
2.5814	285	285	100	Pass
2.6181	267	267	100	Pass
2.6549	256	256	100	Pass
2.6916	238	238	100	Pass
2.7283	227	227	100	Pass
2.7650	215	215	100	Pass
2.8017	201	201	100	Pass
2.8384	194	194	100	Pass
2.8752	184	184	100	Pass
2.9119	174	174	100	Pass
2.9486	166	166	100	Pass
2.9853	159	159	100	Pass
3.0220	150	150	100	Pass
3.0588	142	142	100	Pass
3.0955	135	135	100	Pass
3.1322	126	126	100	Pass
3.1689	116	116	100	Pass
3.2056	108	108	100	Pass
3.2423	100	100	100	Pass
3.2791	98	98	100	Pass
3.3158	93	93	100	Pass
3.3525	91	91	100	Pass
3.3892	89	89	100	Pass
3.4259	81	81	100	Pass
3.4626	77	77	100	Pass
3.4994	73	73	100	Pass
3.5361	70	70	100	Pass
3.5728	64	64	100	Pass
3.6095	63	63	100	Pass
3.6462	60	60	100	Pass
3.6829	57	57	100	Pass
3.7197	53	53	100	Pass
3.7564	51	51	100	Pass
3.7931	46	46	100	Pass

3.8298	43	43	100	Pass
3.8665	43	43	100	Pass
3.9032	42	42	100	Pass
3.9400	40	40	100	Pass
3.9767	38	38	100	Pass
4.0134	34	34	100	Pass
4.0501	34	34	100	Pass
4.0868	32	32	100	Pass
4.1236	28	28	100	Pass
4.1603	26	26	100	Pass
4.1970	24	24	100	Pass
4.2337	23	23	100	Pass
4.2704	23	23	100	Pass
4.3071	23	23	100	Pass
4.3439	21	21	100	Pass
4.3806	18	18	100	Pass
4.4173	18	18	100	Pass
4.4540	17	17	100	Pass
4.4907	14	14	100	Pass
4.5274	13	13	100	Pass
4.5642	12	12	100	Pass
4.6009	11	11	100	Pass
4.6376	11	11	100	Pass
4.6743	11	11	100	Pass
4.7110	9	9	100	Pass
4.7477	9	9	100	Pass
4.7845	6	6	100	Pass
4.8212	6	6	100	Pass
4.8579	6	6	100	Pass
4.8946	6	6	100	Pass
4.9313	6	6	100	Pass
4.9680	5	5	100	Pass
5.0048	4	4	100	Pass
5.0415	3	3	100	Pass
5.0782	3	3	100	Pass
5.1149	3	3	100	Pass
5.1516	3	3	100	Pass
5.1883	2	2	100	Pass
5.2251	2	2	100	Pass
5.2618	2	2	100	Pass
5.2985	1	1	100	Pass
5.3352	1	1	100	Pass
5.3719	1	1	100	Pass
5.4087	1	1	100	Pass
5.4454	1	1	100	Pass
5.4821	1	1	100	Pass
5.5188	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #6

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

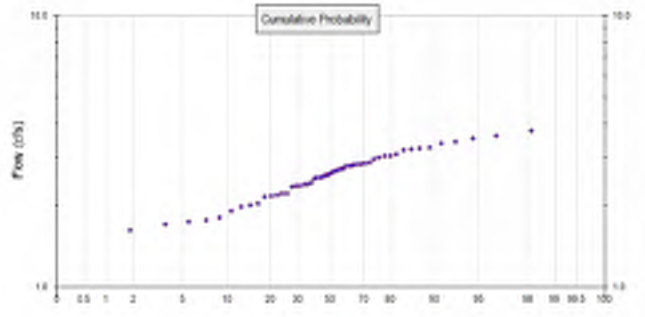
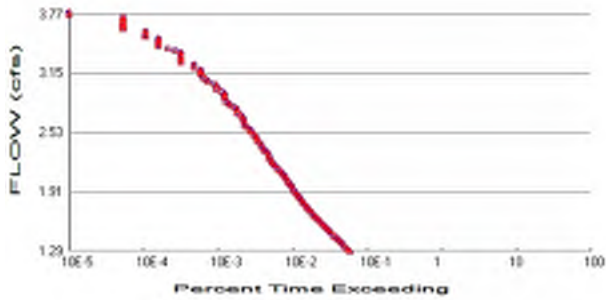
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 7



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #7

Total Pervious Area: 0.44
 Total Impervious Area: 3.27

Mitigated Landuse Totals for POC #7

Total Pervious Area: 0.44
 Total Impervious Area: 3.27

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #7

Return Period	Flow(cfs)
2 year	2.575542
5 year	3.053599
10 year	3.311881
25 year	3.590877
50 year	3.771965
100 year	3.934777

Flow Frequency Return Periods for Mitigated. POC #7

Return Period	Flow(cfs)
2 year	2.575542
5 year	3.053599
10 year	3.311881
25 year	3.590877
50 year	3.771965
100 year	3.934777

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #7

Year	Predeveloped	Mitigated
1956	2.699	2.699
1957	3.378	3.378
1958	2.614	2.614
1959	2.576	2.576
1960	2.675	2.675
1961	2.203	2.203
1962	3.533	3.533
1963	3.250	3.250
1964	2.828	2.828
1965	2.809	2.809
1966	2.738	2.738

1967	1.756	1.756
1968	2.650	2.650
1969	2.509	2.509
1970	2.398	2.398
1971	3.612	3.612
1972	3.046	3.046
1973	2.870	2.870
1974	2.725	2.725
1975	2.423	2.423
1976	2.962	2.962
1977	2.155	2.155
1978	3.764	3.764
1979	2.359	2.359
1980	2.178	2.178
1981	2.789	2.789
1982	3.215	3.215
1983	2.535	2.535
1984	2.333	2.333
1985	1.797	1.797
1986	2.831	2.831
1987	1.977	1.977
1988	2.993	2.993
1989	2.532	2.532
1990	3.263	3.263
1991	2.161	2.161
1992	1.698	1.698
1993	1.910	1.910
1994	2.391	2.391
1995	2.355	2.355
1996	2.863	2.863
1997	2.788	2.788
1998	1.742	1.742
1999	2.204	2.204
2000	2.026	2.026
2001	2.003	2.003
2002	3.080	3.080
2003	3.442	3.442
2004	3.207	3.207
2005	2.543	2.543
2006	2.589	2.589
2007	3.050	3.050
2008	1.614	1.614
2009	1.527	1.527

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	3.7643	3.7643
2	3.6118	3.6118
3	3.5327	3.5327
4	3.4421	3.4421
5	3.3784	3.3784
6	3.2626	3.2626
7	3.2497	3.2497
8	3.2147	3.2147
9	3.2072	3.2072
10	3.0797	3.0797
11	3.0496	3.0496

12	3.0457	3.0457
13	2.9926	2.9926
14	2.9615	2.9615
15	2.8701	2.8701
16	2.8625	2.8625
17	2.8315	2.8315
18	2.8278	2.8278
19	2.8090	2.8090
20	2.7887	2.7887
21	2.7884	2.7884
22	2.7383	2.7383
23	2.7252	2.7252
24	2.6989	2.6989
25	2.6753	2.6753
26	2.6504	2.6504
27	2.6144	2.6144
28	2.5894	2.5894
29	2.5762	2.5762
30	2.5429	2.5429
31	2.5352	2.5352
32	2.5316	2.5316
33	2.5093	2.5093
34	2.4230	2.4230
35	2.3977	2.3977
36	2.3905	2.3905
37	2.3588	2.3588
38	2.3551	2.3551
39	2.3326	2.3326
40	2.2044	2.2044
41	2.2028	2.2028
42	2.1781	2.1781
43	2.1606	2.1606
44	2.1548	2.1548
45	2.0259	2.0259
46	2.0032	2.0032
47	1.9766	1.9766
48	1.9102	1.9102
49	1.7968	1.7968
50	1.7557	1.7557
51	1.7420	1.7420
52	1.6979	1.6979
53	1.6136	1.6136
54	1.5273	1.5273

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.2878	1099	1099	100	Pass
1.3129	1028	1028	100	Pass
1.3380	957	957	100	Pass
1.3630	884	884	100	Pass
1.3881	830	830	100	Pass
1.4132	768	768	100	Pass
1.4383	711	711	100	Pass
1.4634	658	658	100	Pass
1.4885	607	607	100	Pass
1.5136	563	563	100	Pass
1.5387	530	530	100	Pass
1.5638	495	495	100	Pass
1.5889	462	462	100	Pass
1.6140	425	425	100	Pass
1.6391	395	395	100	Pass
1.6642	368	368	100	Pass
1.6893	344	344	100	Pass
1.7143	320	320	100	Pass
1.7394	299	299	100	Pass
1.7645	285	285	100	Pass
1.7896	267	267	100	Pass
1.8147	256	256	100	Pass
1.8398	238	238	100	Pass
1.8649	228	228	100	Pass
1.8900	216	216	100	Pass
1.9151	201	201	100	Pass
1.9402	194	194	100	Pass
1.9653	185	185	100	Pass
1.9904	174	174	100	Pass
2.0155	167	167	100	Pass
2.0406	159	159	100	Pass
2.0656	151	151	100	Pass
2.0907	142	142	100	Pass
2.1158	136	136	100	Pass
2.1409	127	127	100	Pass
2.1660	116	116	100	Pass
2.1911	108	108	100	Pass
2.2162	100	100	100	Pass
2.2413	98	98	100	Pass
2.2664	93	93	100	Pass
2.2915	91	91	100	Pass
2.3166	89	89	100	Pass
2.3417	81	81	100	Pass
2.3668	77	77	100	Pass
2.3919	73	73	100	Pass
2.4170	70	70	100	Pass
2.4420	64	64	100	Pass
2.4671	63	63	100	Pass
2.4922	61	61	100	Pass
2.5173	57	57	100	Pass
2.5424	53	53	100	Pass
2.5675	51	51	100	Pass
2.5926	46	46	100	Pass

2.6177	43	43	100	Pass
2.6428	43	43	100	Pass
2.6679	42	42	100	Pass
2.6930	40	40	100	Pass
2.7181	38	38	100	Pass
2.7432	34	34	100	Pass
2.7683	34	34	100	Pass
2.7933	32	32	100	Pass
2.8184	28	28	100	Pass
2.8435	26	26	100	Pass
2.8686	24	24	100	Pass
2.8937	23	23	100	Pass
2.9188	23	23	100	Pass
2.9439	23	23	100	Pass
2.9690	21	21	100	Pass
2.9941	18	18	100	Pass
3.0192	18	18	100	Pass
3.0443	17	17	100	Pass
3.0694	14	14	100	Pass
3.0945	13	13	100	Pass
3.1196	12	12	100	Pass
3.1446	11	11	100	Pass
3.1697	11	11	100	Pass
3.1948	11	11	100	Pass
3.2199	9	9	100	Pass
3.2450	9	9	100	Pass
3.2701	6	6	100	Pass
3.2952	6	6	100	Pass
3.3203	6	6	100	Pass
3.3454	6	6	100	Pass
3.3705	6	6	100	Pass
3.3956	5	5	100	Pass
3.4207	4	4	100	Pass
3.4458	3	3	100	Pass
3.4709	3	3	100	Pass
3.4959	3	3	100	Pass
3.5210	3	3	100	Pass
3.5461	2	2	100	Pass
3.5712	2	2	100	Pass
3.5963	2	2	100	Pass
3.6214	1	1	100	Pass
3.6465	1	1	100	Pass
3.6716	1	1	100	Pass
3.6967	1	1	100	Pass
3.7218	1	1	100	Pass
3.7469	1	1	100	Pass
3.7720	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #7

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

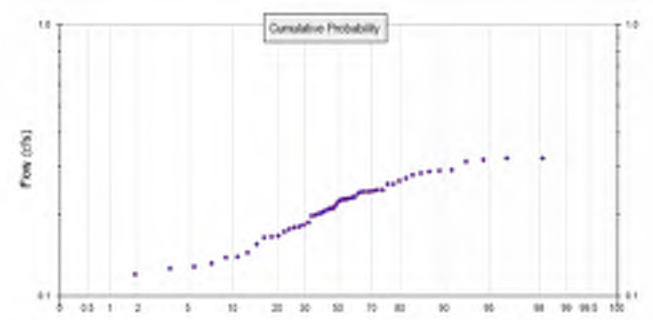
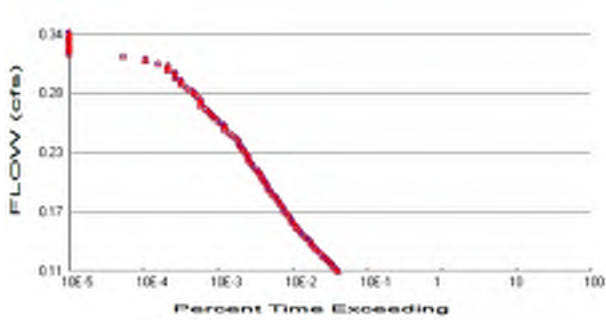
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 8



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #8

Total Pervious Area: 0.2
Total Impervious Area: 0.18

Mitigated Landuse Totals for POC #8

Total Pervious Area: 0.2
Total Impervious Area: 0.18

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #8

Return Period	Flow(cfs)
2 year	0.212584
5 year	0.263541
10 year	0.291978
25 year	0.323355
50 year	0.344069
100 year	0.362916

Flow Frequency Return Periods for Mitigated. POC #8

Return Period	Flow(cfs)
2 year	0.212584
5 year	0.263541
10 year	0.291978
25 year	0.323355
50 year	0.344069
100 year	0.362916

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #8

Year	Predeveloped	Mitigated
1956	0.245	0.245
1957	0.287	0.287
1958	0.208	0.208
1959	0.228	0.228
1960	0.242	0.242
1961	0.165	0.165
1962	0.321	0.321
1963	0.290	0.290
1964	0.233	0.233
1965	0.243	0.243
1966	0.246	0.246

1967	0.138	0.138
1968	0.230	0.230
1969	0.226	0.226
1970	0.183	0.183
1971	0.323	0.323
1972	0.280	0.280
1973	0.239	0.239
1974	0.245	0.245
1975	0.206	0.206
1976	0.258	0.258
1977	0.176	0.176
1978	0.317	0.317
1979	0.203	0.203
1980	0.179	0.179
1981	0.229	0.229
1982	0.265	0.265
1983	0.210	0.210
1984	0.201	0.201
1985	0.127	0.127
1986	0.243	0.243
1987	0.165	0.165
1988	0.258	0.258
1989	0.210	0.210
1990	0.292	0.292
1991	0.172	0.172
1992	0.128	0.128
1993	0.139	0.139
1994	0.199	0.199
1995	0.155	0.155
1996	0.197	0.197
1997	0.227	0.227
1998	0.132	0.132
1999	0.180	0.180
2000	0.166	0.166
2001	0.145	0.145
2002	0.186	0.186
2003	0.314	0.314
2004	0.283	0.283
2005	0.217	0.217
2006	0.223	0.223
2007	0.271	0.271
2008	0.120	0.120
2009	0.110	0.110

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	0.3229	0.3229
2	0.3209	0.3209
3	0.3165	0.3165
4	0.3138	0.3138
5	0.2916	0.2916
6	0.2896	0.2896
7	0.2867	0.2867
8	0.2830	0.2830
9	0.2795	0.2795
10	0.2713	0.2713
11	0.2651	0.2651

12	0.2585	0.2585
13	0.2583	0.2583
14	0.2457	0.2457
15	0.2455	0.2455
16	0.2447	0.2447
17	0.2432	0.2432
18	0.2427	0.2427
19	0.2416	0.2416
20	0.2389	0.2389
21	0.2331	0.2331
22	0.2301	0.2301
23	0.2288	0.2288
24	0.2282	0.2282
25	0.2269	0.2269
26	0.2257	0.2257
27	0.2231	0.2231
28	0.2167	0.2167
29	0.2103	0.2103
30	0.2099	0.2099
31	0.2081	0.2081
32	0.2059	0.2059
33	0.2026	0.2026
34	0.2009	0.2009
35	0.1991	0.1991
36	0.1974	0.1974
37	0.1858	0.1858
38	0.1827	0.1827
39	0.1801	0.1801
40	0.1789	0.1789
41	0.1760	0.1760
42	0.1722	0.1722
43	0.1664	0.1664
44	0.1652	0.1652
45	0.1646	0.1646
46	0.1547	0.1547
47	0.1449	0.1449
48	0.1391	0.1391
49	0.1385	0.1385
50	0.1320	0.1320
51	0.1276	0.1276
52	0.1266	0.1266
53	0.1203	0.1203
54	0.1100	0.1100

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1063	763	763	100	Pass
0.1087	720	720	100	Pass
0.1111	667	667	100	Pass
0.1135	627	627	100	Pass
0.1159	582	582	100	Pass
0.1183	549	549	100	Pass
0.1207	506	506	100	Pass
0.1231	470	470	100	Pass
0.1255	428	428	100	Pass
0.1279	392	392	100	Pass
0.1303	372	372	100	Pass
0.1327	353	353	100	Pass
0.1351	333	333	100	Pass
0.1375	317	317	100	Pass
0.1399	290	290	100	Pass
0.1423	266	266	100	Pass
0.1447	247	247	100	Pass
0.1471	234	234	100	Pass
0.1495	213	213	100	Pass
0.1519	209	209	100	Pass
0.1543	195	195	100	Pass
0.1567	186	186	100	Pass
0.1591	177	177	100	Pass
0.1615	171	171	100	Pass
0.1639	162	162	100	Pass
0.1663	151	151	100	Pass
0.1687	144	144	100	Pass
0.1711	139	139	100	Pass
0.1735	129	129	100	Pass
0.1759	126	126	100	Pass
0.1783	118	118	100	Pass
0.1807	111	111	100	Pass
0.1831	102	102	100	Pass
0.1856	98	98	100	Pass
0.1880	93	93	100	Pass
0.1904	89	89	100	Pass
0.1928	86	86	100	Pass
0.1952	82	82	100	Pass
0.1976	78	78	100	Pass
0.2000	74	74	100	Pass
0.2024	73	73	100	Pass
0.2048	68	68	100	Pass
0.2072	64	64	100	Pass
0.2096	61	61	100	Pass
0.2120	56	56	100	Pass
0.2144	53	53	100	Pass
0.2168	49	49	100	Pass
0.2192	48	48	100	Pass
0.2216	48	48	100	Pass
0.2240	46	46	100	Pass
0.2264	43	43	100	Pass
0.2288	41	41	100	Pass
0.2312	38	38	100	Pass

0.2336	37	37	100	Pass
0.2360	36	36	100	Pass
0.2384	35	35	100	Pass
0.2408	32	32	100	Pass
0.2432	29	29	100	Pass
0.2456	26	26	100	Pass
0.2480	23	23	100	Pass
0.2504	23	23	100	Pass
0.2528	23	23	100	Pass
0.2552	21	21	100	Pass
0.2576	19	19	100	Pass
0.2600	17	17	100	Pass
0.2624	16	16	100	Pass
0.2648	15	15	100	Pass
0.2672	14	14	100	Pass
0.2696	13	13	100	Pass
0.2720	11	11	100	Pass
0.2744	11	11	100	Pass
0.2768	11	11	100	Pass
0.2792	11	11	100	Pass
0.2816	10	10	100	Pass
0.2840	9	9	100	Pass
0.2864	9	9	100	Pass
0.2888	8	8	100	Pass
0.2912	7	7	100	Pass
0.2936	6	6	100	Pass
0.2960	6	6	100	Pass
0.2984	6	6	100	Pass
0.3008	5	5	100	Pass
0.3032	5	5	100	Pass
0.3056	5	5	100	Pass
0.3080	4	4	100	Pass
0.3104	4	4	100	Pass
0.3128	4	4	100	Pass
0.3152	3	3	100	Pass
0.3176	2	2	100	Pass
0.3201	2	2	100	Pass
0.3225	1	1	100	Pass
0.3249	0	0	100	Pass
0.3273	0	0	0	Pass
0.3297	0	0	0	Pass
0.3321	0	0	0	Pass
0.3345	0	0	0	Pass
0.3369	0	0	0	Pass
0.3393	0	0	0	Pass
0.3417	0	0	0	Pass
0.3441	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #8

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

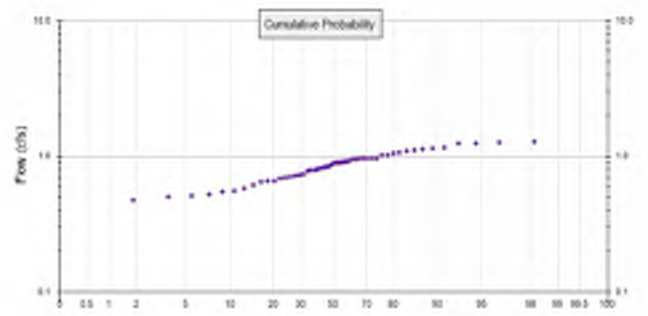
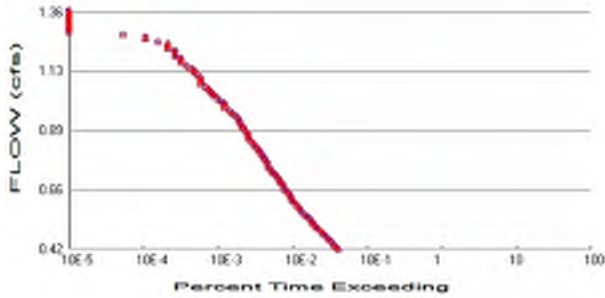
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 9



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #9

Total Pervious Area: 0.78
 Total Impervious Area: 0.72

Mitigated Landuse Totals for POC #9

Total Pervious Area: 0.78
 Total Impervious Area: 0.72

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #9

Return Period	Flow(cfs)
2 year	0.842255
5 year	1.043147
10 year	1.155179
25 year	1.278737
50 year	1.360276
100 year	1.434448

Flow Frequency Return Periods for Mitigated. POC #9

Return Period	Flow(cfs)
2 year	0.842255
5 year	1.043147
10 year	1.155179
25 year	1.278737
50 year	1.360276
100 year	1.434448

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #9

Year	Predeveloped	Mitigated
1956	0.968	0.968
1957	1.135	1.135
1958	0.825	0.825
1959	0.903	0.903
1960	0.956	0.956
1961	0.651	0.651
1962	1.269	1.269
1963	1.146	1.146
1964	0.924	0.924
1965	0.963	0.963
1966	0.972	0.972

1967	0.549	0.549
1968	0.911	0.911
1969	0.893	0.893
1970	0.725	0.725
1971	1.278	1.278
1972	1.105	1.105
1973	0.946	0.946
1974	0.971	0.971
1975	0.815	0.815
1976	1.022	1.022
1977	0.697	0.697
1978	1.254	1.254
1979	0.802	0.802
1980	0.709	0.709
1981	0.907	0.907
1982	1.051	1.051
1983	0.833	0.833
1984	0.795	0.795
1985	0.503	0.503
1986	0.961	0.961
1987	0.655	0.655
1988	1.023	1.023
1989	0.832	0.832
1990	1.154	1.154
1991	0.682	0.682
1992	0.507	0.507
1993	0.553	0.553
1994	0.789	0.789
1995	0.616	0.616
1996	0.785	0.785
1997	0.899	0.899
1998	0.524	0.524
1999	0.713	0.713
2000	0.659	0.659
2001	0.576	0.576
2002	0.741	0.741
2003	1.241	1.241
2004	1.120	1.120
2005	0.858	0.858
2006	0.883	0.883
2007	1.074	1.074
2008	0.478	0.478
2009	0.437	0.437

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #9

Rank	Predeveloped	Mitigated
1	1.2776	1.2776
2	1.2694	1.2694
3	1.2536	1.2536
4	1.2412	1.2412
5	1.1535	1.1535
6	1.1457	1.1457
7	1.1352	1.1352
8	1.1199	1.1199
9	1.1053	1.1053
10	1.0735	1.0735
11	1.0505	1.0505

12	1.0233	1.0233
13	1.0222	1.0222
14	0.9718	0.9718
15	0.9711	0.9711
16	0.9679	0.9679
17	0.9626	0.9626
18	0.9609	0.9609
19	0.9557	0.9557
20	0.9464	0.9464
21	0.9236	0.9236
22	0.9108	0.9108
23	0.9065	0.9065
24	0.9029	0.9029
25	0.8993	0.8993
26	0.8929	0.8929
27	0.8834	0.8834
28	0.8582	0.8582
29	0.8330	0.8330
30	0.8317	0.8317
31	0.8253	0.8253
32	0.8152	0.8152
33	0.8022	0.8022
34	0.7953	0.7953
35	0.7886	0.7886
36	0.7851	0.7851
37	0.7414	0.7414
38	0.7249	0.7249
39	0.7133	0.7133
40	0.7085	0.7085
41	0.6975	0.6975
42	0.6822	0.6822
43	0.6593	0.6593
44	0.6546	0.6546
45	0.6514	0.6514
46	0.6159	0.6159
47	0.5756	0.5756
48	0.5527	0.5527
49	0.5491	0.5491
50	0.5240	0.5240
51	0.5066	0.5066
52	0.5033	0.5033
53	0.4776	0.4776
54	0.4370	0.4370

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4211	769	769	100	Pass
0.4306	724	724	100	Pass
0.4401	671	671	100	Pass
0.4496	631	631	100	Pass
0.4591	584	584	100	Pass
0.4686	551	551	100	Pass
0.4780	510	510	100	Pass
0.4875	474	474	100	Pass
0.4970	432	432	100	Pass
0.5065	395	395	100	Pass
0.5160	376	376	100	Pass
0.5255	357	357	100	Pass
0.5350	335	335	100	Pass
0.5445	318	318	100	Pass
0.5539	291	291	100	Pass
0.5634	269	269	100	Pass
0.5729	248	248	100	Pass
0.5824	235	235	100	Pass
0.5919	217	217	100	Pass
0.6014	209	209	100	Pass
0.6109	197	197	100	Pass
0.6203	186	186	100	Pass
0.6298	178	178	100	Pass
0.6393	171	171	100	Pass
0.6488	163	163	100	Pass
0.6583	151	151	100	Pass
0.6678	145	145	100	Pass
0.6773	140	140	100	Pass
0.6867	131	131	100	Pass
0.6962	126	126	100	Pass
0.7057	120	120	100	Pass
0.7152	112	112	100	Pass
0.7247	103	103	100	Pass
0.7342	98	98	100	Pass
0.7437	93	93	100	Pass
0.7531	89	89	100	Pass
0.7626	88	88	100	Pass
0.7721	83	83	100	Pass
0.7816	79	79	100	Pass
0.7911	76	76	100	Pass
0.8006	73	73	100	Pass
0.8101	68	68	100	Pass
0.8196	65	65	100	Pass
0.8290	61	61	100	Pass
0.8385	57	57	100	Pass
0.8480	53	53	100	Pass
0.8575	49	49	100	Pass
0.8670	48	48	100	Pass
0.8765	48	48	100	Pass
0.8860	46	46	100	Pass
0.8954	43	43	100	Pass
0.9049	41	41	100	Pass
0.9144	38	38	100	Pass

0.9239	38	38	100	Pass
0.9334	36	36	100	Pass
0.9429	35	35	100	Pass
0.9524	32	32	100	Pass
0.9618	29	29	100	Pass
0.9713	27	27	100	Pass
0.9808	23	23	100	Pass
0.9903	23	23	100	Pass
0.9998	23	23	100	Pass
1.0093	21	21	100	Pass
1.0188	19	19	100	Pass
1.0283	17	17	100	Pass
1.0377	16	16	100	Pass
1.0472	15	15	100	Pass
1.0567	14	14	100	Pass
1.0662	13	13	100	Pass
1.0757	11	11	100	Pass
1.0852	11	11	100	Pass
1.0947	11	11	100	Pass
1.1041	11	11	100	Pass
1.1136	10	10	100	Pass
1.1231	9	9	100	Pass
1.1326	9	9	100	Pass
1.1421	8	8	100	Pass
1.1516	7	7	100	Pass
1.1611	6	6	100	Pass
1.1705	6	6	100	Pass
1.1800	6	6	100	Pass
1.1895	5	5	100	Pass
1.1990	5	5	100	Pass
1.2085	5	5	100	Pass
1.2180	4	4	100	Pass
1.2275	4	4	100	Pass
1.2370	4	4	100	Pass
1.2464	3	3	100	Pass
1.2559	2	2	100	Pass
1.2654	2	2	100	Pass
1.2749	1	1	100	Pass
1.2844	0	0	100	Pass
1.2939	0	0	0	Pass
1.3034	0	0	0	Pass
1.3128	0	0	0	Pass
1.3223	0	0	0	Pass
1.3318	0	0	0	Pass
1.3413	0	0	0	Pass
1.3508	0	0	0	Pass
1.3603	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #9

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

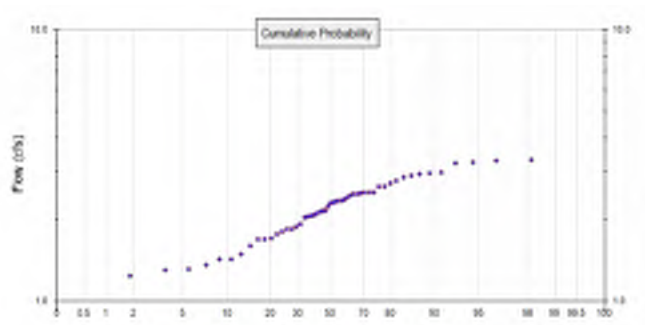
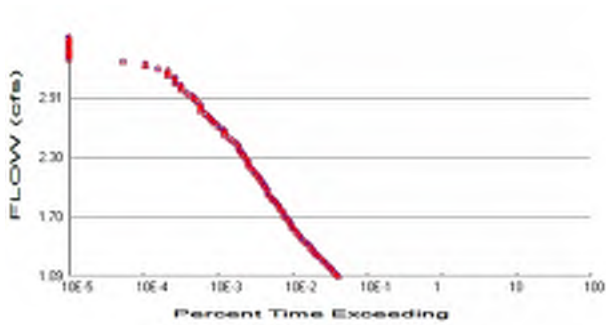
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 10



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #10

Total Pervious Area: 2.02
 Total Impervious Area: 1.86

Mitigated Landuse Totals for POC #10

Total Pervious Area: 2.02
 Total Impervious Area: 1.86

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #10

Return Period	Flow(cfs)
2 year	2.177845
5 year	2.69755
10 year	2.987396
25 year	3.307074
50 year	3.518044
100 year	3.70996

Flow Frequency Return Periods for Mitigated. POC #10

Return Period	Flow(cfs)
2 year	2.177845
5 year	2.69755
10 year	2.987396
25 year	3.307074
50 year	3.518044
100 year	3.70996

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #10

Year	Predeveloped	Mitigated
1956	2.503	2.503
1957	2.936	2.936
1958	2.134	2.134
1959	2.335	2.335
1960	2.472	2.472
1961	1.685	1.685
1962	3.283	3.283
1963	2.963	2.963
1964	2.388	2.388
1965	2.489	2.489
1966	2.513	2.513

1967	1.420	1.420
1968	2.355	2.355
1969	2.309	2.309
1970	1.874	1.874
1971	3.304	3.304
1972	2.859	2.859
1973	2.447	2.447
1974	2.511	2.511
1975	2.108	2.108
1976	2.643	2.643
1977	1.803	1.803
1978	3.242	3.242
1979	2.074	2.074
1980	1.832	1.832
1981	2.344	2.344
1982	2.716	2.716
1983	2.154	2.154
1984	2.057	2.057
1985	1.301	1.301
1986	2.485	2.485
1987	1.693	1.693
1988	2.646	2.646
1989	2.151	2.151
1990	2.983	2.983
1991	1.764	1.764
1992	1.310	1.310
1993	1.429	1.429
1994	2.039	2.039
1995	1.592	1.592
1996	2.029	2.029
1997	2.325	2.325
1998	1.355	1.355
1999	1.845	1.845
2000	1.705	1.705
2001	1.488	1.488
2002	1.916	1.916
2003	3.210	3.210
2004	2.896	2.896
2005	2.219	2.219
2006	2.284	2.284
2007	2.776	2.776
2008	1.235	1.235
2009	1.130	1.130

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #10

Rank	Predeveloped	Mitigated
1	3.3039	3.3039
2	3.2828	3.2828
3	3.2415	3.2415
4	3.2100	3.2100
5	2.9831	2.9831
6	2.9630	2.9630
7	2.9355	2.9355
8	2.8960	2.8960
9	2.8586	2.8586
10	2.7762	2.7762
11	2.7163	2.7163

12	2.6462	2.6462
13	2.6434	2.6434
14	2.5132	2.5132
15	2.5114	2.5114
16	2.5031	2.5031
17	2.4893	2.4893
18	2.4848	2.4848
19	2.4717	2.4717
20	2.4471	2.4471
21	2.3882	2.3882
22	2.3552	2.3552
23	2.3440	2.3440
24	2.3349	2.3349
25	2.3253	2.3253
26	2.3090	2.3090
27	2.2844	2.2844
28	2.2192	2.2192
29	2.1540	2.1540
30	2.1506	2.1506
31	2.1338	2.1338
32	2.1081	2.1081
33	2.0744	2.0744
34	2.0565	2.0565
35	2.0391	2.0391
36	2.0292	2.0292
37	1.9157	1.9157
38	1.8741	1.8741
39	1.8445	1.8445
40	1.8322	1.8322
41	1.8034	1.8034
42	1.7640	1.7640
43	1.7049	1.7049
44	1.6926	1.6926
45	1.6846	1.6846
46	1.5919	1.5919
47	1.4880	1.4880
48	1.4288	1.4288
49	1.4198	1.4198
50	1.3546	1.3546
51	1.3098	1.3098
52	1.3011	1.3011
53	1.2348	1.2348
54	1.1297	1.1297

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.0889	770	770	100	Pass
1.1135	722	722	100	Pass
1.1380	671	671	100	Pass
1.1625	628	628	100	Pass
1.1871	583	583	100	Pass
1.2116	550	550	100	Pass
1.2361	510	510	100	Pass
1.2607	474	474	100	Pass
1.2852	431	431	100	Pass
1.3098	395	395	100	Pass
1.3343	375	375	100	Pass
1.3588	356	356	100	Pass
1.3834	334	334	100	Pass
1.4079	318	318	100	Pass
1.4324	291	291	100	Pass
1.4570	269	269	100	Pass
1.4815	247	247	100	Pass
1.5060	234	234	100	Pass
1.5306	217	217	100	Pass
1.5551	209	209	100	Pass
1.5797	197	197	100	Pass
1.6042	186	186	100	Pass
1.6287	178	178	100	Pass
1.6533	171	171	100	Pass
1.6778	163	163	100	Pass
1.7023	151	151	100	Pass
1.7269	145	145	100	Pass
1.7514	140	140	100	Pass
1.7759	130	130	100	Pass
1.8005	126	126	100	Pass
1.8250	119	119	100	Pass
1.8496	112	112	100	Pass
1.8741	103	103	100	Pass
1.8986	98	98	100	Pass
1.9232	92	92	100	Pass
1.9477	89	89	100	Pass
1.9722	88	88	100	Pass
1.9968	83	83	100	Pass
2.0213	79	79	100	Pass
2.0458	76	76	100	Pass
2.0704	73	73	100	Pass
2.0949	68	68	100	Pass
2.1195	65	65	100	Pass
2.1440	61	61	100	Pass
2.1685	57	57	100	Pass
2.1931	53	53	100	Pass
2.2176	49	49	100	Pass
2.2421	48	48	100	Pass
2.2667	48	48	100	Pass
2.2912	46	46	100	Pass
2.3158	43	43	100	Pass
2.3403	41	41	100	Pass
2.3648	38	38	100	Pass

2.3894	37	37	100	Pass
2.4139	36	36	100	Pass
2.4384	35	35	100	Pass
2.4630	32	32	100	Pass
2.4875	29	29	100	Pass
2.5120	26	26	100	Pass
2.5366	23	23	100	Pass
2.5611	23	23	100	Pass
2.5857	23	23	100	Pass
2.6102	21	21	100	Pass
2.6347	19	19	100	Pass
2.6593	17	17	100	Pass
2.6838	16	16	100	Pass
2.7083	15	15	100	Pass
2.7329	14	14	100	Pass
2.7574	13	13	100	Pass
2.7819	11	11	100	Pass
2.8065	11	11	100	Pass
2.8310	11	11	100	Pass
2.8556	11	11	100	Pass
2.8801	10	10	100	Pass
2.9046	9	9	100	Pass
2.9292	9	9	100	Pass
2.9537	8	8	100	Pass
2.9782	7	7	100	Pass
3.0028	6	6	100	Pass
3.0273	6	6	100	Pass
3.0518	6	6	100	Pass
3.0764	5	5	100	Pass
3.1009	5	5	100	Pass
3.1255	5	5	100	Pass
3.1500	4	4	100	Pass
3.1745	4	4	100	Pass
3.1991	4	4	100	Pass
3.2236	3	3	100	Pass
3.2481	2	2	100	Pass
3.2727	2	2	100	Pass
3.2972	1	1	100	Pass
3.3218	0	0	100	Pass
3.3463	0	0	0	Pass
3.3708	0	0	0	Pass
3.3954	0	0	0	Pass
3.4199	0	0	0	Pass
3.4444	0	0	0	Pass
3.4690	0	0	0	Pass
3.4935	0	0	0	Pass
3.5180	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #10

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

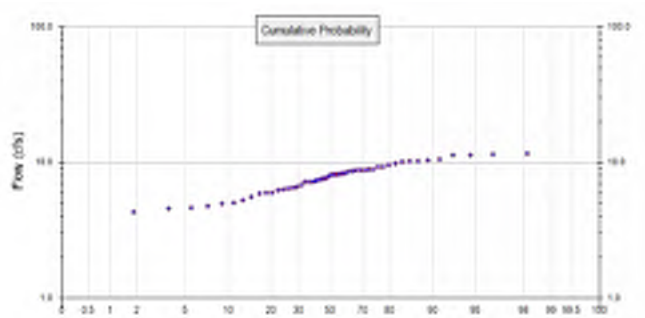
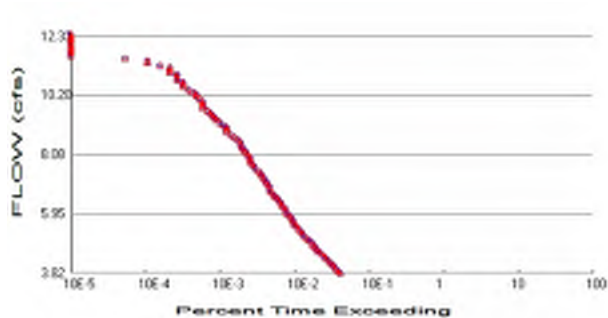
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 11



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #11

Total Pervious Area: 7.07
Total Impervious Area: 6.53

Mitigated Landuse Totals for POC #11

Total Pervious Area: 7.07
Total Impervious Area: 6.53

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #11

Return Period	Flow(cfs)
2 year	7.6371
5 year	9.458475
10 year	10.474192
25 year	11.594391
50 year	12.333626
100 year	13.006078

Flow Frequency Return Periods for Mitigated. POC #11

Return Period	Flow(cfs)
2 year	7.6371
5 year	9.458475
10 year	10.474192
25 year	11.594391
50 year	12.333626
100 year	13.006078

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #11

Year	Predeveloped	Mitigated
1956	8.776	8.776
1957	10.293	10.293
1958	7.483	7.483
1959	8.186	8.186
1960	8.666	8.666
1961	5.907	5.907
1962	11.510	11.510
1963	10.389	10.389
1964	8.375	8.375
1965	8.728	8.728
1966	8.812	8.812

1967	4.979	4.979
1968	8.258	8.258
1969	8.096	8.096
1970	6.573	6.573
1971	11.584	11.584
1972	10.022	10.022
1973	8.581	8.581
1974	8.805	8.805
1975	7.392	7.392
1976	9.269	9.269
1977	6.324	6.324
1978	11.367	11.367
1979	7.274	7.274
1980	6.425	6.425
1981	8.220	8.220
1982	9.526	9.526
1983	7.553	7.553
1984	7.211	7.211
1985	4.564	4.564
1986	8.713	8.713
1987	5.935	5.935
1988	9.278	9.278
1989	7.541	7.541
1990	10.459	10.459
1991	6.186	6.186
1992	4.594	4.594
1993	5.012	5.012
1994	7.151	7.151
1995	5.586	5.586
1996	7.119	7.119
1997	8.155	8.155
1998	4.751	4.751
1999	6.468	6.468
2000	5.979	5.979
2001	5.220	5.220
2002	6.723	6.723
2003	11.254	11.254
2004	10.154	10.154
2005	7.782	7.782
2006	8.010	8.010
2007	9.734	9.734
2008	4.331	4.331
2009	3.963	3.963

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	11.5837	11.5837
2	11.5096	11.5096
3	11.3667	11.3667
4	11.2541	11.2541
5	10.4590	10.4590
6	10.3885	10.3885
7	10.2934	10.2934
8	10.1541	10.1541
9	10.0220	10.0220
10	9.7339	9.7339
11	9.5255	9.5255

12	9.2784	9.2784
13	9.2686	9.2686
14	8.8115	8.8115
15	8.8049	8.8049
16	8.7758	8.7758
17	8.7283	8.7283
18	8.7127	8.7127
19	8.6658	8.6658
20	8.5813	8.5813
21	8.3749	8.3749
22	8.2581	8.2581
23	8.2200	8.2200
24	8.1865	8.1865
25	8.1545	8.1545
26	8.0956	8.0956
27	8.0101	8.0101
28	7.7816	7.7816
29	7.5534	7.5534
30	7.5414	7.5414
31	7.4833	7.4833
32	7.3920	7.3920
33	7.2737	7.2737
34	7.2110	7.2110
35	7.1506	7.1506
36	7.1191	7.1191
37	6.7234	6.7234
38	6.5731	6.5731
39	6.4682	6.4682
40	6.4246	6.4246
41	6.3242	6.3242
42	6.1857	6.1857
43	5.9786	5.9786
44	5.9352	5.9352
45	5.9067	5.9067
46	5.5855	5.5855
47	5.2198	5.2198
48	5.0121	5.0121
49	4.9794	4.9794
50	4.7513	4.7513
51	4.5942	4.5942
52	4.5642	4.5642
53	4.3312	4.3312
54	3.9630	3.9630

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
3.8186	769	769	100	Pass
3.9046	721	721	100	Pass
3.9906	671	671	100	Pass
4.0766	628	628	100	Pass
4.1626	584	584	100	Pass
4.2486	550	550	100	Pass
4.3346	511	511	100	Pass
4.4206	473	473	100	Pass
4.5066	432	432	100	Pass
4.5926	395	395	100	Pass
4.6787	375	375	100	Pass
4.7647	356	356	100	Pass
4.8507	334	334	100	Pass
4.9367	318	318	100	Pass
5.0227	291	291	100	Pass
5.1087	269	269	100	Pass
5.1947	247	247	100	Pass
5.2807	235	235	100	Pass
5.3667	217	217	100	Pass
5.4528	209	209	100	Pass
5.5388	197	197	100	Pass
5.6248	186	186	100	Pass
5.7108	178	178	100	Pass
5.7968	171	171	100	Pass
5.8828	163	163	100	Pass
5.9688	151	151	100	Pass
6.0548	145	145	100	Pass
6.1408	140	140	100	Pass
6.2269	130	130	100	Pass
6.3129	126	126	100	Pass
6.3989	120	120	100	Pass
6.4849	112	112	100	Pass
6.5709	103	103	100	Pass
6.6569	98	98	100	Pass
6.7429	92	92	100	Pass
6.8289	89	89	100	Pass
6.9149	88	88	100	Pass
7.0010	83	83	100	Pass
7.0870	79	79	100	Pass
7.1730	76	76	100	Pass
7.2590	73	73	100	Pass
7.3450	68	68	100	Pass
7.4310	65	65	100	Pass
7.5170	61	61	100	Pass
7.6030	56	56	100	Pass
7.6890	53	53	100	Pass
7.7750	49	49	100	Pass
7.8611	48	48	100	Pass
7.9471	48	48	100	Pass
8.0331	46	46	100	Pass
8.1191	43	43	100	Pass
8.2051	41	41	100	Pass
8.2911	38	38	100	Pass

8.3771	37	37	100	Pass
8.4631	36	36	100	Pass
8.5491	35	35	100	Pass
8.6352	32	32	100	Pass
8.7212	29	29	100	Pass
8.8072	26	26	100	Pass
8.8932	23	23	100	Pass
8.9792	23	23	100	Pass
9.0652	23	23	100	Pass
9.1512	21	21	100	Pass
9.2372	19	19	100	Pass
9.3232	17	17	100	Pass
9.4093	16	16	100	Pass
9.4953	15	15	100	Pass
9.5813	14	14	100	Pass
9.6673	13	13	100	Pass
9.7533	11	11	100	Pass
9.8393	11	11	100	Pass
9.9253	11	11	100	Pass
10.0113	11	11	100	Pass
10.0973	10	10	100	Pass
10.1834	9	9	100	Pass
10.2694	9	9	100	Pass
10.3554	8	8	100	Pass
10.4414	7	7	100	Pass
10.5274	6	6	100	Pass
10.6134	6	6	100	Pass
10.6994	6	6	100	Pass
10.7854	5	5	100	Pass
10.8714	5	5	100	Pass
10.9575	5	5	100	Pass
11.0435	4	4	100	Pass
11.1295	4	4	100	Pass
11.2155	4	4	100	Pass
11.3015	3	3	100	Pass
11.3875	2	2	100	Pass
11.4735	2	2	100	Pass
11.5595	1	1	100	Pass
11.6455	0	0	100	Pass
11.7315	0	0	0	Pass
11.8176	0	0	0	Pass
11.9036	0	0	0	Pass
11.9896	0	0	0	Pass
12.0756	0	0	0	Pass
12.1616	0	0	0	Pass
12.2476	0	0	0	Pass
12.3336	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #11

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

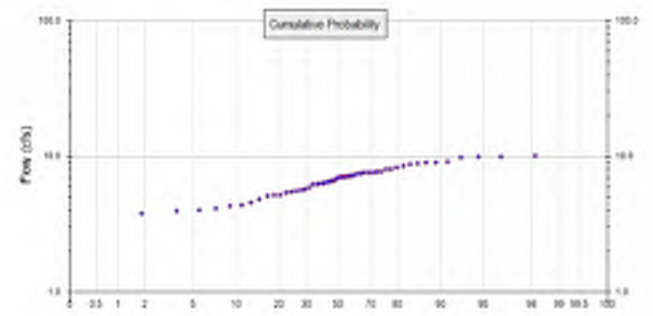
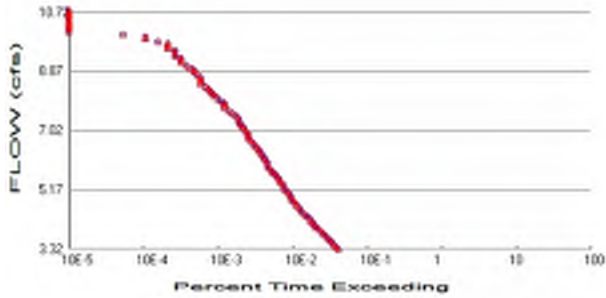
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 12



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #12

Total Pervious Area: 6.15
 Total Impervious Area: 5.67

Mitigated Landuse Totals for POC #12

Total Pervious Area: 6.15
 Total Impervious Area: 5.67

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #12

Return Period	Flow(cfs)
2 year	6.635787
5 year	8.218915
10 year	9.101814
25 year	10.075565
50 year	10.718172
100 year	11.302737

Flow Frequency Return Periods for Mitigated. POC #12

Return Period	Flow(cfs)
2 year	6.635787
5 year	8.218915
10 year	9.101814
25 year	10.075565
50 year	10.718172
100 year	11.302737

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #12

Year	Predeveloped	Mitigated
1956	7.626	7.626
1957	8.944	8.944
1958	6.502	6.502
1959	7.114	7.114
1960	7.530	7.530
1961	5.133	5.133
1962	10.002	10.002
1963	9.027	9.027
1964	7.277	7.277
1965	7.584	7.584
1966	7.657	7.657

1967	4.326	4.326
1968	7.176	7.176
1969	7.035	7.035
1970	5.711	5.711
1971	10.066	10.066
1972	8.709	8.709
1973	7.456	7.456
1974	7.651	7.651
1975	6.423	6.423
1976	8.054	8.054
1977	5.495	5.495
1978	9.877	9.877
1979	6.320	6.320
1980	5.583	5.583
1981	7.142	7.142
1982	8.277	8.277
1983	6.563	6.563
1984	6.266	6.266
1985	3.965	3.965
1986	7.571	7.571
1987	5.157	5.157
1988	8.062	8.062
1989	6.553	6.553
1990	9.089	9.089
1991	5.375	5.375
1992	3.991	3.991
1993	4.354	4.354
1994	6.213	6.213
1995	4.852	4.852
1996	6.184	6.184
1997	7.085	7.085
1998	4.128	4.128
1999	5.620	5.620
2000	5.195	5.195
2001	4.535	4.535
2002	5.839	5.839
2003	9.780	9.780
2004	8.824	8.824
2005	6.762	6.762
2006	6.960	6.960
2007	8.459	8.459
2008	3.763	3.763
2009	3.443	3.443

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #12

Rank	Predeveloped	Mitigated
1	10.0660	10.0660
2	10.0018	10.0018
3	9.8766	9.8766
4	9.7798	9.7798
5	9.0886	9.0886
6	9.0273	9.0273
7	8.9441	8.9441
8	8.8236	8.8236
9	8.7092	8.7092
10	8.4585	8.4585
11	8.2766	8.2766

12	8.0624	8.0624
13	8.0540	8.0540
14	7.6571	7.6571
15	7.6514	7.6514
16	7.6261	7.6261
17	7.5844	7.5844
18	7.5708	7.5708
19	7.5304	7.5304
20	7.4563	7.4563
21	7.2768	7.2768
22	7.1759	7.1759
23	7.1422	7.1422
24	7.1138	7.1138
25	7.0852	7.0852
26	7.0350	7.0350
27	6.9603	6.9603
28	6.7616	6.7616
29	6.5631	6.5631
30	6.5526	6.5526
31	6.5018	6.5018
32	6.4230	6.4230
33	6.3203	6.3203
34	6.2659	6.2659
35	6.2131	6.2131
36	6.1840	6.1840
37	5.8389	5.8389
38	5.7106	5.7106
39	5.6202	5.6202
40	5.5825	5.5825
41	5.4949	5.4949
42	5.3748	5.3748
43	5.1946	5.1946
44	5.1571	5.1571
45	5.1327	5.1327
46	4.8515	4.8515
47	4.5345	4.5345
48	4.3542	4.3542
49	4.3263	4.3263
50	4.1279	4.1279
51	3.9913	3.9913
52	3.9649	3.9649
53	3.7628	3.7628
54	3.4428	3.4428

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
3.3179	769	769	100	Pass
3.3926	721	721	100	Pass
3.4674	670	670	100	Pass
3.5421	628	628	100	Pass
3.6169	584	584	100	Pass
3.6916	550	550	100	Pass
3.7664	510	510	100	Pass
3.8411	473	473	100	Pass
3.9159	432	432	100	Pass
3.9906	395	395	100	Pass
4.0654	375	375	100	Pass
4.1401	356	356	100	Pass
4.2149	334	334	100	Pass
4.2896	318	318	100	Pass
4.3644	291	291	100	Pass
4.4391	269	269	100	Pass
4.5139	247	247	100	Pass
4.5886	235	235	100	Pass
4.6634	216	216	100	Pass
4.7381	209	209	100	Pass
4.8129	197	197	100	Pass
4.8876	186	186	100	Pass
4.9624	178	178	100	Pass
5.0372	171	171	100	Pass
5.1119	163	163	100	Pass
5.1867	151	151	100	Pass
5.2614	145	145	100	Pass
5.3362	140	140	100	Pass
5.4109	130	130	100	Pass
5.4857	126	126	100	Pass
5.5604	119	119	100	Pass
5.6352	112	112	100	Pass
5.7099	103	103	100	Pass
5.7847	98	98	100	Pass
5.8594	92	92	100	Pass
5.9342	89	89	100	Pass
6.0089	88	88	100	Pass
6.0837	83	83	100	Pass
6.1584	79	79	100	Pass
6.2332	76	76	100	Pass
6.3079	73	73	100	Pass
6.3827	68	68	100	Pass
6.4574	65	65	100	Pass
6.5322	61	61	100	Pass
6.6069	57	57	100	Pass
6.6817	53	53	100	Pass
6.7564	49	49	100	Pass
6.8312	48	48	100	Pass
6.9059	48	48	100	Pass
6.9807	46	46	100	Pass
7.0554	43	43	100	Pass
7.1302	41	41	100	Pass
7.2049	38	38	100	Pass

7.2797	37	37	100	Pass
7.3544	36	36	100	Pass
7.4292	35	35	100	Pass
7.5039	32	32	100	Pass
7.5787	29	29	100	Pass
7.6534	26	26	100	Pass
7.7282	23	23	100	Pass
7.8029	23	23	100	Pass
7.8777	23	23	100	Pass
7.9524	21	21	100	Pass
8.0272	19	19	100	Pass
8.1019	17	17	100	Pass
8.1767	16	16	100	Pass
8.2514	15	15	100	Pass
8.3262	14	14	100	Pass
8.4009	13	13	100	Pass
8.4757	11	11	100	Pass
8.5504	11	11	100	Pass
8.6252	11	11	100	Pass
8.6999	11	11	100	Pass
8.7747	10	10	100	Pass
8.8494	9	9	100	Pass
8.9242	9	9	100	Pass
8.9989	8	8	100	Pass
9.0737	7	7	100	Pass
9.1484	6	6	100	Pass
9.2232	6	6	100	Pass
9.2979	6	6	100	Pass
9.3727	5	5	100	Pass
9.4474	5	5	100	Pass
9.5222	5	5	100	Pass
9.5969	4	4	100	Pass
9.6717	4	4	100	Pass
9.7464	4	4	100	Pass
9.8212	3	3	100	Pass
9.8959	2	2	100	Pass
9.9707	2	2	100	Pass
10.0454	1	1	100	Pass
10.1202	0	0	100	Pass
10.1949	0	0	0	Pass
10.2697	0	0	0	Pass
10.3444	0	0	0	Pass
10.4192	0	0	0	Pass
10.4939	0	0	0	Pass
10.5687	0	0	0	Pass
10.6434	0	0	0	Pass
10.7182	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #12

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

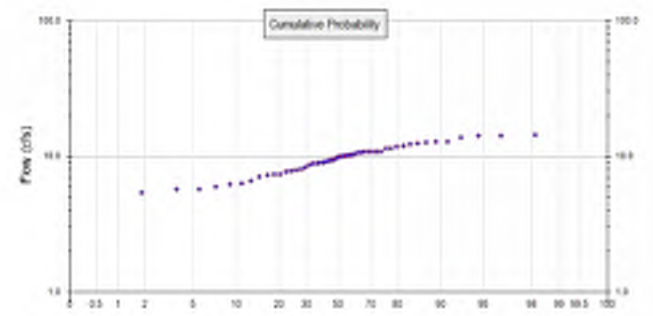
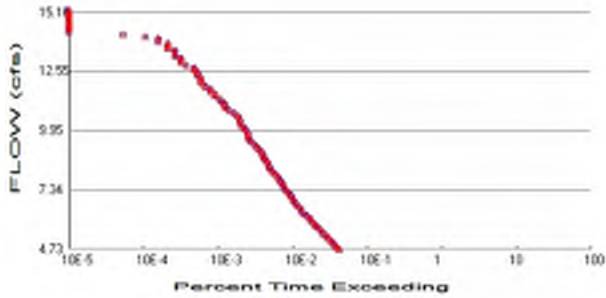
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 13



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #13

Total Pervious Area: 8.21
 Total Impervious Area: 8.4

Mitigated Landuse Totals for POC #13

Total Pervious Area: 8.21
 Total Impervious Area: 8.4

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #13

Return Period	Flow(cfs)
2 year	9.466492
5 year	11.680445
10 year	12.911752
25 year	14.267306
50 year	15.160587
100 year	15.972355

Flow Frequency Return Periods for Mitigated. POC #13

Return Period	Flow(cfs)
2 year	9.466492
5 year	11.680445
10 year	12.911752
25 year	14.267306
50 year	15.160587
100 year	15.972355

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #13

Year	Predeveloped	Mitigated
1956	10.805	10.805
1957	12.734	12.734
1958	9.303	9.303
1959	10.096	10.096
1960	10.673	10.673
1961	7.286	7.286
1962	14.169	14.169
1963	12.806	12.806
1964	10.384	10.384
1965	10.782	10.782
1966	10.857	10.857

1967	6.195	6.195
1968	10.199	10.199
1969	9.973	9.973
1970	8.200	8.200
1971	14.276	14.276
1972	12.329	12.329
1973	10.632	10.632
1974	10.846	10.846
1975	9.144	9.144
1976	11.444	11.444
1977	7.846	7.846
1978	14.072	14.072
1979	8.990	8.990
1980	7.947	7.947
1981	10.195	10.195
1982	11.810	11.810
1983	9.361	9.361
1984	8.911	8.911
1985	5.732	5.732
1986	10.771	10.771
1987	7.351	7.351
1988	11.464	11.464
1989	9.346	9.346
1990	12.891	12.891
1991	7.658	7.658
1992	5.738	5.738
1993	6.276	6.276
1994	8.859	8.859
1995	7.059	7.059
1996	8.957	8.957
1997	10.120	10.120
1998	5.930	5.930
1999	8.015	8.015
2000	7.414	7.414
2001	6.540	6.540
2002	8.567	8.567
2003	13.851	13.851
2004	12.526	12.526
2005	9.624	9.624
2006	9.898	9.898
2007	12.001	12.001
2008	5.413	5.413
2009	4.967	4.967

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #13

Rank	Predeveloped	Mitigated
1	14.2764	14.2764
2	14.1691	14.1691
3	14.0717	14.0717
4	13.8510	13.8510
5	12.8906	12.8906
6	12.8063	12.8063
7	12.7343	12.7343
8	12.5262	12.5262
9	12.3290	12.3290
10	12.0007	12.0007
11	11.8096	11.8096

12	11.4636	11.4636
13	11.4436	11.4436
14	10.8572	10.8572
15	10.8459	10.8459
16	10.8051	10.8051
17	10.7822	10.7822
18	10.7708	10.7708
19	10.6725	10.6725
20	10.6315	10.6315
21	10.3835	10.3835
22	10.1993	10.1993
23	10.1952	10.1952
24	10.1202	10.1202
25	10.0962	10.0962
26	9.9732	9.9732
27	9.8983	9.8983
28	9.6237	9.6237
29	9.3606	9.3606
30	9.3458	9.3458
31	9.3030	9.3030
32	9.1440	9.1440
33	8.9904	8.9904
34	8.9573	8.9573
35	8.9112	8.9112
36	8.8587	8.8587
37	8.5668	8.5668
38	8.2004	8.2004
39	8.0149	8.0149
40	7.9471	7.9471
41	7.8465	7.8465
42	7.6577	7.6577
43	7.4144	7.4144
44	7.3508	7.3508
45	7.2865	7.2865
46	7.0590	7.0590
47	6.5403	6.5403
48	6.2763	6.2763
49	6.1949	6.1949
50	5.9301	5.9301
51	5.7379	5.7379
52	5.7318	5.7318
53	5.4131	5.4131
54	4.9675	4.9675

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
4.7332	789	789	100	Pass
4.8386	736	736	100	Pass
4.9439	687	687	100	Pass
5.0492	639	639	100	Pass
5.1546	593	593	100	Pass
5.2599	559	559	100	Pass
5.3652	523	523	100	Pass
5.4705	481	481	100	Pass
5.5759	450	450	100	Pass
5.6812	413	413	100	Pass
5.7865	381	381	100	Pass
5.8918	360	360	100	Pass
5.9972	341	341	100	Pass
6.1025	322	322	100	Pass
6.2078	296	296	100	Pass
6.3131	270	270	100	Pass
6.4185	250	250	100	Pass
6.5238	243	243	100	Pass
6.6291	222	222	100	Pass
6.7345	211	211	100	Pass
6.8398	202	202	100	Pass
6.9451	191	191	100	Pass
7.0504	181	181	100	Pass
7.1558	174	174	100	Pass
7.2611	164	164	100	Pass
7.3664	154	154	100	Pass
7.4717	145	145	100	Pass
7.5771	141	141	100	Pass
7.6824	133	133	100	Pass
7.7877	128	128	100	Pass
7.8930	122	122	100	Pass
7.9984	113	113	100	Pass
8.1037	107	107	100	Pass
8.2090	98	98	100	Pass
8.3144	94	94	100	Pass
8.4197	92	92	100	Pass
8.5250	89	89	100	Pass
8.6303	84	84	100	Pass
8.7357	79	79	100	Pass
8.8410	78	78	100	Pass
8.9463	74	74	100	Pass
9.0516	71	71	100	Pass
9.1570	65	65	100	Pass
9.2623	62	62	100	Pass
9.3676	58	58	100	Pass
9.4729	52	52	100	Pass
9.5783	50	50	100	Pass
9.6836	48	48	100	Pass
9.7889	48	48	100	Pass
9.8943	47	47	100	Pass
9.9996	44	44	100	Pass
10.1049	42	42	100	Pass
10.2102	38	38	100	Pass

10.3156	38	38	100	Pass
10.4209	37	37	100	Pass
10.5262	36	36	100	Pass
10.6315	34	34	100	Pass
10.7369	31	31	100	Pass
10.8422	27	27	100	Pass
10.9475	24	24	100	Pass
11.0528	23	23	100	Pass
11.1582	23	23	100	Pass
11.2635	21	21	100	Pass
11.3688	20	20	100	Pass
11.4742	17	17	100	Pass
11.5795	17	17	100	Pass
11.6848	15	15	100	Pass
11.7901	15	15	100	Pass
11.8955	13	13	100	Pass
12.0008	12	12	100	Pass
12.1061	11	11	100	Pass
12.2114	11	11	100	Pass
12.3168	11	11	100	Pass
12.4221	10	10	100	Pass
12.5274	10	10	100	Pass
12.6327	9	9	100	Pass
12.7381	9	9	100	Pass
12.8434	7	7	100	Pass
12.9487	6	6	100	Pass
13.0541	6	6	100	Pass
13.1594	6	6	100	Pass
13.2647	5	5	100	Pass
13.3700	5	5	100	Pass
13.4754	5	5	100	Pass
13.5807	4	4	100	Pass
13.6860	4	4	100	Pass
13.7913	4	4	100	Pass
13.8967	3	3	100	Pass
14.0020	3	3	100	Pass
14.1073	2	2	100	Pass
14.2126	1	1	100	Pass
14.3180	0	0	100	Pass
14.4233	0	0	0	Pass
14.5286	0	0	0	Pass
14.6340	0	0	0	Pass
14.7393	0	0	0	Pass
14.8446	0	0	0	Pass
14.9499	0	0	0	Pass
15.0553	0	0	0	Pass
15.1606	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #13

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

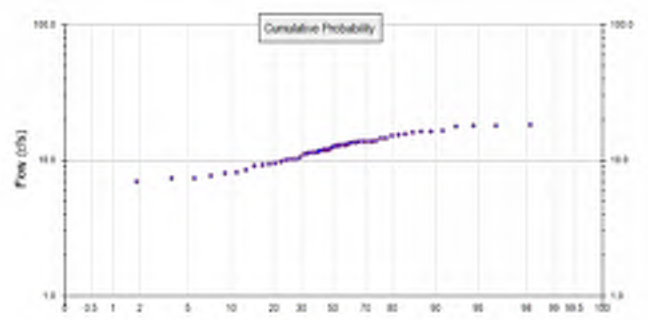
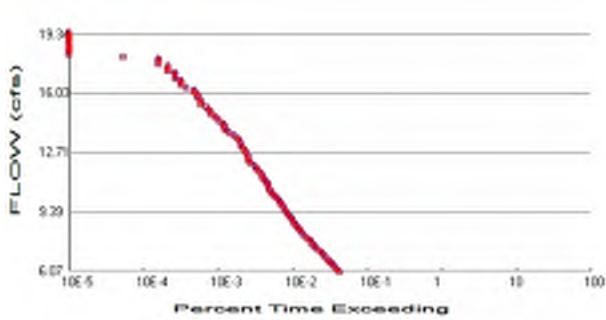
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 14



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #14

Total Pervious Area: 10.03
Total Impervious Area: 11.06

Mitigated Landuse Totals for POC #14

Total Pervious Area: 10.03
Total Impervious Area: 11.06

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #14

Return Period	Flow(cfs)
2 year	12.149069
5 year	14.951262
10 year	16.506771
25 year	18.217111
50 year	19.343071
100 year	20.365569

Flow Frequency Return Periods for Mitigated. POC #14

Return Period	Flow(cfs)
2 year	12.149069
5 year	14.951262
10 year	16.506771
25 year	18.217111
50 year	19.343071
100 year	20.365569

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #14

Year	Predeveloped	Mitigated
1956	13.800	13.800
1957	16.320	16.320
1958	11.964	11.964
1959	12.910	12.910
1960	13.634	13.634
1961	9.319	9.319
1962	18.095	18.095
1963	16.371	16.371
1964	13.328	13.328
1965	13.804	13.804
1966	13.874	13.874

1967	7.971	7.971
1968	13.056	13.056
1969	12.743	12.743
1970	10.572	10.572
1971	18.247	18.247
1972	15.737	15.737
1973	13.639	13.639
1974	13.857	13.857
1975	11.718	11.718
1976	14.645	14.645
1977	10.077	10.077
1978	18.043	18.043
1979	11.515	11.515
1980	10.205	10.205
1981	13.090	13.090
1982	15.158	15.158
1983	12.011	12.011
1984	11.412	11.412
1985	7.424	7.424
1986	13.796	13.796
1987	9.428	9.428
1988	14.678	14.678
1989	11.992	11.992
1990	16.476	16.476
1991	9.819	9.819
1992	7.403	7.403
1993	8.113	8.113
1994	11.365	11.365
1995	9.183	9.183
1996	11.617	11.617
1997	12.999	12.999
1998	7.648	7.648
1999	10.284	10.284
2000	9.519	9.519
2001	8.458	8.458
2002	11.207	11.207
2003	17.686	17.686
2004	16.021	16.021
2005	12.331	12.331
2006	12.675	12.675
2007	15.342	15.342
2008	6.988	6.988
2009	6.425	6.425

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #14

Rank	Predeveloped	Mitigated
1	18.2467	18.2467
2	18.0948	18.0948
3	18.0429	18.0429
4	17.6855	17.6855
5	16.4759	16.4759
6	16.3706	16.3706
7	16.3201	16.3201
8	16.0206	16.0206
9	15.7370	15.7370
10	15.3420	15.3420
11	15.1580	15.1580

12	14.6778	14.6778
13	14.6448	14.6448
14	13.8742	13.8742
15	13.8568	13.8568
16	13.8037	13.8037
17	13.8001	13.8001
18	13.7963	13.7963
19	13.6392	13.6392
20	13.6336	13.6336
21	13.3279	13.3279
22	13.0897	13.0897
23	13.0556	13.0556
24	12.9992	12.9992
25	12.9102	12.9102
26	12.7429	12.7429
27	12.6751	12.6751
28	12.3306	12.3306
29	12.0111	12.0111
30	11.9922	11.9922
31	11.9639	11.9639
32	11.7179	11.7179
33	11.6171	11.6171
34	11.5145	11.5145
35	11.4116	11.4116
36	11.3645	11.3645
37	11.2074	11.2074
38	10.5724	10.5724
39	10.2835	10.2835
40	10.2047	10.2047
41	10.0766	10.0766
42	9.8188	9.8188
43	9.5189	9.5189
44	9.4281	9.4281
45	9.3191	9.3191
46	9.1832	9.1832
47	8.4579	8.4579
48	8.1130	8.1130
49	7.9710	7.9710
50	7.6477	7.6477
51	7.4239	7.4239
52	7.4033	7.4033
53	6.9875	6.9875
54	6.4255	6.4255

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
6.0745	798	798	100	Pass
6.2086	744	744	100	Pass
6.3426	698	698	100	Pass
6.4766	648	648	100	Pass
6.6106	600	600	100	Pass
6.7447	567	567	100	Pass
6.8787	533	533	100	Pass
7.0127	492	492	100	Pass
7.1467	457	457	100	Pass
7.2808	419	419	100	Pass
7.4148	387	387	100	Pass
7.5488	368	368	100	Pass
7.6828	344	344	100	Pass
7.8169	325	325	100	Pass
7.9509	298	298	100	Pass
8.0849	277	277	100	Pass
8.2189	256	256	100	Pass
8.3530	244	244	100	Pass
8.4870	227	227	100	Pass
8.6210	216	216	100	Pass
8.7550	205	205	100	Pass
8.8891	193	193	100	Pass
9.0231	184	184	100	Pass
9.1571	175	175	100	Pass
9.2911	165	165	100	Pass
9.4252	157	157	100	Pass
9.5592	147	147	100	Pass
9.6932	143	143	100	Pass
9.8273	135	135	100	Pass
9.9613	130	130	100	Pass
10.0953	123	123	100	Pass
10.2293	114	114	100	Pass
10.3634	107	107	100	Pass
10.4974	99	99	100	Pass
10.6314	94	94	100	Pass
10.7654	92	92	100	Pass
10.8995	90	90	100	Pass
11.0335	87	87	100	Pass
11.1675	82	82	100	Pass
11.3015	78	78	100	Pass
11.4356	74	74	100	Pass
11.5696	72	72	100	Pass
11.7036	67	67	100	Pass
11.8376	63	63	100	Pass
11.9717	60	60	100	Pass
12.1057	53	53	100	Pass
12.2397	50	50	100	Pass
12.3737	48	48	100	Pass
12.5078	48	48	100	Pass
12.6418	47	47	100	Pass
12.7758	44	44	100	Pass
12.9098	43	43	100	Pass
13.0439	40	40	100	Pass

13.1779	38	38	100	Pass
13.3119	38	38	100	Pass
13.4459	36	36	100	Pass
13.5800	34	34	100	Pass
13.7140	31	31	100	Pass
13.8480	27	27	100	Pass
13.9820	24	24	100	Pass
14.1161	23	23	100	Pass
14.2501	23	23	100	Pass
14.3841	22	22	100	Pass
14.5181	20	20	100	Pass
14.6522	18	18	100	Pass
14.7862	17	17	100	Pass
14.9202	15	15	100	Pass
15.0543	15	15	100	Pass
15.1883	14	14	100	Pass
15.3223	13	13	100	Pass
15.4563	11	11	100	Pass
15.5904	11	11	100	Pass
15.7244	11	11	100	Pass
15.8584	10	10	100	Pass
15.9924	10	10	100	Pass
16.1265	9	9	100	Pass
16.2605	9	9	100	Pass
16.3945	7	7	100	Pass
16.5285	6	6	100	Pass
16.6626	6	6	100	Pass
16.7966	6	6	100	Pass
16.9306	5	5	100	Pass
17.0646	5	5	100	Pass
17.1987	5	5	100	Pass
17.3327	4	4	100	Pass
17.4667	4	4	100	Pass
17.6007	4	4	100	Pass
17.7348	3	3	100	Pass
17.8688	3	3	100	Pass
18.0028	3	3	100	Pass
18.1368	1	1	100	Pass
18.2709	0	0	100	Pass
18.4049	0	0	0	Pass
18.5389	0	0	0	Pass
18.6729	0	0	0	Pass
18.8070	0	0	0	Pass
18.9410	0	0	0	Pass
19.0750	0	0	0	Pass
19.2090	0	0	0	Pass
19.3431	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #14

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

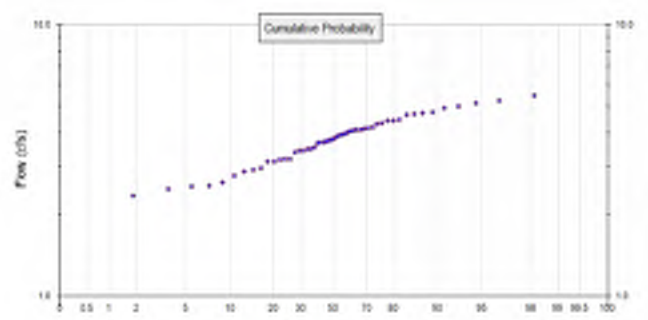
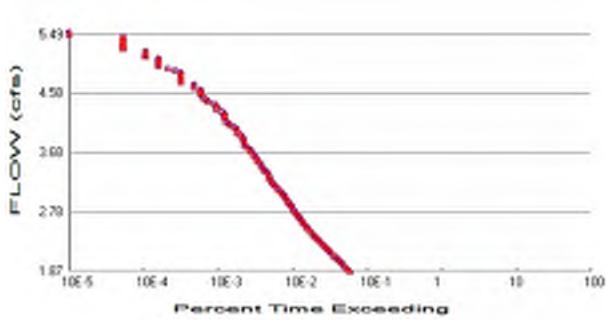
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 15



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #15

Total Pervious Area: 0.65
 Total Impervious Area: 4.75

Mitigated Landuse Totals for POC #15

Total Pervious Area: 0.65
 Total Impervious Area: 4.75

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #15

Return Period	Flow(cfs)
2 year	3.745599
5 year	4.441424
10 year	4.817397
25 year	5.223549
50 year	5.487183
100 year	5.724219

Flow Frequency Return Periods for Mitigated. POC #15

Return Period	Flow(cfs)
2 year	3.745599
5 year	4.441424
10 year	4.817397
25 year	5.223549
50 year	5.487183
100 year	5.724219

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #15

Year	Predeveloped	Mitigated
1956	3.926	3.926
1957	4.914	4.914
1958	3.802	3.802
1959	3.748	3.748
1960	3.892	3.892
1961	3.202	3.202
1962	5.139	5.139
1963	4.727	4.727
1964	4.112	4.112
1965	4.086	4.086
1966	3.984	3.984

1967	2.553	2.553
1968	3.855	3.855
1969	3.650	3.650
1970	3.486	3.486
1971	5.254	5.254
1972	4.431	4.431
1973	4.174	4.174
1974	3.964	3.964
1975	3.524	3.524
1976	4.308	4.308
1977	3.134	3.134
1978	5.475	5.475
1979	3.431	3.431
1980	3.168	3.168
1981	4.055	4.055
1982	4.675	4.675
1983	3.687	3.687
1984	3.393	3.393
1985	2.612	2.612
1986	4.118	4.118
1987	2.875	2.875
1988	4.353	4.353
1989	3.682	3.682
1990	4.746	4.746
1991	3.140	3.140
1992	2.468	2.468
1993	2.777	2.777
1994	3.477	3.477
1995	3.423	3.423
1996	4.161	4.161
1997	4.055	4.055
1998	2.533	2.533
1999	3.206	3.206
2000	2.946	2.946
2001	2.912	2.912
2002	4.475	4.475
2003	5.008	5.008
2004	4.665	4.665
2005	3.699	3.699
2006	3.766	3.766
2007	4.436	4.436
2008	2.346	2.346
2009	2.220	2.220

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #15

Rank	Predeveloped	Mitigated
1	5.4748	5.4748
2	5.2542	5.2542
3	5.1394	5.1394
4	5.0077	5.0077
5	4.9137	4.9137
6	4.7461	4.7461
7	4.7273	4.7273
8	4.6752	4.6752
9	4.6653	4.6653
10	4.4746	4.4746
11	4.4362	4.4362

12	4.4311	4.4311
13	4.3528	4.3528
14	4.3078	4.3078
15	4.1741	4.1741
16	4.1605	4.1605
17	4.1184	4.1184
18	4.1124	4.1124
19	4.0858	4.0858
20	4.0554	4.0554
21	4.0549	4.0549
22	3.9835	3.9835
23	3.9645	3.9645
24	3.9263	3.9263
25	3.8920	3.8920
26	3.8552	3.8552
27	3.8017	3.8017
28	3.7664	3.7664
29	3.7476	3.7476
30	3.6985	3.6985
31	3.6870	3.6870
32	3.6817	3.6817
33	3.6504	3.6504
34	3.5241	3.5241
35	3.4861	3.4861
36	3.4766	3.4766
37	3.4309	3.4309
38	3.4226	3.4226
39	3.3928	3.3928
40	3.2056	3.2056
41	3.2021	3.2021
42	3.1675	3.1675
43	3.1401	3.1401
44	3.1336	3.1336
45	2.9462	2.9462
46	2.9120	2.9120
47	2.8746	2.8746
48	2.7769	2.7769
49	2.6117	2.6117
50	2.5529	2.5529
51	2.5327	2.5327
52	2.4684	2.4684
53	2.3458	2.3458
54	2.2201	2.2201

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.8728	1097	1097	100	Pass
1.9093	1026	1026	100	Pass
1.9458	955	955	100	Pass
1.9823	881	881	100	Pass
2.0188	830	830	100	Pass
2.0553	768	768	100	Pass
2.0919	711	711	100	Pass
2.1284	658	658	100	Pass
2.1649	607	607	100	Pass
2.2014	563	563	100	Pass
2.2379	526	526	100	Pass
2.2744	490	490	100	Pass
2.3109	462	462	100	Pass
2.3474	422	422	100	Pass
2.3839	395	395	100	Pass
2.4204	368	368	100	Pass
2.4569	344	344	100	Pass
2.4935	318	318	100	Pass
2.5300	299	299	100	Pass
2.5665	285	285	100	Pass
2.6030	267	267	100	Pass
2.6395	255	255	100	Pass
2.6760	238	238	100	Pass
2.7125	227	227	100	Pass
2.7490	215	215	100	Pass
2.7855	201	201	100	Pass
2.8220	194	194	100	Pass
2.8585	184	184	100	Pass
2.8950	174	174	100	Pass
2.9316	166	166	100	Pass
2.9681	159	159	100	Pass
3.0046	150	150	100	Pass
3.0411	142	142	100	Pass
3.0776	135	135	100	Pass
3.1141	126	126	100	Pass
3.1506	116	116	100	Pass
3.1871	108	108	100	Pass
3.2236	100	100	100	Pass
3.2601	98	98	100	Pass
3.2966	93	93	100	Pass
3.3332	91	91	100	Pass
3.3697	89	89	100	Pass
3.4062	81	81	100	Pass
3.4427	77	77	100	Pass
3.4792	73	73	100	Pass
3.5157	70	70	100	Pass
3.5522	64	64	100	Pass
3.5887	63	63	100	Pass
3.6252	60	60	100	Pass
3.6617	57	57	100	Pass
3.6982	53	53	100	Pass
3.7348	51	51	100	Pass
3.7713	46	46	100	Pass

3.8078	43	43	100	Pass
3.8443	43	43	100	Pass
3.8808	42	42	100	Pass
3.9173	40	40	100	Pass
3.9538	38	38	100	Pass
3.9903	34	34	100	Pass
4.0268	34	34	100	Pass
4.0633	32	32	100	Pass
4.0998	28	28	100	Pass
4.1364	26	26	100	Pass
4.1729	24	24	100	Pass
4.2094	23	23	100	Pass
4.2459	23	23	100	Pass
4.2824	23	23	100	Pass
4.3189	21	21	100	Pass
4.3554	18	18	100	Pass
4.3919	18	18	100	Pass
4.4284	17	17	100	Pass
4.4649	14	14	100	Pass
4.5014	13	13	100	Pass
4.5380	12	12	100	Pass
4.5745	11	11	100	Pass
4.6110	11	11	100	Pass
4.6475	11	11	100	Pass
4.6840	9	9	100	Pass
4.7205	9	9	100	Pass
4.7570	6	6	100	Pass
4.7935	6	6	100	Pass
4.8300	6	6	100	Pass
4.8665	6	6	100	Pass
4.9030	6	6	100	Pass
4.9395	5	5	100	Pass
4.9761	4	4	100	Pass
5.0126	3	3	100	Pass
5.0491	3	3	100	Pass
5.0856	3	3	100	Pass
5.1221	3	3	100	Pass
5.1586	2	2	100	Pass
5.1951	2	2	100	Pass
5.2316	2	2	100	Pass
5.2681	1	1	100	Pass
5.3046	1	1	100	Pass
5.3411	1	1	100	Pass
5.3777	1	1	100	Pass
5.4142	1	1	100	Pass
5.4507	1	1	100	Pass
5.4872	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #15

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

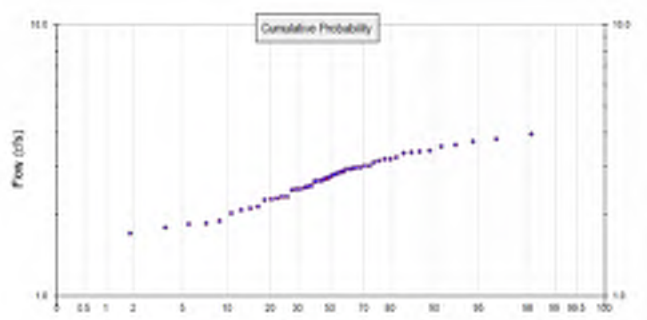
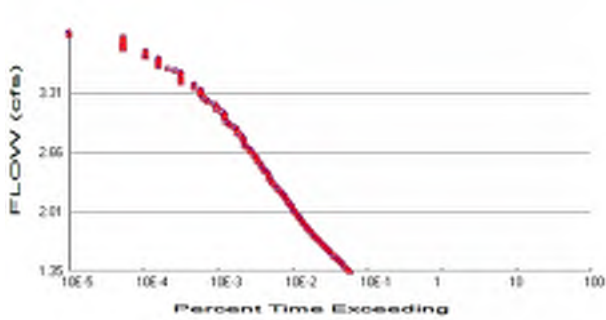
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 16



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #16

Total Pervious Area: 0.46
 Total Impervious Area: 3.44

Mitigated Landuse Totals for POC #16

Total Pervious Area: 0.46
 Total Impervious Area: 3.44

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #16

Return Period	Flow(cfs)
2 year	2.708284
5 year	3.210822
10 year	3.482322
25 year	3.775588
50 year	3.965935
100 year	4.137069

Flow Frequency Return Periods for Mitigated. POC #16

Return Period	Flow(cfs)
2 year	2.708284
5 year	3.210822
10 year	3.482322
25 year	3.775588
50 year	3.965935
100 year	4.137069

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #16

Year	Predeveloped	Mitigated
1956	2.838	2.838
1957	3.552	3.552
1958	2.749	2.749
1959	2.709	2.709
1960	2.813	2.813
1961	2.317	2.317
1962	3.714	3.714
1963	3.417	3.417
1964	2.974	2.974
1965	2.954	2.954
1966	2.879	2.879

1967	1.846	1.846
1968	2.787	2.787
1969	2.638	2.638
1970	2.522	2.522
1971	3.798	3.798
1972	3.202	3.202
1973	3.018	3.018
1974	2.865	2.865
1975	2.548	2.548
1976	3.114	3.114
1977	2.266	2.266
1978	3.958	3.958
1979	2.480	2.480
1980	2.290	2.290
1981	2.932	2.932
1982	3.380	3.380
1983	2.666	2.666
1984	2.453	2.453
1985	1.890	1.890
1986	2.977	2.977
1987	2.078	2.078
1988	3.147	3.147
1989	2.662	2.662
1990	3.430	3.430
1991	2.273	2.273
1992	1.786	1.786
1993	2.009	2.009
1994	2.514	2.514
1995	2.477	2.477
1996	3.011	3.011
1997	2.932	2.932
1998	1.832	1.832
1999	2.318	2.318
2000	2.130	2.130
2001	2.107	2.107
2002	3.240	3.240
2003	3.619	3.619
2004	3.372	3.372
2005	2.674	2.674
2006	2.723	2.723
2007	3.206	3.206
2008	1.697	1.697
2009	1.606	1.606

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #16

Rank	Predeveloped	Mitigated
1	3.9582	3.9582
2	3.7976	3.7976
3	3.7143	3.7143
4	3.6190	3.6190
5	3.5524	3.5524
6	3.4304	3.4304
7	3.4168	3.4168
8	3.3804	3.3804
9	3.3722	3.3722
10	3.2395	3.2395
11	3.2064	3.2064

12	3.2022	3.2022
13	3.1466	3.1466
14	3.1139	3.1139
15	3.0180	3.0180
16	3.0107	3.0107
17	2.9773	2.9773
18	2.9735	2.9735
19	2.9536	2.9536
20	2.9324	2.9324
21	2.9321	2.9321
22	2.8791	2.8791
23	2.8653	2.8653
24	2.8376	2.8376
25	2.8129	2.8129
26	2.7868	2.7868
27	2.7493	2.7493
28	2.7227	2.7227
29	2.7087	2.7087
30	2.6738	2.6738
31	2.6659	2.6659
32	2.6620	2.6620
33	2.6383	2.6383
34	2.5477	2.5477
35	2.5215	2.5215
36	2.5137	2.5137
37	2.4803	2.4803
38	2.4771	2.4771
39	2.4527	2.4527
40	2.3180	2.3180
41	2.3167	2.3167
42	2.2904	2.2904
43	2.2726	2.2726
44	2.2659	2.2659
45	2.1303	2.1303
46	2.1068	2.1068
47	2.0784	2.0784
48	2.0090	2.0090
49	1.8897	1.8897
50	1.8463	1.8463
51	1.8320	1.8320
52	1.7856	1.7856
53	1.6970	1.6970
54	1.6063	1.6063

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.3541	1099	1099	100	Pass
1.3805	1028	1028	100	Pass
1.4069	958	958	100	Pass
1.4333	885	885	100	Pass
1.4597	831	831	100	Pass
1.4861	768	768	100	Pass
1.5124	714	714	100	Pass
1.5388	658	658	100	Pass
1.5652	607	607	100	Pass
1.5916	563	563	100	Pass
1.6180	530	530	100	Pass
1.6443	493	493	100	Pass
1.6707	462	462	100	Pass
1.6971	423	423	100	Pass
1.7235	395	395	100	Pass
1.7499	368	368	100	Pass
1.7762	344	344	100	Pass
1.8026	320	320	100	Pass
1.8290	299	299	100	Pass
1.8554	285	285	100	Pass
1.8818	267	267	100	Pass
1.9082	256	256	100	Pass
1.9345	239	239	100	Pass
1.9609	228	228	100	Pass
1.9873	217	217	100	Pass
2.0137	203	203	100	Pass
2.0401	194	194	100	Pass
2.0664	185	185	100	Pass
2.0928	174	174	100	Pass
2.1192	167	167	100	Pass
2.1456	159	159	100	Pass
2.1720	151	151	100	Pass
2.1984	142	142	100	Pass
2.2247	136	136	100	Pass
2.2511	127	127	100	Pass
2.2775	116	116	100	Pass
2.3039	109	109	100	Pass
2.3303	101	101	100	Pass
2.3566	98	98	100	Pass
2.3830	93	93	100	Pass
2.4094	91	91	100	Pass
2.4358	89	89	100	Pass
2.4622	81	81	100	Pass
2.4886	77	77	100	Pass
2.5149	73	73	100	Pass
2.5413	70	70	100	Pass
2.5677	64	64	100	Pass
2.5941	63	63	100	Pass
2.6205	61	61	100	Pass
2.6468	57	57	100	Pass
2.6732	53	53	100	Pass
2.6996	51	51	100	Pass
2.7260	46	46	100	Pass

2.7524	43	43	100	Pass
2.7788	43	43	100	Pass
2.8051	42	42	100	Pass
2.8315	40	40	100	Pass
2.8579	38	38	100	Pass
2.8843	34	34	100	Pass
2.9107	34	34	100	Pass
2.9370	32	32	100	Pass
2.9634	28	28	100	Pass
2.9898	26	26	100	Pass
3.0162	24	24	100	Pass
3.0426	23	23	100	Pass
3.0690	23	23	100	Pass
3.0953	23	23	100	Pass
3.1217	21	21	100	Pass
3.1481	18	18	100	Pass
3.1745	18	18	100	Pass
3.2009	17	17	100	Pass
3.2272	14	14	100	Pass
3.2536	13	13	100	Pass
3.2800	12	12	100	Pass
3.3064	11	11	100	Pass
3.3328	11	11	100	Pass
3.3592	11	11	100	Pass
3.3855	9	9	100	Pass
3.4119	9	9	100	Pass
3.4383	6	6	100	Pass
3.4647	6	6	100	Pass
3.4911	6	6	100	Pass
3.5174	6	6	100	Pass
3.5438	6	6	100	Pass
3.5702	5	5	100	Pass
3.5966	4	4	100	Pass
3.6230	3	3	100	Pass
3.6494	3	3	100	Pass
3.6757	3	3	100	Pass
3.7021	3	3	100	Pass
3.7285	2	2	100	Pass
3.7549	2	2	100	Pass
3.7813	2	2	100	Pass
3.8076	1	1	100	Pass
3.8340	1	1	100	Pass
3.8604	1	1	100	Pass
3.8868	1	1	100	Pass
3.9132	1	1	100	Pass
3.9396	1	1	100	Pass
3.9659	0	0	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #16

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

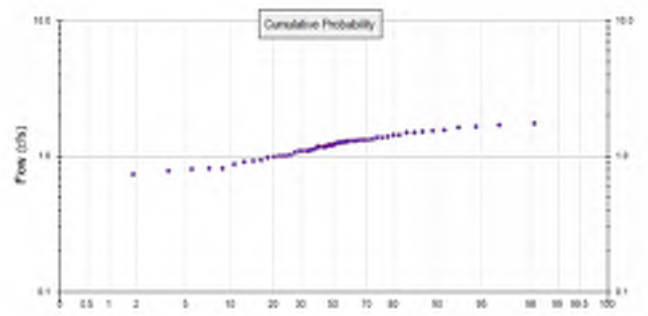
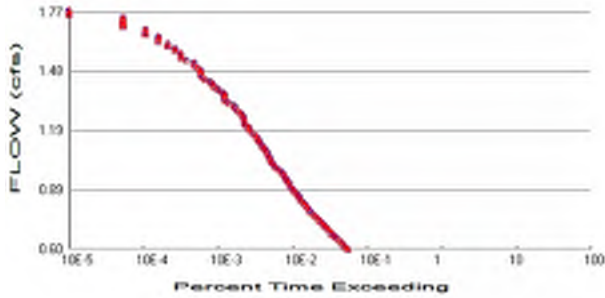
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 17



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #17

Total Pervious Area: 0.33
Total Impervious Area: 1.45

Mitigated Landuse Totals for POC #17

Total Pervious Area: 0.33
Total Impervious Area: 1.45

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #17

Return Period	Flow(cfs)
2 year	1.196246
5 year	1.425902
10 year	1.550464
25 year	1.685358
50 year	1.773093
100 year	1.852086

Flow Frequency Return Periods for Mitigated. POC #17

Return Period	Flow(cfs)
2 year	1.196246
5 year	1.425902
10 year	1.550464
25 year	1.685358
50 year	1.773093
100 year	1.852086

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #17

Year	Predeveloped	Mitigated
1956	1.271	1.271
1957	1.575	1.575
1958	1.209	1.209
1959	1.209	1.209
1960	1.259	1.259
1961	1.006	1.006
1962	1.664	1.664
1963	1.526	1.526
1964	1.313	1.313
1965	1.314	1.314
1966	1.287	1.287

1967	0.811	0.811
1968	1.240	1.240
1969	1.180	1.180
1970	1.102	1.102
1971	1.697	1.697
1972	1.436	1.436
1973	1.335	1.335
1974	1.282	1.282
1975	1.130	1.130
1976	1.386	1.386
1977	1.000	1.000
1978	1.753	1.753
1979	1.102	1.102
1980	1.011	1.011
1981	1.294	1.294
1982	1.493	1.493
1983	1.178	1.178
1984	1.090	1.090
1985	0.818	0.818
1986	1.322	1.322
1987	0.920	0.920
1988	1.399	1.399
1989	1.177	1.177
1990	1.533	1.533
1991	0.977	0.977
1992	0.779	0.779
1993	0.873	0.873
1994	1.112	1.112
1995	1.064	1.064
1996	1.300	1.300
1997	1.293	1.293
1998	0.800	0.800
1999	1.022	1.022
2000	0.940	0.940
2001	0.915	0.915
2002	1.378	1.378
2003	1.622	1.622
2004	1.504	1.504
2005	1.186	1.186
2006	1.210	1.210
2007	1.432	1.432
2008	0.740	0.740
2009	0.697	0.697

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #17

Rank	Predeveloped	Mitigated
1	1.7531	1.7531
2	1.6968	1.6968
3	1.6636	1.6636
4	1.6218	1.6218
5	1.5754	1.5754
6	1.5326	1.5326
7	1.5259	1.5259
8	1.5038	1.5038
9	1.4932	1.4932
10	1.4364	1.4364
11	1.4316	1.4316

12	1.3989	1.3989
13	1.3863	1.3863
14	1.3781	1.3781
15	1.3348	1.3348
16	1.3222	1.3222
17	1.3135	1.3135
18	1.3133	1.3133
19	1.2999	1.2999
20	1.2943	1.2943
21	1.2928	1.2928
22	1.2871	1.2871
23	1.2817	1.2817
24	1.2705	1.2705
25	1.2587	1.2587
26	1.2399	1.2399
27	1.2101	1.2101
28	1.2086	1.2086
29	1.2086	1.2086
30	1.1865	1.1865
31	1.1799	1.1799
32	1.1784	1.1784
33	1.1767	1.1767
34	1.1300	1.1300
35	1.1118	1.1118
36	1.1021	1.1021
37	1.1018	1.1018
38	1.0900	1.0900
39	1.0636	1.0636
40	1.0217	1.0217
41	1.0106	1.0106
42	1.0056	1.0056
43	0.9995	0.9995
44	0.9767	0.9767
45	0.9405	0.9405
46	0.9198	0.9198
47	0.9149	0.9149
48	0.8731	0.8731
49	0.8180	0.8180
50	0.8106	0.8106
51	0.8002	0.8002
52	0.7791	0.7791
53	0.7397	0.7397
54	0.6971	0.6971

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.5981	1042	1042	100	Pass
0.6100	972	972	100	Pass
0.6219	904	904	100	Pass
0.6337	840	840	100	Pass
0.6456	782	782	100	Pass
0.6575	721	721	100	Pass
0.6693	664	664	100	Pass
0.6812	617	617	100	Pass
0.6931	569	569	100	Pass
0.7049	540	540	100	Pass
0.7168	505	505	100	Pass
0.7287	473	473	100	Pass
0.7405	438	438	100	Pass
0.7524	405	405	100	Pass
0.7643	377	377	100	Pass
0.7761	352	352	100	Pass
0.7880	323	323	100	Pass
0.7999	308	308	100	Pass
0.8118	288	288	100	Pass
0.8236	274	274	100	Pass
0.8355	255	255	100	Pass
0.8474	242	242	100	Pass
0.8592	230	230	100	Pass
0.8711	219	219	100	Pass
0.8830	204	204	100	Pass
0.8948	194	194	100	Pass
0.9067	181	181	100	Pass
0.9186	173	173	100	Pass
0.9304	168	168	100	Pass
0.9423	157	157	100	Pass
0.9542	154	154	100	Pass
0.9660	144	144	100	Pass
0.9779	137	137	100	Pass
0.9898	130	130	100	Pass
1.0016	116	116	100	Pass
1.0135	108	108	100	Pass
1.0254	100	100	100	Pass
1.0373	96	96	100	Pass
1.0491	95	95	100	Pass
1.0610	91	91	100	Pass
1.0729	88	88	100	Pass
1.0847	85	85	100	Pass
1.0966	81	81	100	Pass
1.1085	75	75	100	Pass
1.1203	71	71	100	Pass
1.1322	68	68	100	Pass
1.1441	64	64	100	Pass
1.1559	63	63	100	Pass
1.1678	59	59	100	Pass
1.1797	54	54	100	Pass
1.1915	49	49	100	Pass
1.2034	49	49	100	Pass
1.2153	44	44	100	Pass

1.2271	43	43	100	Pass
1.2390	43	43	100	Pass
1.2509	42	42	100	Pass
1.2628	40	40	100	Pass
1.2746	38	38	100	Pass
1.2865	35	35	100	Pass
1.2984	32	32	100	Pass
1.3102	31	31	100	Pass
1.3221	27	27	100	Pass
1.3340	24	24	100	Pass
1.3458	23	23	100	Pass
1.3577	23	23	100	Pass
1.3696	23	23	100	Pass
1.3814	21	21	100	Pass
1.3933	19	19	100	Pass
1.4052	17	17	100	Pass
1.4170	16	16	100	Pass
1.4289	15	15	100	Pass
1.4408	13	13	100	Pass
1.4526	12	12	100	Pass
1.4645	11	11	100	Pass
1.4764	11	11	100	Pass
1.4883	11	11	100	Pass
1.5001	10	10	100	Pass
1.5120	9	9	100	Pass
1.5239	9	9	100	Pass
1.5357	7	7	100	Pass
1.5476	6	6	100	Pass
1.5595	6	6	100	Pass
1.5713	6	6	100	Pass
1.5832	5	5	100	Pass
1.5951	5	5	100	Pass
1.6069	4	4	100	Pass
1.6188	4	4	100	Pass
1.6307	3	3	100	Pass
1.6425	3	3	100	Pass
1.6544	3	3	100	Pass
1.6663	2	2	100	Pass
1.6781	2	2	100	Pass
1.6900	2	2	100	Pass
1.7019	1	1	100	Pass
1.7138	1	1	100	Pass
1.7256	1	1	100	Pass
1.7375	1	1	100	Pass
1.7494	1	1	100	Pass
1.7612	0	0	100	Pass
1.7731	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #17

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

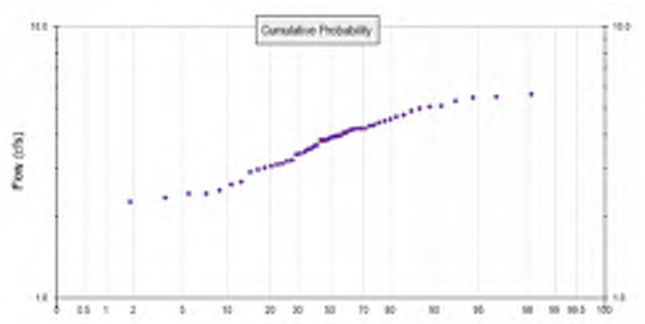
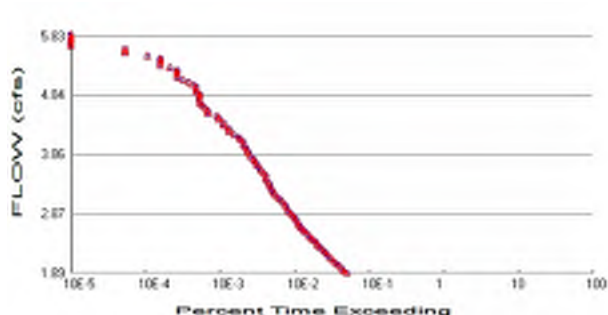
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 18



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #18

Total Pervious Area: 3.43
 Total Impervious Area: 4.15

Mitigated Landuse Totals for POC #18

Total Pervious Area: 3.43
 Total Impervious Area: 4.15

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #18

Return Period	Flow(cfs)
2 year	3.774254
5 year	4.582285
10 year	5.026438
25 year	5.511663
50 year	5.82946
100 year	6.117009

Flow Frequency Return Periods for Mitigated. POC #18

Return Period	Flow(cfs)
2 year	3.774254
5 year	4.582285
10 year	5.026438
25 year	5.511663
50 year	5.82946
100 year	6.117009

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #18

Year	Predeveloped	Mitigated
1956	4.209	4.209
1957	5.096	5.096
1958	3.810	3.810
1959	3.822	3.822
1960	4.069	4.069
1961	2.977	2.977
1962	5.522	5.522
1963	5.056	5.056
1964	4.080	4.080
1965	4.340	4.340
1966	4.170	4.170

1967	2.500	2.500
1968	3.972	3.972
1969	3.916	3.916
1970	3.384	3.384
1971	5.492	5.492
1972	4.899	4.899
1973	4.293	4.293
1974	4.223	4.223
1975	3.559	3.559
1976	4.484	4.484
1977	3.107	3.107
1978	5.638	5.638
1979	3.539	3.539
1980	3.131	3.131
1981	4.172	4.172
1982	4.657	4.657
1983	3.830	3.830
1984	3.417	3.417
1985	2.431	2.431
1986	4.228	4.228
1987	2.919	2.919
1988	4.416	4.416
1989	3.665	3.665
1990	5.006	5.006
1991	3.221	3.221
1992	2.337	2.337
1993	2.612	2.612
1994	3.456	3.456
1995	3.074	3.074
1996	3.844	3.844
1997	3.953	3.953
1998	2.430	2.430
1999	3.194	3.194
2000	3.016	3.016
2001	2.670	2.670
2002	3.965	3.965
2003	5.345	5.345
2004	4.712	4.712
2005	3.641	3.641
2006	3.910	3.910
2007	4.553	4.553
2008	2.262	2.262
2009	2.092	2.092

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #18

Rank	Predeveloped	Mitigated
1	5.6383	5.6383
2	5.5220	5.5220
3	5.4916	5.4916
4	5.3451	5.3451
5	5.0957	5.0957
6	5.0555	5.0555
7	5.0062	5.0062
8	4.8987	4.8987
9	4.7120	4.7120
10	4.6574	4.6574
11	4.5534	4.5534

12	4.4836	4.4836
13	4.4160	4.4160
14	4.3397	4.3397
15	4.2931	4.2931
16	4.2279	4.2279
17	4.2231	4.2231
18	4.2089	4.2089
19	4.1718	4.1718
20	4.1697	4.1697
21	4.0805	4.0805
22	4.0694	4.0694
23	3.9722	3.9722
24	3.9646	3.9646
25	3.9533	3.9533
26	3.9164	3.9164
27	3.9103	3.9103
28	3.8438	3.8438
29	3.8302	3.8302
30	3.8225	3.8225
31	3.8103	3.8103
32	3.6646	3.6646
33	3.6408	3.6408
34	3.5587	3.5587
35	3.5388	3.5388
36	3.4563	3.4563
37	3.4168	3.4168
38	3.3841	3.3841
39	3.2211	3.2211
40	3.1936	3.1936
41	3.1307	3.1307
42	3.1074	3.1074
43	3.0738	3.0738
44	3.0158	3.0158
45	2.9769	2.9769
46	2.9188	2.9188
47	2.6702	2.6702
48	2.6120	2.6120
49	2.5004	2.5004
50	2.4308	2.4308
51	2.4303	2.4303
52	2.3365	2.3365
53	2.2624	2.2624
54	2.0917	2.0917

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.8871	949	949	100	Pass
1.9269	867	867	100	Pass
1.9668	816	816	100	Pass
2.0066	747	747	100	Pass
2.0464	684	684	100	Pass
2.0862	632	632	100	Pass
2.1261	593	593	100	Pass
2.1659	555	555	100	Pass
2.2057	512	512	100	Pass
2.2455	478	478	100	Pass
2.2853	449	449	100	Pass
2.3252	411	411	100	Pass
2.3650	383	383	100	Pass
2.4048	359	359	100	Pass
2.4446	333	333	100	Pass
2.4845	310	310	100	Pass
2.5243	290	290	100	Pass
2.5641	261	261	100	Pass
2.6039	246	246	100	Pass
2.6437	228	228	100	Pass
2.6836	219	219	100	Pass
2.7234	207	207	100	Pass
2.7632	200	200	100	Pass
2.8030	191	191	100	Pass
2.8428	181	181	100	Pass
2.8827	168	168	100	Pass
2.9225	155	155	100	Pass
2.9623	149	149	100	Pass
3.0021	144	144	100	Pass
3.0420	138	138	100	Pass
3.0818	129	129	100	Pass
3.1216	118	118	100	Pass
3.1614	109	109	100	Pass
3.2012	102	102	100	Pass
3.2411	98	98	100	Pass
3.2809	94	94	100	Pass
3.3207	90	90	100	Pass
3.3605	87	87	100	Pass
3.4003	85	85	100	Pass
3.4402	80	80	100	Pass
3.4800	78	78	100	Pass
3.5198	77	77	100	Pass
3.5596	72	72	100	Pass
3.5995	67	67	100	Pass
3.6393	65	65	100	Pass
3.6791	59	59	100	Pass
3.7189	58	58	100	Pass
3.7587	54	54	100	Pass
3.7986	53	53	100	Pass
3.8384	48	48	100	Pass
3.8782	46	46	100	Pass
3.9180	44	44	100	Pass
3.9578	43	43	100	Pass

3.9977	41	41	100	Pass
4.0375	39	39	100	Pass
4.0773	38	38	100	Pass
4.1171	35	35	100	Pass
4.1570	34	34	100	Pass
4.1968	29	29	100	Pass
4.2366	25	25	100	Pass
4.2764	25	25	100	Pass
4.3162	24	24	100	Pass
4.3561	21	21	100	Pass
4.3959	21	21	100	Pass
4.4357	18	18	100	Pass
4.4755	18	18	100	Pass
4.5153	17	17	100	Pass
4.5552	13	13	100	Pass
4.5950	13	13	100	Pass
4.6348	12	12	100	Pass
4.6746	11	11	100	Pass
4.7145	10	10	100	Pass
4.7543	10	10	100	Pass
4.7941	10	10	100	Pass
4.8339	10	10	100	Pass
4.8737	10	10	100	Pass
4.9136	9	9	100	Pass
4.9534	9	9	100	Pass
4.9932	9	9	100	Pass
5.0330	8	8	100	Pass
5.0729	7	7	100	Pass
5.1127	6	6	100	Pass
5.1525	5	5	100	Pass
5.1923	5	5	100	Pass
5.2321	5	5	100	Pass
5.2720	5	5	100	Pass
5.3118	4	4	100	Pass
5.3516	3	3	100	Pass
5.3914	3	3	100	Pass
5.4312	3	3	100	Pass
5.4711	3	3	100	Pass
5.5109	2	2	100	Pass
5.5507	1	1	100	Pass
5.5905	1	1	100	Pass
5.6304	1	1	100	Pass
5.6702	0	0	100	Pass
5.7100	0	0	0	Pass
5.7498	0	0	0	Pass
5.7896	0	0	0	Pass
5.8295	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #18

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

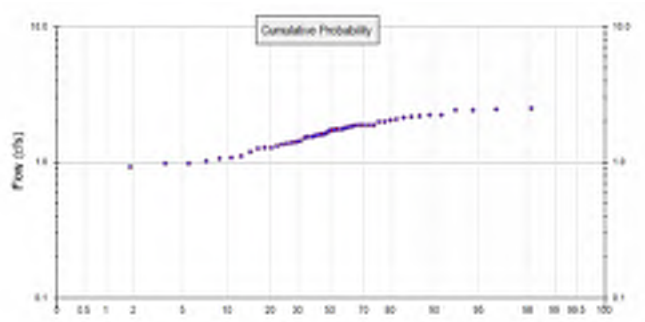
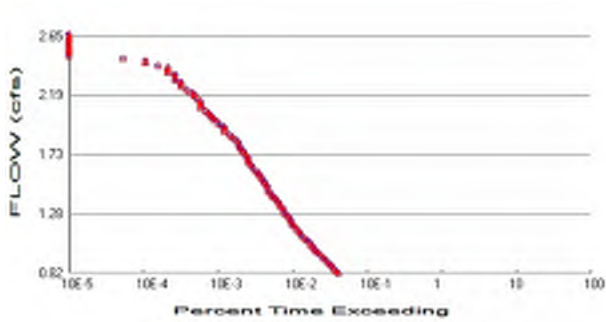
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 19



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #19

Total Pervious Area: 1.52
Total Impervious Area: 1.4

Mitigated Landuse Totals for POC #19

Total Pervious Area: 1.52
Total Impervious Area: 1.4

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #19

Return Period	Flow(cfs)
2 year	1.639064
5 year	2.030177
10 year	2.248304
25 year	2.48888
50 year	2.647645
100 year	2.792072

Flow Frequency Return Periods for Mitigated. POC #19

Return Period	Flow(cfs)
2 year	1.639064
5 year	2.030177
10 year	2.248304
25 year	2.48888
50 year	2.647645
100 year	2.792072

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #19

Year	Predeveloped	Mitigated
1956	1.884	1.884
1957	2.209	2.209
1958	1.606	1.606
1959	1.757	1.757
1960	1.860	1.860
1961	1.268	1.268
1962	2.471	2.471
1963	2.230	2.230
1964	1.797	1.797
1965	1.873	1.873
1966	1.891	1.891

1967	1.069	1.069
1968	1.773	1.773
1969	1.738	1.738
1970	1.410	1.410
1971	2.486	2.486
1972	2.151	2.151
1973	1.842	1.842
1974	1.890	1.890
1975	1.587	1.587
1976	1.989	1.989
1977	1.357	1.357
1978	2.440	2.440
1979	1.561	1.561
1980	1.379	1.379
1981	1.764	1.764
1982	2.044	2.044
1983	1.621	1.621
1984	1.548	1.548
1985	0.979	0.979
1986	1.870	1.870
1987	1.274	1.274
1988	1.991	1.991
1989	1.619	1.619
1990	2.245	2.245
1991	1.328	1.328
1992	0.986	0.986
1993	1.075	1.075
1994	1.535	1.535
1995	1.198	1.198
1996	1.527	1.527
1997	1.750	1.750
1998	1.020	1.020
1999	1.388	1.388
2000	1.283	1.283
2001	1.120	1.120
2002	1.442	1.442
2003	2.416	2.416
2004	2.180	2.180
2005	1.670	1.670
2006	1.719	1.719
2007	2.089	2.089
2008	0.929	0.929
2009	0.850	0.850

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #19

Rank	Predeveloped	Mitigated
1	2.4865	2.4865
2	2.4706	2.4706
3	2.4396	2.4396
4	2.4158	2.4158
5	2.2450	2.2450
6	2.2299	2.2299
7	2.2093	2.2093
8	2.1796	2.1796
9	2.1514	2.1514
10	2.0894	2.0894
11	2.0443	2.0443

12	1.9915	1.9915
13	1.9894	1.9894
14	1.8914	1.8914
15	1.8900	1.8900
16	1.8838	1.8838
17	1.8734	1.8734
18	1.8701	1.8701
19	1.8602	1.8602
20	1.8417	1.8417
21	1.7974	1.7974
22	1.7725	1.7725
23	1.7641	1.7641
24	1.7572	1.7572
25	1.7501	1.7501
26	1.7378	1.7378
27	1.7193	1.7193
28	1.6702	1.6702
29	1.6211	1.6211
30	1.6185	1.6185
31	1.6059	1.6059
32	1.5866	1.5866
33	1.5612	1.5612
34	1.5477	1.5477
35	1.5347	1.5347
36	1.5273	1.5273
37	1.4419	1.4419
38	1.4105	1.4105
39	1.3882	1.3882
40	1.3789	1.3789
41	1.3573	1.3573
42	1.3276	1.3276
43	1.2831	1.2831
44	1.2738	1.2738
45	1.2679	1.2679
46	1.1981	1.1981
47	1.1199	1.1199
48	1.0754	1.0754
49	1.0686	1.0686
50	1.0195	1.0195
51	0.9858	0.9858
52	0.9792	0.9792
53	0.9293	0.9293
54	0.8503	0.8503

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.8195	769	769	100	Pass
0.8380	723	723	100	Pass
0.8565	671	671	100	Pass
0.8749	630	630	100	Pass
0.8934	585	585	100	Pass
0.9119	550	550	100	Pass
0.9303	511	511	100	Pass
0.9488	474	474	100	Pass
0.9673	431	431	100	Pass
0.9857	395	395	100	Pass
1.0042	375	375	100	Pass
1.0227	357	357	100	Pass
1.0411	333	333	100	Pass
1.0596	318	318	100	Pass
1.0781	291	291	100	Pass
1.0965	269	269	100	Pass
1.1150	248	248	100	Pass
1.1335	235	235	100	Pass
1.1519	217	217	100	Pass
1.1704	209	209	100	Pass
1.1888	197	197	100	Pass
1.2073	186	186	100	Pass
1.2258	178	178	100	Pass
1.2442	171	171	100	Pass
1.2627	163	163	100	Pass
1.2812	151	151	100	Pass
1.2996	145	145	100	Pass
1.3181	140	140	100	Pass
1.3366	130	130	100	Pass
1.3550	126	126	100	Pass
1.3735	120	120	100	Pass
1.3920	112	112	100	Pass
1.4104	103	103	100	Pass
1.4289	98	98	100	Pass
1.4474	93	93	100	Pass
1.4658	89	89	100	Pass
1.4843	88	88	100	Pass
1.5028	83	83	100	Pass
1.5212	79	79	100	Pass
1.5397	76	76	100	Pass
1.5582	73	73	100	Pass
1.5766	68	68	100	Pass
1.5951	64	64	100	Pass
1.6136	61	61	100	Pass
1.6320	56	56	100	Pass
1.6505	53	53	100	Pass
1.6690	49	49	100	Pass
1.6874	48	48	100	Pass
1.7059	48	48	100	Pass
1.7244	46	46	100	Pass
1.7428	43	43	100	Pass
1.7613	41	41	100	Pass
1.7798	38	38	100	Pass

1.7982	37	37	100	Pass
1.8167	36	36	100	Pass
1.8352	35	35	100	Pass
1.8536	32	32	100	Pass
1.8721	29	29	100	Pass
1.8905	27	27	100	Pass
1.9090	23	23	100	Pass
1.9275	23	23	100	Pass
1.9459	23	23	100	Pass
1.9644	21	21	100	Pass
1.9829	19	19	100	Pass
2.0013	17	17	100	Pass
2.0198	16	16	100	Pass
2.0383	15	15	100	Pass
2.0567	14	14	100	Pass
2.0752	13	13	100	Pass
2.0937	11	11	100	Pass
2.1121	11	11	100	Pass
2.1306	11	11	100	Pass
2.1491	11	11	100	Pass
2.1675	10	10	100	Pass
2.1860	9	9	100	Pass
2.2045	9	9	100	Pass
2.2229	8	8	100	Pass
2.2414	7	7	100	Pass
2.2599	6	6	100	Pass
2.2783	6	6	100	Pass
2.2968	6	6	100	Pass
2.3153	5	5	100	Pass
2.3337	5	5	100	Pass
2.3522	5	5	100	Pass
2.3707	4	4	100	Pass
2.3891	4	4	100	Pass
2.4076	4	4	100	Pass
2.4261	3	3	100	Pass
2.4445	2	2	100	Pass
2.4630	2	2	100	Pass
2.4815	1	1	100	Pass
2.4999	0	0	100	Pass
2.5184	0	0	0	Pass
2.5369	0	0	0	Pass
2.5553	0	0	0	Pass
2.5738	0	0	0	Pass
2.5922	0	0	0	Pass
2.6107	0	0	0	Pass
2.6292	0	0	0	Pass
2.6476	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #19

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

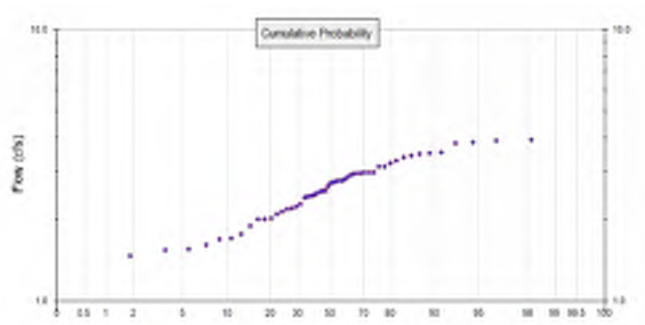
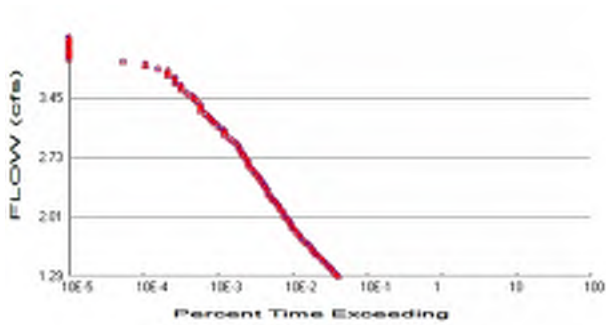
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 20



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #20

Total Pervious Area: 2.39
Total Impervious Area: 2.21

Mitigated Landuse Totals for POC #20

Total Pervious Area: 2.39
Total Impervious Area: 2.21

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #20

Return Period	Flow(cfs)
2 year	2.58357
5 year	3.199588
10 year	3.54311
25 year	3.921959
50 year	4.171963
100 year	4.399379

Flow Frequency Return Periods for Mitigated. POC #20

Return Period	Flow(cfs)
2 year	2.58357
5 year	3.199588
10 year	3.54311
25 year	3.921959
50 year	4.171963
100 year	4.399379

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #20

Year	Predeveloped	Mitigated
1956	2.969	2.969
1957	3.482	3.482
1958	2.532	2.532
1959	2.769	2.769
1960	2.931	2.931
1961	1.998	1.998
1962	3.893	3.893
1963	3.514	3.514
1964	2.833	2.833
1965	2.953	2.953
1966	2.981	2.981

1967	1.685	1.685
1968	2.794	2.794
1969	2.739	2.739
1970	2.224	2.224
1971	3.918	3.918
1972	3.390	3.390
1973	2.903	2.903
1974	2.978	2.978
1975	2.501	2.501
1976	3.135	3.135
1977	2.139	2.139
1978	3.845	3.845
1979	2.461	2.461
1980	2.173	2.173
1981	2.781	2.781
1982	3.222	3.222
1983	2.555	2.555
1984	2.439	2.439
1985	1.544	1.544
1986	2.947	2.947
1987	2.008	2.008
1988	3.139	3.139
1989	2.551	2.551
1990	3.538	3.538
1991	2.093	2.093
1992	1.554	1.554
1993	1.696	1.696
1994	2.419	2.419
1995	1.890	1.890
1996	2.409	2.409
1997	2.759	2.759
1998	1.607	1.607
1999	2.188	2.188
2000	2.023	2.023
2001	1.766	1.766
2002	2.275	2.275
2003	3.807	3.807
2004	3.435	3.435
2005	2.632	2.632
2006	2.710	2.710
2007	3.293	3.293
2008	1.465	1.465
2009	1.341	1.341

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #20

Rank	Predeveloped	Mitigated
1	3.9184	3.9184
2	3.8933	3.8933
3	3.8452	3.8452
4	3.8069	3.8069
5	3.5380	3.5380
6	3.5141	3.5141
7	3.4821	3.4821
8	3.4349	3.4349
9	3.3901	3.3901
10	3.2927	3.2927
11	3.2224	3.2224

12	3.1387	3.1387
13	3.1354	3.1354
14	2.9807	2.9807
15	2.9784	2.9784
16	2.9686	2.9686
17	2.9526	2.9526
18	2.9474	2.9474
19	2.9313	2.9313
20	2.9030	2.9030
21	2.8332	2.8332
22	2.7935	2.7935
23	2.7808	2.7808
24	2.7693	2.7693
25	2.7587	2.7587
26	2.7385	2.7385
27	2.7097	2.7097
28	2.6324	2.6324
29	2.5553	2.5553
30	2.5512	2.5512
31	2.5316	2.5316
32	2.5006	2.5006
33	2.4605	2.4605
34	2.4393	2.4393
35	2.4190	2.4190
36	2.4087	2.4087
37	2.2752	2.2752
38	2.2238	2.2238
39	2.1881	2.1881
40	2.1734	2.1734
41	2.1395	2.1395
42	2.0925	2.0925
43	2.0225	2.0225
44	2.0078	2.0078
45	1.9981	1.9981
46	1.8900	1.8900
47	1.7660	1.7660
48	1.6958	1.6958
49	1.6846	1.6846
50	1.6075	1.6075
51	1.5543	1.5543
52	1.5443	1.5443
53	1.4653	1.4653
54	1.3408	1.3408

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.2918	770	770	100	Pass
1.3209	722	722	100	Pass
1.3500	671	671	100	Pass
1.3791	628	628	100	Pass
1.4082	584	584	100	Pass
1.4372	550	550	100	Pass
1.4663	511	511	100	Pass
1.4954	474	474	100	Pass
1.5245	434	434	100	Pass
1.5536	395	395	100	Pass
1.5827	375	375	100	Pass
1.6118	357	357	100	Pass
1.6409	335	335	100	Pass
1.6700	318	318	100	Pass
1.6991	291	291	100	Pass
1.7282	269	269	100	Pass
1.7573	247	247	100	Pass
1.7864	235	235	100	Pass
1.8155	217	217	100	Pass
1.8445	209	209	100	Pass
1.8736	197	197	100	Pass
1.9027	186	186	100	Pass
1.9318	178	178	100	Pass
1.9609	171	171	100	Pass
1.9900	163	163	100	Pass
2.0191	151	151	100	Pass
2.0482	145	145	100	Pass
2.0773	140	140	100	Pass
2.1064	130	130	100	Pass
2.1355	126	126	100	Pass
2.1646	120	120	100	Pass
2.1937	112	112	100	Pass
2.2228	103	103	100	Pass
2.2518	98	98	100	Pass
2.2809	93	93	100	Pass
2.3100	89	89	100	Pass
2.3391	88	88	100	Pass
2.3682	83	83	100	Pass
2.3973	79	79	100	Pass
2.4264	76	76	100	Pass
2.4555	73	73	100	Pass
2.4846	68	68	100	Pass
2.5137	65	65	100	Pass
2.5428	61	61	100	Pass
2.5719	57	57	100	Pass
2.6010	53	53	100	Pass
2.6300	49	49	100	Pass
2.6591	48	48	100	Pass
2.6882	48	48	100	Pass
2.7173	46	46	100	Pass
2.7464	43	43	100	Pass
2.7755	41	41	100	Pass
2.8046	38	38	100	Pass

2.8337	38	38	100	Pass
2.8628	36	36	100	Pass
2.8919	35	35	100	Pass
2.9210	32	32	100	Pass
2.9501	29	29	100	Pass
2.9792	26	26	100	Pass
3.0083	23	23	100	Pass
3.0373	23	23	100	Pass
3.0664	23	23	100	Pass
3.0955	21	21	100	Pass
3.1246	19	19	100	Pass
3.1537	17	17	100	Pass
3.1828	16	16	100	Pass
3.2119	15	15	100	Pass
3.2410	14	14	100	Pass
3.2701	13	13	100	Pass
3.2992	11	11	100	Pass
3.3283	11	11	100	Pass
3.3574	11	11	100	Pass
3.3865	11	11	100	Pass
3.4156	10	10	100	Pass
3.4446	9	9	100	Pass
3.4737	9	9	100	Pass
3.5028	8	8	100	Pass
3.5319	7	7	100	Pass
3.5610	6	6	100	Pass
3.5901	6	6	100	Pass
3.6192	6	6	100	Pass
3.6483	5	5	100	Pass
3.6774	5	5	100	Pass
3.7065	5	5	100	Pass
3.7356	4	4	100	Pass
3.7647	4	4	100	Pass
3.7938	4	4	100	Pass
3.8229	3	3	100	Pass
3.8519	2	2	100	Pass
3.8810	2	2	100	Pass
3.9101	1	1	100	Pass
3.9392	0	0	100	Pass
3.9683	0	0	0	Pass
3.9974	0	0	0	Pass
4.0265	0	0	0	Pass
4.0556	0	0	0	Pass
4.0847	0	0	0	Pass
4.1138	0	0	0	Pass
4.1429	0	0	0	Pass
4.1720	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #20

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

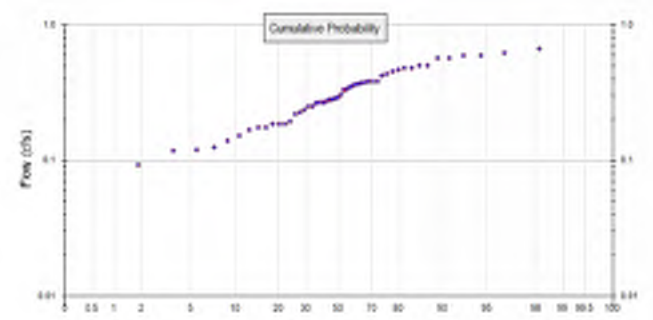
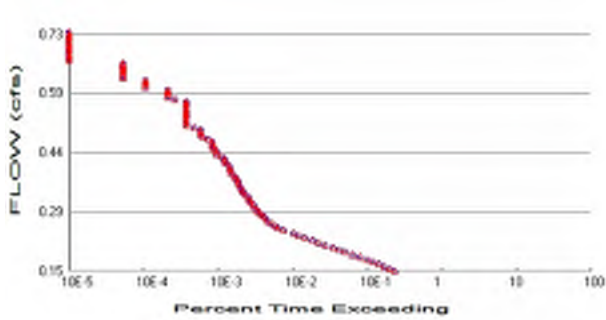
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 21



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #21

Total Pervious Area: 2.28
Total Impervious Area: 0

Mitigated Landuse Totals for POC #21

Total Pervious Area: 2.28
Total Impervious Area: 0

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #21

Return Period	Flow(cfs)
2 year	0.296967
5 year	0.443817
10 year	0.53755
25 year	0.650595
50 year	0.730691
100 year	0.807314

Flow Frequency Return Periods for Mitigated. POC #21

Return Period	Flow(cfs)
2 year	0.296967
5 year	0.443817
10 year	0.53755
25 year	0.650595
50 year	0.730691
100 year	0.807314

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #21

Year	Predeveloped	Mitigated
1956	0.467	0.467
1957	0.477	0.477
1958	0.281	0.281
1959	0.270	0.270
1960	0.364	0.364
1961	0.270	0.270
1962	0.622	0.622
1963	0.566	0.566
1964	0.251	0.251
1965	0.483	0.483
1966	0.383	0.383

1967	0.169	0.169
1968	0.332	0.332
1969	0.596	0.596
1970	0.175	0.175
1971	0.595	0.595
1972	0.664	0.664
1973	0.384	0.384
1974	0.450	0.450
1975	0.279	0.279
1976	0.436	0.436
1977	0.185	0.185
1978	0.501	0.501
1979	0.306	0.306
1980	0.283	0.283
1981	0.385	0.385
1982	0.288	0.288
1983	0.379	0.379
1984	0.270	0.270
1985	0.118	0.118
1986	0.349	0.349
1987	0.226	0.226
1988	0.331	0.331
1989	0.220	0.220
1990	0.497	0.497
1991	0.424	0.424
1992	0.153	0.153
1993	0.120	0.120
1994	0.249	0.249
1995	0.175	0.175
1996	0.092	0.092
1997	0.373	0.373
1998	0.140	0.140
1999	0.235	0.235
2000	0.264	0.264
2001	0.077	0.077
2002	0.186	0.186
2003	0.573	0.573
2004	0.293	0.293
2005	0.194	0.194
2006	0.359	0.359
2007	0.344	0.344
2008	0.125	0.125
2009	0.184	0.184

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #21

Rank	Predeveloped	Mitigated
1	0.6639	0.6639
2	0.6220	0.6220
3	0.5964	0.5964
4	0.5954	0.5954
5	0.5725	0.5725
6	0.5665	0.5665
7	0.5012	0.5012
8	0.4972	0.4972
9	0.4826	0.4826
10	0.4766	0.4766
11	0.4671	0.4671

12	0.4502	0.4502
13	0.4358	0.4358
14	0.4242	0.4242
15	0.3846	0.3846
16	0.3842	0.3842
17	0.3825	0.3825
18	0.3795	0.3795
19	0.3733	0.3733
20	0.3642	0.3642
21	0.3588	0.3588
22	0.3491	0.3491
23	0.3438	0.3438
24	0.3319	0.3319
25	0.3314	0.3314
26	0.3059	0.3059
27	0.2931	0.2931
28	0.2883	0.2883
29	0.2831	0.2831
30	0.2810	0.2810
31	0.2794	0.2794
32	0.2701	0.2701
33	0.2698	0.2698
34	0.2696	0.2696
35	0.2640	0.2640
36	0.2508	0.2508
37	0.2491	0.2491
38	0.2354	0.2354
39	0.2258	0.2258
40	0.2203	0.2203
41	0.1942	0.1942
42	0.1855	0.1855
43	0.1845	0.1845
44	0.1845	0.1845
45	0.1748	0.1748
46	0.1747	0.1747
47	0.1686	0.1686
48	0.1531	0.1531
49	0.1398	0.1398
50	0.1248	0.1248
51	0.1196	0.1196
52	0.1180	0.1180
53	0.0924	0.0924
54	0.0767	0.0767

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1485	4374	4374	100	Pass
0.1544	3757	3757	100	Pass
0.1602	3168	3168	100	Pass
0.1661	2660	2660	100	Pass
0.1720	2229	2229	100	Pass
0.1779	1872	1872	100	Pass
0.1838	1510	1510	100	Pass
0.1896	1201	1201	100	Pass
0.1955	949	949	100	Pass
0.2014	789	789	100	Pass
0.2073	647	647	100	Pass
0.2132	508	508	100	Pass
0.2191	421	421	100	Pass
0.2249	347	347	100	Pass
0.2308	278	278	100	Pass
0.2367	228	228	100	Pass
0.2426	193	193	100	Pass
0.2485	144	144	100	Pass
0.2543	120	120	100	Pass
0.2602	110	110	100	Pass
0.2661	98	98	100	Pass
0.2720	88	88	100	Pass
0.2779	83	83	100	Pass
0.2837	76	76	100	Pass
0.2896	70	70	100	Pass
0.2955	66	66	100	Pass
0.3014	61	61	100	Pass
0.3073	57	57	100	Pass
0.3131	56	56	100	Pass
0.3190	51	51	100	Pass
0.3249	50	50	100	Pass
0.3308	48	48	100	Pass
0.3367	44	44	100	Pass
0.3426	41	41	100	Pass
0.3484	40	40	100	Pass
0.3543	38	38	100	Pass
0.3602	36	36	100	Pass
0.3661	35	35	100	Pass
0.3720	35	35	100	Pass
0.3778	33	33	100	Pass
0.3837	31	31	100	Pass
0.3896	28	28	100	Pass
0.3955	28	28	100	Pass
0.4014	27	27	100	Pass
0.4072	27	27	100	Pass
0.4131	24	24	100	Pass
0.4190	23	23	100	Pass
0.4249	23	23	100	Pass
0.4308	21	21	100	Pass
0.4366	18	18	100	Pass
0.4425	18	18	100	Pass
0.4484	17	17	100	Pass
0.4543	16	16	100	Pass

0.4602	16	16	100	Pass
0.4661	16	16	100	Pass
0.4719	14	14	100	Pass
0.4778	12	12	100	Pass
0.4837	11	11	100	Pass
0.4896	11	11	100	Pass
0.4955	11	11	100	Pass
0.5013	9	9	100	Pass
0.5072	7	7	100	Pass
0.5131	7	7	100	Pass
0.5190	7	7	100	Pass
0.5249	7	7	100	Pass
0.5307	7	7	100	Pass
0.5366	7	7	100	Pass
0.5425	7	7	100	Pass
0.5484	7	7	100	Pass
0.5543	7	7	100	Pass
0.5601	7	7	100	Pass
0.5660	7	7	100	Pass
0.5719	5	5	100	Pass
0.5778	4	4	100	Pass
0.5837	4	4	100	Pass
0.5895	4	4	100	Pass
0.5954	4	4	100	Pass
0.6013	2	2	100	Pass
0.6072	2	2	100	Pass
0.6131	2	2	100	Pass
0.6190	2	2	100	Pass
0.6248	1	1	100	Pass
0.6307	1	1	100	Pass
0.6366	1	1	100	Pass
0.6425	1	1	100	Pass
0.6484	1	1	100	Pass
0.6542	1	1	100	Pass
0.6601	1	1	100	Pass
0.6660	0	0	100	Pass
0.6719	0	0	0	Pass
0.6778	0	0	0	Pass
0.6836	0	0	0	Pass
0.6895	0	0	0	Pass
0.6954	0	0	0	Pass
0.7013	0	0	0	Pass
0.7072	0	0	0	Pass
0.7130	0	0	0	Pass
0.7189	0	0	0	Pass
0.7248	0	0	0	Pass
0.7307	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #21

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

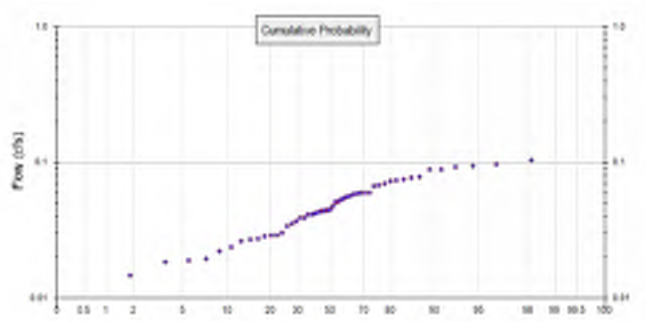
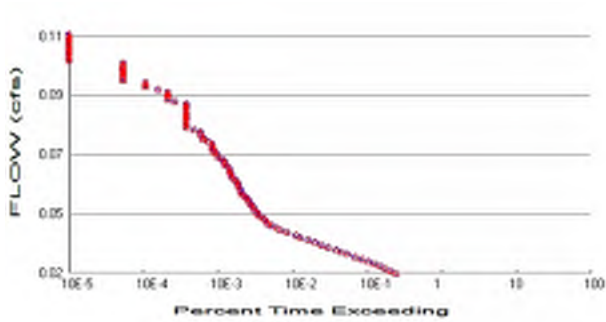
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 22



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #22

Total Pervious Area: 0.36
Total Impervious Area: 0

Mitigated Landuse Totals for POC #22

Total Pervious Area: 0.36
Total Impervious Area: 0

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #22

Return Period	Flow(cfs)
2 year	0.04616
5 year	0.068927
10 year	0.08345
25 year	0.100957
50 year	0.113358
100 year	0.125219

Flow Frequency Return Periods for Mitigated. POC #22

Return Period	Flow(cfs)
2 year	0.04616
5 year	0.068927
10 year	0.08345
25 year	0.100957
50 year	0.113358
100 year	0.125219

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #22

Year	Predeveloped	Mitigated
1956	0.073	0.073
1957	0.074	0.074
1958	0.044	0.044
1959	0.041	0.041
1960	0.056	0.056
1961	0.042	0.042
1962	0.097	0.097
1963	0.088	0.088
1964	0.039	0.039
1965	0.075	0.075
1966	0.059	0.059

1967	0.026	0.026
1968	0.051	0.051
1969	0.093	0.093
1970	0.027	0.027
1971	0.093	0.093
1972	0.104	0.104
1973	0.060	0.060
1974	0.070	0.070
1975	0.044	0.044
1976	0.068	0.068
1977	0.028	0.028
1978	0.078	0.078
1979	0.047	0.047
1980	0.044	0.044
1981	0.060	0.060
1982	0.044	0.044
1983	0.059	0.059
1984	0.042	0.042
1985	0.018	0.018
1986	0.054	0.054
1987	0.035	0.035
1988	0.051	0.051
1989	0.034	0.034
1990	0.077	0.077
1991	0.067	0.067
1992	0.024	0.024
1993	0.019	0.019
1994	0.039	0.039
1995	0.027	0.027
1996	0.015	0.015
1997	0.058	0.058
1998	0.022	0.022
1999	0.037	0.037
2000	0.041	0.041
2001	0.012	0.012
2002	0.029	0.029
2003	0.089	0.089
2004	0.045	0.045
2005	0.030	0.030
2006	0.056	0.056
2007	0.053	0.053
2008	0.019	0.019
2009	0.029	0.029

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #22

Rank	Predeveloped	Mitigated
1	0.1037	0.1037
2	0.0968	0.0968
3	0.0934	0.0934
4	0.0927	0.0927
5	0.0890	0.0890
6	0.0882	0.0882
7	0.0779	0.0779
8	0.0772	0.0772
9	0.0753	0.0753
10	0.0741	0.0741
11	0.0727	0.0727

12	0.0700	0.0700
13	0.0678	0.0678
14	0.0665	0.0665
15	0.0599	0.0599
16	0.0597	0.0597
17	0.0592	0.0592
18	0.0592	0.0592
19	0.0582	0.0582
20	0.0563	0.0563
21	0.0557	0.0557
22	0.0540	0.0540
23	0.0529	0.0529
24	0.0513	0.0513
25	0.0513	0.0513
26	0.0474	0.0474
27	0.0448	0.0448
28	0.0444	0.0444
29	0.0443	0.0443
30	0.0436	0.0436
31	0.0436	0.0436
32	0.0421	0.0421
33	0.0419	0.0419
34	0.0414	0.0414
35	0.0411	0.0411
36	0.0388	0.0388
37	0.0388	0.0388
38	0.0367	0.0367
39	0.0352	0.0352
40	0.0338	0.0338
41	0.0301	0.0301
42	0.0290	0.0290
43	0.0290	0.0290
44	0.0284	0.0284
45	0.0272	0.0272
46	0.0269	0.0269
47	0.0261	0.0261
48	0.0236	0.0236
49	0.0220	0.0220
50	0.0194	0.0194
51	0.0188	0.0188
52	0.0184	0.0184
53	0.0146	0.0146
54	0.0121	0.0121

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0231	4571	4571	100	Pass
0.0240	3942	3942	100	Pass
0.0249	3346	3346	100	Pass
0.0258	2838	2838	100	Pass
0.0267	2391	2391	100	Pass
0.0276	1988	1988	100	Pass
0.0286	1611	1611	100	Pass
0.0295	1312	1312	100	Pass
0.0304	1034	1034	100	Pass
0.0313	844	844	100	Pass
0.0322	720	720	100	Pass
0.0331	568	568	100	Pass
0.0340	460	460	100	Pass
0.0349	379	379	100	Pass
0.0358	308	308	100	Pass
0.0368	241	241	100	Pass
0.0377	209	209	100	Pass
0.0386	160	160	100	Pass
0.0395	131	131	100	Pass
0.0404	117	117	100	Pass
0.0413	99	99	100	Pass
0.0422	89	89	100	Pass
0.0431	83	83	100	Pass
0.0441	77	77	100	Pass
0.0450	69	69	100	Pass
0.0459	66	66	100	Pass
0.0468	61	61	100	Pass
0.0477	57	57	100	Pass
0.0486	56	56	100	Pass
0.0495	52	52	100	Pass
0.0504	50	50	100	Pass
0.0513	47	47	100	Pass
0.0523	44	44	100	Pass
0.0532	40	40	100	Pass
0.0541	39	39	100	Pass
0.0550	38	38	100	Pass
0.0559	36	36	100	Pass
0.0568	35	35	100	Pass
0.0577	35	35	100	Pass
0.0586	33	33	100	Pass
0.0596	30	30	100	Pass
0.0605	28	28	100	Pass
0.0614	28	28	100	Pass
0.0623	27	27	100	Pass
0.0632	27	27	100	Pass
0.0641	24	24	100	Pass
0.0650	23	23	100	Pass
0.0659	23	23	100	Pass
0.0669	21	21	100	Pass
0.0678	19	19	100	Pass
0.0687	18	18	100	Pass
0.0696	17	17	100	Pass
0.0705	16	16	100	Pass

0.0714	16	16	100	Pass
0.0723	16	16	100	Pass
0.0732	14	14	100	Pass
0.0741	12	12	100	Pass
0.0751	12	12	100	Pass
0.0760	11	11	100	Pass
0.0769	11	11	100	Pass
0.0778	9	9	100	Pass
0.0787	7	7	100	Pass
0.0796	7	7	100	Pass
0.0805	7	7	100	Pass
0.0814	7	7	100	Pass
0.0824	7	7	100	Pass
0.0833	7	7	100	Pass
0.0842	7	7	100	Pass
0.0851	7	7	100	Pass
0.0860	7	7	100	Pass
0.0869	7	7	100	Pass
0.0878	7	7	100	Pass
0.0887	5	5	100	Pass
0.0896	4	4	100	Pass
0.0906	4	4	100	Pass
0.0915	4	4	100	Pass
0.0924	4	4	100	Pass
0.0933	3	3	100	Pass
0.0942	2	2	100	Pass
0.0951	2	2	100	Pass
0.0960	2	2	100	Pass
0.0969	1	1	100	Pass
0.0979	1	1	100	Pass
0.0988	1	1	100	Pass
0.0997	1	1	100	Pass
0.1006	1	1	100	Pass
0.1015	1	1	100	Pass
0.1024	1	1	100	Pass
0.1033	1	1	100	Pass
0.1042	0	0	100	Pass
0.1052	0	0	0	Pass
0.1061	0	0	0	Pass
0.1070	0	0	0	Pass
0.1079	0	0	0	Pass
0.1088	0	0	0	Pass
0.1097	0	0	0	Pass
0.1106	0	0	0	Pass
0.1115	0	0	0	Pass
0.1124	0	0	0	Pass
0.1134	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #22

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

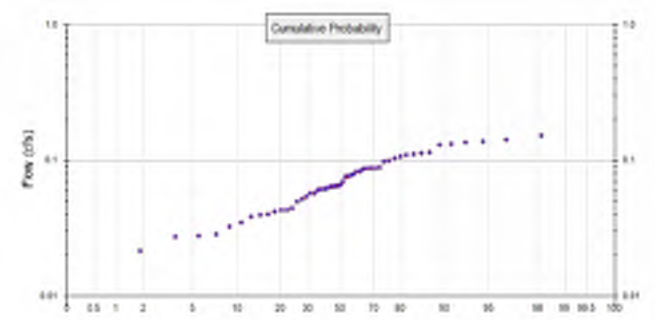
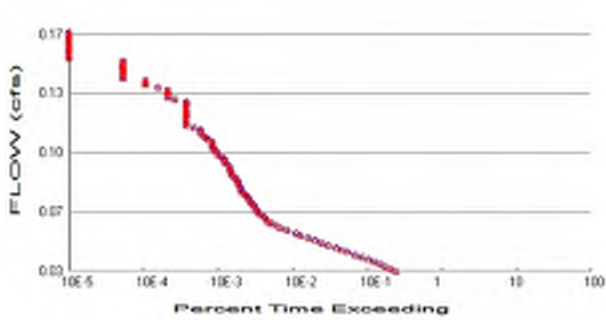
Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

POC 23



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #23

Total Pervious Area: 0.53
Total Impervious Area: 0

Mitigated Landuse Totals for POC #23

Total Pervious Area: 0.53
Total Impervious Area: 0

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #23

Return Period	Flow(cfs)
2 year	0.067958
5 year	0.101476
10 year	0.122856
25 year	0.148632
50 year	0.166889
100 year	0.18435

Flow Frequency Return Periods for Mitigated. POC #23

Return Period	Flow(cfs)
2 year	0.067958
5 year	0.101476
10 year	0.122856
25 year	0.148632
50 year	0.166889
100 year	0.18435

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #23

Year	Predeveloped	Mitigated
1956	0.107	0.107
1957	0.109	0.109
1958	0.064	0.064
1959	0.061	0.061
1960	0.083	0.083
1961	0.062	0.062
1962	0.142	0.142
1963	0.130	0.130
1964	0.057	0.057
1965	0.111	0.111
1966	0.087	0.087

1967	0.038	0.038
1968	0.076	0.076
1969	0.138	0.138
1970	0.040	0.040
1971	0.136	0.136
1972	0.153	0.153
1973	0.088	0.088
1974	0.103	0.103
1975	0.064	0.064
1976	0.100	0.100
1977	0.042	0.042
1978	0.115	0.115
1979	0.070	0.070
1980	0.065	0.065
1981	0.088	0.088
1982	0.065	0.065
1983	0.087	0.087
1984	0.062	0.062
1985	0.027	0.027
1986	0.080	0.080
1987	0.052	0.052
1988	0.076	0.076
1989	0.050	0.050
1990	0.114	0.114
1991	0.098	0.098
1992	0.035	0.035
1993	0.028	0.028
1994	0.057	0.057
1995	0.040	0.040
1996	0.021	0.021
1997	0.086	0.086
1998	0.032	0.032
1999	0.054	0.054
2000	0.060	0.060
2001	0.018	0.018
2002	0.043	0.043
2003	0.131	0.131
2004	0.066	0.066
2005	0.044	0.044
2006	0.082	0.082
2007	0.078	0.078
2008	0.029	0.029
2009	0.043	0.043

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #23

Rank	Predeveloped	Mitigated
1	0.1527	0.1527
2	0.1425	0.1425
3	0.1376	0.1376
4	0.1365	0.1365
5	0.1311	0.1311
6	0.1299	0.1299
7	0.1146	0.1146
8	0.1136	0.1136
9	0.1108	0.1108
10	0.1091	0.1091
11	0.1070	0.1070

12	0.1030	0.1030
13	0.0999	0.0999
14	0.0979	0.0979
15	0.0882	0.0882
16	0.0879	0.0879
17	0.0872	0.0872
18	0.0871	0.0871
19	0.0857	0.0857
20	0.0829	0.0829
21	0.0820	0.0820
22	0.0796	0.0796
23	0.0779	0.0779
24	0.0756	0.0756
25	0.0755	0.0755
26	0.0698	0.0698
27	0.0659	0.0659
28	0.0653	0.0653
29	0.0653	0.0653
30	0.0642	0.0642
31	0.0642	0.0642
32	0.0620	0.0620
33	0.0617	0.0617
34	0.0610	0.0610
35	0.0604	0.0604
36	0.0571	0.0571
37	0.0571	0.0571
38	0.0540	0.0540
39	0.0519	0.0519
40	0.0498	0.0498
41	0.0443	0.0443
42	0.0427	0.0427
43	0.0427	0.0427
44	0.0417	0.0417
45	0.0401	0.0401
46	0.0396	0.0396
47	0.0384	0.0384
48	0.0348	0.0348
49	0.0324	0.0324
50	0.0286	0.0286
51	0.0276	0.0276
52	0.0271	0.0271
53	0.0214	0.0214
54	0.0178	0.0178

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0340	4578	4578	100	Pass
0.0353	3940	3940	100	Pass
0.0367	3346	3346	100	Pass
0.0380	2838	2838	100	Pass
0.0393	2390	2390	100	Pass
0.0407	1982	1982	100	Pass
0.0420	1612	1612	100	Pass
0.0434	1313	1313	100	Pass
0.0447	1034	1034	100	Pass
0.0461	842	842	100	Pass
0.0474	718	718	100	Pass
0.0487	569	569	100	Pass
0.0501	461	461	100	Pass
0.0514	378	378	100	Pass
0.0528	308	308	100	Pass
0.0541	241	241	100	Pass
0.0555	209	209	100	Pass
0.0568	160	160	100	Pass
0.0581	131	131	100	Pass
0.0595	117	117	100	Pass
0.0608	99	99	100	Pass
0.0622	89	89	100	Pass
0.0635	83	83	100	Pass
0.0649	77	77	100	Pass
0.0662	69	69	100	Pass
0.0675	66	66	100	Pass
0.0689	61	61	100	Pass
0.0702	58	58	100	Pass
0.0716	56	56	100	Pass
0.0729	52	52	100	Pass
0.0743	50	50	100	Pass
0.0756	47	47	100	Pass
0.0769	44	44	100	Pass
0.0783	40	40	100	Pass
0.0796	39	39	100	Pass
0.0810	38	38	100	Pass
0.0823	36	36	100	Pass
0.0837	35	35	100	Pass
0.0850	35	35	100	Pass
0.0863	33	33	100	Pass
0.0877	30	30	100	Pass
0.0890	28	28	100	Pass
0.0904	28	28	100	Pass
0.0917	27	27	100	Pass
0.0931	27	27	100	Pass
0.0944	24	24	100	Pass
0.0957	23	23	100	Pass
0.0971	23	23	100	Pass
0.0984	21	21	100	Pass
0.0998	19	19	100	Pass
0.1011	18	18	100	Pass
0.1024	17	17	100	Pass
0.1038	16	16	100	Pass

0.1051	16	16	100	Pass
0.1065	16	16	100	Pass
0.1078	14	14	100	Pass
0.1092	13	13	100	Pass
0.1105	12	12	100	Pass
0.1118	11	11	100	Pass
0.1132	11	11	100	Pass
0.1145	9	9	100	Pass
0.1159	7	7	100	Pass
0.1172	7	7	100	Pass
0.1186	7	7	100	Pass
0.1199	7	7	100	Pass
0.1212	7	7	100	Pass
0.1226	7	7	100	Pass
0.1239	7	7	100	Pass
0.1253	7	7	100	Pass
0.1266	7	7	100	Pass
0.1280	7	7	100	Pass
0.1293	7	7	100	Pass
0.1306	5	5	100	Pass
0.1320	4	4	100	Pass
0.1333	4	4	100	Pass
0.1347	4	4	100	Pass
0.1360	4	4	100	Pass
0.1374	3	3	100	Pass
0.1387	2	2	100	Pass
0.1400	2	2	100	Pass
0.1414	2	2	100	Pass
0.1427	1	1	100	Pass
0.1441	1	1	100	Pass
0.1454	1	1	100	Pass
0.1468	1	1	100	Pass
0.1481	1	1	100	Pass
0.1494	1	1	100	Pass
0.1508	1	1	100	Pass
0.1521	1	1	100	Pass
0.1535	0	0	100	Pass
0.1548	0	0	0	Pass
0.1561	0	0	0	Pass
0.1575	0	0	0	Pass
0.1588	0	0	0	Pass
0.1602	0	0	0	Pass
0.1615	0	0	0	Pass
0.1629	0	0	0	Pass
0.1642	0	0	0	Pass
0.1655	0	0	0	Pass
0.1669	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #23

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

Model Default Modifications

Total of 0 changes have been made.

PERLND Changes

No PERLND changes have been made.

IMPLND Changes

No IMPLND changes have been made.

Appendix
Predeveloped Schematic



Mitigated Schematic



Predeveloped UCI File

RUN

GLOBAL

```
WVHM4 model simulation
START      1955 10 01      END      2009 09 30
RUN INTERP OUTPUT LEVEL   3      0
RESUME     0 RUN          1          UNIT SYSTEM      1
END GLOBAL
```

FILES

```
<File>  <Un#>  <-----File Name----->***
<-ID->                                     ***
WDM      26     WVHM K-STREET REPORT.wdm
MESSU    25     PreWVHM K-STREET REPORT.MES
          27     PreWVHM K-STREET REPORT.L61
          28     PreWVHM K-STREET REPORT.L62
          30     POCWVHM K-STREET REPORT1.dat
          31     POCWVHM K-STREET REPORT2.dat
          32     POCWVHM K-STREET REPORT3.dat
          33     POCWVHM K-STREET REPORT4.dat
          34     POCWVHM K-STREET REPORT5.dat
          35     POCWVHM K-STREET REPORT6.dat
          36     POCWVHM K-STREET REPORT7.dat
          37     POCWVHM K-STREET REPORT8.dat
          38     POCWVHM K-STREET REPORT9.dat
          39     POCWVHM K-STREET REPORT10.dat
          40     POCWVHM K-STREET REPORT11.dat
          41     POCWVHM K-STREET REPORT12.dat
          42     POCWVHM K-STREET REPORT13.dat
          43     POCWVHM K-STREET REPORT14.dat
          44     POCWVHM K-STREET REPORT15.dat
          45     POCWVHM K-STREET REPORT16.dat
          46     POCWVHM K-STREET REPORT17.dat
          47     POCWVHM K-STREET REPORT18.dat
          48     POCWVHM K-STREET REPORT19.dat
          49     POCWVHM K-STREET REPORT20.dat
          50     POCWVHM K-STREET REPORT21.dat
          51     POCWVHM K-STREET REPORT22.dat
          52     POCWVHM K-STREET REPORT23.dat
```

END FILES

OPN SEQUENCE

```
INGRP      INDELT 00:15
PERLND     16
IMPLND     1
PERLND     10
COPY       501
COPY       502
COPY       503
COPY       504
COPY       505
COPY       506
COPY       507
COPY       508
COPY       509
COPY       510
COPY       511
COPY       512
COPY       513
COPY       514
COPY       515
COPY       516
COPY       517
COPY       518
COPY       519
COPY       520
COPY       521
COPY       522
```

COPY 523
 DISPLY 1
 DISPLY 2
 DISPLY 3
 DISPLY 4
 DISPLY 5
 DISPLY 6
 DISPLY 7
 DISPLY 8
 DISPLY 9
 DISPLY 10
 DISPLY 11
 DISPLY 12
 DISPLY 13
 DISPLY 14
 DISPLY 15
 DISPLY 16
 DISPLY 17
 DISPLY 18
 DISPLY 19
 DISPLY 20
 DISPLY 21
 DISPLY 22
 DISPLY 23

END INGRP

END OPN SEQUENCE

DISPLY

DISPLY-INFO1

#	-	#	<-----Title----->	***TRAN	PIVL	DIG1	FIL1	PYR	DIG2	FIL2	YRND
1			OS-41	MAX				1	2	30	9
2			OS-38	MAX				1	2	31	9
3			OS-25	MAX				1	2	32	9
4			OS-24	MAX				1	2	33	9
5			OS-4A	MAX				1	2	34	9
6			OS-31	MAX				1	2	35	9
7			OS-44	MAX				1	2	36	9
8			OS-92	MAX				1	2	37	9
9			OS-89	MAX				1	2	38	9
10			OS-86	MAX				1	2	39	9
11			OS-83	MAX				1	2	40	9
12			OS-81	MAX				1	2	41	9
13			OS-76	MAX				1	2	42	9
14			OS-70	MAX				1	2	43	9
15			OS-75	MAX				1	2	44	9
16			OS-26	MAX				1	2	45	9
17			OS-16	MAX				1	2	46	9
18			OS-14	MAX				1	2	47	9
19			OS-5	MAX				1	2	48	9
20			OS-4	MAX				1	2	49	9
21			OS-3	MAX				1	2	50	9
22			OS-2	MAX				1	2	51	9
23			OS-1	MAX				1	2	52	9

END DISPLY-INFO1

END DISPLY

COPY

TIMESERIES

#	-	#	NPT	NMN	***
1			1	1	
501			1	1	
502			1	1	
503			1	1	
504			1	1	
505			1	1	
506			1	1	
507			1	1	
508			1	1	
509			1	1	
510			1	1	
511			1	1	
512			1	1	

```

513      1      1
514      1      1
515      1      1
516      1      1
517      1      1
518      1      1
519      1      1
520      1      1
521      1      1
522      1      1
523      1      1

```

END TIMESERIES

END COPY

GENER

OPCODE

```
#      # OPCD ***
```

END OPCODE

PARM

```
#      #          K ***
```

END PARM

END GENER

PERLND

GEN-INFO

```
<PLS ><-----Name----->NBLKS      Unit-systems      Printer ***
# - #                               User  t-series  Engr Metr ***
                               in  out
***
```

```

16      C, Lawn, Flat      1      1      1      1      27      0
10      C, Forest, Flat   1      1      1      1      27      0

```

END GEN-INFO

*** Section PWATER***

ACTIVITY

```
<PLS > ***** Active Sections *****
# - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC ***
16      0      0      1      0      0      0      0      0      0      0      0      0
10      0      0      1      0      0      0      0      0      0      0      0      0

```

END ACTIVITY

PRINT-INFO

```
<PLS > ***** Print-flags ***** PIVL  PYR
# - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC *****
16      0      0      4      0      0      0      0      0      0      0      0      0      1      9
10      0      0      4      0      0      0      0      0      0      0      0      0      1      9

```

END PRINT-INFO

PWAT-PARM1

```
<PLS > PWATER variable monthly parameter value flags ***
# - # CSNO RTOP UZFG  VCS  VUZ  VMN  VIFW  VIRC  VLE  INFC  HWT ***
16      0      0      0      0      0      0      0      0      0      0      0
10      0      0      0      0      0      0      0      0      0      0      0

```

END PWAT-PARM1

PWAT-PARM2

```
<PLS > PWATER input info: Part 2      ***
# - # ***FOREST  LZSN  INFILT  LSUR  SLSUR  KVARY  AGWRC
16      0      4.5  0.03  400  0.05  0.5  0.996
10      0      4.5  0.08  400  0.05  0.5  0.996

```

END PWAT-PARM2

PWAT-PARM3

```
<PLS > PWATER input info: Part 3      ***
# - # ***PETMAX  PETMIN  INFEXP  INFILD  DEEPFR  BASETP  AGWETP
16      0      0      2      2      0      0      0
10      0      0      2      2      0      0      0

```

END PWAT-PARM3

PWAT-PARM4

```
<PLS > PWATER input info: Part 4      ***
# - # CEPSC  UZSN  NSUR  INTFW  IRC  LZETP ***
16      0.1  0.25  0.25  6      0.5  0.25
10      0.2  0.5  0.35  6      0.5  0.7

```

END PWAT-PARM4

PWAT-STATE1

```

<PLS > *** Initial conditions at start of simulation
          ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
# - # *** CEPS      SURS      UZS      IFWS      LZS      AGWS      GWVS
16      0          0          0          0          2.5      1          0
10      0          0          0          0          2.5      1          0

```

END PWAT-STATE1

END PERLND

IMPLND

GEN-INFO

```

<PLS ><-----Name----->   Unit-systems   Printer ***
# - #                           User  t-series  Engr Metr ***
                               in  out      ***
1      ROADS/FLAT                1    1    1    27    0

```

END GEN-INFO

*** Section IWATER***

ACTIVITY

```

<PLS > ***** Active Sections *****
# - # ATMP SNOW IWAT  SLD  IWG IQAL  ***
1      0      0      1      0      0      0

```

END ACTIVITY

PRINT-INFO

```

<ILS > ***** Print-flags ***** PIVL  PYR
# - # ATMP SNOW IWAT  SLD  IWG IQAL  *****
1      0      0      4      0      0      0      1      9

```

END PRINT-INFO

IWAT-PARM1

```

<PLS > IWATER variable monthly parameter value flags ***
# - # CSNO RTOP  VRS  VNN RTLI  ***
1      0      0      0      0      0

```

END IWAT-PARM1

IWAT-PARM2

```

<PLS > IWATER input info: Part 2 ***
# - # *** LSUR      SLSUR      NSUR      RETSC
1      400      0.01      0.1      0.1

```

END IWAT-PARM2

IWAT-PARM3

```

<PLS > IWATER input info: Part 3 ***
# - # ***PETMAX      PETMIN
1      0          0

```

END IWAT-PARM3

IWAT-STATE1

```

<PLS > *** Initial conditions at start of simulation
# - # *** RETS      SURS
1      0          0

```

END IWAT-STATE1

END IMPLND

SCHEMATIC

```

<-Source->          <--Area-->          <-Target->          MBLK          ***
<Name> #           <-factor->          <Name> #          Tbl#          ***
OS-41***
PERLND 16           2.61           COPY 501          12
PERLND 16           2.61           COPY 501          13
IMPLND 1            2.4            COPY 501          15
OS-38***
PERLND 16           0.88           COPY 502          12
PERLND 16           0.88           COPY 502          13
IMPLND 1            0.81           COPY 502          15

```

OS-25***					
PERLND	16	1.21	COPY	503	12
PERLND	16	1.21	COPY	503	13
IMPLND	1	1.11	COPY	503	15
OS-24***					
PERLND	16	0.52	COPY	504	12
PERLND	16	0.52	COPY	504	13
IMPLND	1	0.47	COPY	504	15
OS-4A***					
PERLND	16	0.4	COPY	505	12
PERLND	16	0.4	COPY	505	13
IMPLND	1	0.36	COPY	505	15
OS-31***					
PERLND	16	0.65	COPY	506	12
PERLND	16	0.65	COPY	506	13
IMPLND	1	4.78	COPY	506	15
OS-44***					
PERLND	16	0.44	COPY	507	12
PERLND	16	0.44	COPY	507	13
IMPLND	1	3.27	COPY	507	15
OS-92***					
PERLND	16	0.2	COPY	508	12
PERLND	16	0.2	COPY	508	13
IMPLND	1	0.18	COPY	508	15
OS-89***					
PERLND	16	0.78	COPY	509	12
PERLND	16	0.78	COPY	509	13
IMPLND	1	0.72	COPY	509	15
OS-86***					
PERLND	16	2.02	COPY	510	12
PERLND	16	2.02	COPY	510	13
IMPLND	1	1.86	COPY	510	15
OS-83***					
PERLND	16	7.07	COPY	511	12
PERLND	16	7.07	COPY	511	13
IMPLND	1	6.53	COPY	511	15
OS-81***					
PERLND	16	6.15	COPY	512	12
PERLND	16	6.15	COPY	512	13
IMPLND	1	5.67	COPY	512	15
OS-76***					
PERLND	16	8.21	COPY	513	12
PERLND	16	8.21	COPY	513	13
IMPLND	1	8.4	COPY	513	15
OS-70***					
PERLND	16	10.03	COPY	514	12
PERLND	16	10.03	COPY	514	13
IMPLND	1	11.06	COPY	514	15
OS-75***					
PERLND	16	0.65	COPY	515	12
PERLND	16	0.65	COPY	515	13
IMPLND	1	4.75	COPY	515	15
OS-26***					
PERLND	16	0.46	COPY	516	12
PERLND	16	0.46	COPY	516	13
IMPLND	1	3.44	COPY	516	15
OS-16***					
PERLND	16	0.33	COPY	517	12
PERLND	16	0.33	COPY	517	13
IMPLND	1	1.45	COPY	517	15
OS-14***					
PERLND	16	1.15	COPY	518	12
PERLND	16	1.15	COPY	518	13
PERLND	10	2.28	COPY	518	12
PERLND	10	2.28	COPY	518	13
IMPLND	1	4.15	COPY	518	15
OS-5***					
PERLND	16	1.52	COPY	519	12
PERLND	16	1.52	COPY	519	13
IMPLND	1	1.4	COPY	519	15


```

OS-4***
PERLND 16          2.39      COPY  520   12
PERLND 16          2.39      COPY  520   13
IMPLND 1           2.21      COPY  520   15
OS-3***
PERLND 10          2.26      COPY  521   12
PERLND 10          2.26      COPY  521   13
PERLND 16          0.02      COPY  521   12
PERLND 16          0.02      COPY  521   13
OS-2***
PERLND 10          0.36      COPY  522   12
PERLND 10          0.36      COPY  522   13
OS-1***
PERLND 10          0.53      COPY  523   12
PERLND 10          0.53      COPY  523   13

```

```

*****Routing*****
END SCHEMATIC

```

NETWORK

```

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
COPY 501 OUTPUT MEAN 1 1 48.4 DISPLY 1 INPUT TIMSER 1
COPY 502 OUTPUT MEAN 1 1 48.4 DISPLY 2 INPUT TIMSER 1
COPY 503 OUTPUT MEAN 1 1 48.4 DISPLY 3 INPUT TIMSER 1
COPY 504 OUTPUT MEAN 1 1 48.4 DISPLY 4 INPUT TIMSER 1
COPY 505 OUTPUT MEAN 1 1 48.4 DISPLY 5 INPUT TIMSER 1
COPY 506 OUTPUT MEAN 1 1 48.4 DISPLY 6 INPUT TIMSER 1
COPY 507 OUTPUT MEAN 1 1 48.4 DISPLY 7 INPUT TIMSER 1
COPY 508 OUTPUT MEAN 1 1 48.4 DISPLY 8 INPUT TIMSER 1
COPY 509 OUTPUT MEAN 1 1 48.4 DISPLY 9 INPUT TIMSER 1
COPY 510 OUTPUT MEAN 1 1 48.4 DISPLY 10 INPUT TIMSER 1
COPY 511 OUTPUT MEAN 1 1 48.4 DISPLY 11 INPUT TIMSER 1
COPY 512 OUTPUT MEAN 1 1 48.4 DISPLY 12 INPUT TIMSER 1
COPY 513 OUTPUT MEAN 1 1 48.4 DISPLY 13 INPUT TIMSER 1
COPY 514 OUTPUT MEAN 1 1 48.4 DISPLY 14 INPUT TIMSER 1
COPY 515 OUTPUT MEAN 1 1 48.4 DISPLY 15 INPUT TIMSER 1
COPY 516 OUTPUT MEAN 1 1 48.4 DISPLY 16 INPUT TIMSER 1
COPY 517 OUTPUT MEAN 1 1 48.4 DISPLY 17 INPUT TIMSER 1
COPY 518 OUTPUT MEAN 1 1 48.4 DISPLY 18 INPUT TIMSER 1
COPY 519 OUTPUT MEAN 1 1 48.4 DISPLY 19 INPUT TIMSER 1
COPY 520 OUTPUT MEAN 1 1 48.4 DISPLY 20 INPUT TIMSER 1
COPY 521 OUTPUT MEAN 1 1 48.4 DISPLY 21 INPUT TIMSER 1
COPY 522 OUTPUT MEAN 1 1 48.4 DISPLY 22 INPUT TIMSER 1
COPY 523 OUTPUT MEAN 1 1 48.4 DISPLY 23 INPUT TIMSER 1

```

```

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
END NETWORK

```

RCHRES

```

GEN-INFO
RCHRES      Name      Nexits  Unit Systems  Printer      ***
# - #<-----><----> User T-series Engl Metr LKFG      ***
                                in out      ***
END GEN-INFO
*** Section RCHRES***

```

ACTIVITY

```

<PLS > ***** Active Sections *****
# - # HYFG ADFG CNFG HTFG SDFG GQFG OXFG NUFQ PKFG PHFG ***
END ACTIVITY

```

PRINT-INFO

```

<PLS > ***** Print-flags ***** PIVL PYR
# - # HYDR ADCA CONS HEAT SED GQL OXRX NUTR PLNK PHCB PIVL PYR *****
END PRINT-INFO

```

```

HYDR-PARM1
  RCHRES   Flags for each HYDR Section                                     ***
  # - #   VC A1 A2 A3  ODFVFG for each *** ODGTFG for each  FUNCT for each
            FG FG FG FG  possible exit *** possible exit  possible exit
            * * * *   * * * * *   * * * * *   ***
END HYDR-PARM1

HYDR-PARM2
  # - #   FTABNO      LEN      DELTH      STCOR      KS      DB50      ***
<-----><-----><-----><-----><-----><-----><----->      ***
END HYDR-PARM2

HYDR-INIT
  RCHRES   Initial conditions for each HYDR section                       ***
  # - #   *** VOL      Initial value of COLIND      Initial value of OUTDGT
            *** ac-ft      for each possible exit      for each possible exit
  <-----><----->      <---><---><---><---><---> *** <---><---><---><---><--->
END HYDR-INIT
END RCHRES

SPEC-ACTIONS
END SPEC-ACTIONS
FTABLES
END FTABLES

EXT SOURCES
<-Volume-> <Member> SsysSgap<--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # tem strg<-factor-->strg <Name> # # <Name> # # ***
WDM      2 PREC      ENGL      1.1      PERLND  1 999 EXTNL PREC
WDM      2 PREC      ENGL      1.1      IMPLND  1 999 EXTNL PREC
WDM      1 EVAP      ENGL      0.76     PERLND  1 999 EXTNL PETINP
WDM      1 EVAP      ENGL      0.76     IMPLND  1 999 EXTNL PETINP

END EXT SOURCES

EXT TARGETS
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Volume-> <Member> Tsys Tgap Amd ***
<Name> # <Name> # #<-factor-->strg <Name> # <Name> tem strg strg***
COPY    501 OUTPUT MEAN  1 1      48.4     WDM     501 FLOW ENGL REPL
COPY    502 OUTPUT MEAN  1 1      48.4     WDM     502 FLOW ENGL REPL
COPY    503 OUTPUT MEAN  1 1      48.4     WDM     503 FLOW ENGL REPL
COPY    504 OUTPUT MEAN  1 1      48.4     WDM     504 FLOW ENGL REPL
COPY    505 OUTPUT MEAN  1 1      48.4     WDM     505 FLOW ENGL REPL
COPY    506 OUTPUT MEAN  1 1      48.4     WDM     506 FLOW ENGL REPL
COPY    507 OUTPUT MEAN  1 1      48.4     WDM     507 FLOW ENGL REPL
COPY    508 OUTPUT MEAN  1 1      48.4     WDM     508 FLOW ENGL REPL
COPY    509 OUTPUT MEAN  1 1      48.4     WDM     509 FLOW ENGL REPL
COPY    510 OUTPUT MEAN  1 1      48.4     WDM     510 FLOW ENGL REPL
COPY    511 OUTPUT MEAN  1 1      48.4     WDM     511 FLOW ENGL REPL
COPY    512 OUTPUT MEAN  1 1      48.4     WDM     512 FLOW ENGL REPL
COPY    513 OUTPUT MEAN  1 1      48.4     WDM     513 FLOW ENGL REPL
COPY    514 OUTPUT MEAN  1 1      48.4     WDM     514 FLOW ENGL REPL
COPY    515 OUTPUT MEAN  1 1      48.4     WDM     515 FLOW ENGL REPL
COPY    516 OUTPUT MEAN  1 1      48.4     WDM     516 FLOW ENGL REPL
COPY    517 OUTPUT MEAN  1 1      48.4     WDM     517 FLOW ENGL REPL
COPY    518 OUTPUT MEAN  1 1      48.4     WDM     518 FLOW ENGL REPL
COPY    519 OUTPUT MEAN  1 1      48.4     WDM     519 FLOW ENGL REPL
COPY    520 OUTPUT MEAN  1 1      48.4     WDM     520 FLOW ENGL REPL
COPY    521 OUTPUT MEAN  1 1      48.4     WDM     521 FLOW ENGL REPL
COPY    522 OUTPUT MEAN  1 1      48.4     WDM     522 FLOW ENGL REPL
COPY    523 OUTPUT MEAN  1 1      48.4     WDM     523 FLOW ENGL REPL
END EXT TARGETS

MASS-LINK
<Volume> <-Grp> <-Member-><--Mult--> <Target> <-Grp> <-Member->***
<Name> <Name> # #<-factor--> <Name> <Name> # #***
MASS-LINK 12
PERLND PWATER SURO 0.083333 COPY INPUT MEAN
END MASS-LINK

MASS-LINK 13

```

PERLND	PWATER	IFWO	0.083333	COPY	INPUT	MEAN
END MASS-LINK		13				
MASS-LINK		15				
IMPLND	IWATER	SURO	0.083333	COPY	INPUT	MEAN
END MASS-LINK		15				

END MASS-LINK

END RUN

Mitigated UCI File

RUN

GLOBAL

```
WVHM4 model simulation
START      1955 10 01      END      2009 09 30
RUN INTERP OUTPUT LEVEL   3      0
RESUME     0 RUN          1
UNIT SYSTEM                                1
END GLOBAL
```

FILES

```
<File>  <Un#>  <-----File Name----->***
<-ID->                                     ***
WDM      26     WVHM K-STREET REPORT.wdm
MESSU    25     MitWVHM K-STREET REPORT.MES
          27     MitWVHM K-STREET REPORT.L61
          28     MitWVHM K-STREET REPORT.L62
          30     POCWVHM K-STREET REPORT1.dat
          31     POCWVHM K-STREET REPORT2.dat
          32     POCWVHM K-STREET REPORT3.dat
          33     POCWVHM K-STREET REPORT4.dat
          34     POCWVHM K-STREET REPORT5.dat
          35     POCWVHM K-STREET REPORT6.dat
          36     POCWVHM K-STREET REPORT7.dat
          37     POCWVHM K-STREET REPORT8.dat
          38     POCWVHM K-STREET REPORT9.dat
          39     POCWVHM K-STREET REPORT10.dat
          40     POCWVHM K-STREET REPORT11.dat
          41     POCWVHM K-STREET REPORT12.dat
          42     POCWVHM K-STREET REPORT13.dat
          43     POCWVHM K-STREET REPORT14.dat
          44     POCWVHM K-STREET REPORT15.dat
          45     POCWVHM K-STREET REPORT16.dat
          46     POCWVHM K-STREET REPORT17.dat
          47     POCWVHM K-STREET REPORT18.dat
          48     POCWVHM K-STREET REPORT19.dat
          49     POCWVHM K-STREET REPORT20.dat
          50     POCWVHM K-STREET REPORT21.dat
          51     POCWVHM K-STREET REPORT22.dat
          52     POCWVHM K-STREET REPORT23.dat
```

END FILES

OPN SEQUENCE

```
INGRP      INDELT 00:15
PERLND     16
IMPLND     1
PERLND     10
COPY       501
COPY       502
COPY       503
COPY       504
COPY       505
COPY       506
COPY       507
COPY       508
COPY       509
COPY       510
COPY       511
COPY       512
COPY       513
COPY       514
COPY       515
COPY       516
COPY       517
COPY       518
COPY       519
COPY       520
COPY       521
COPY       522
```

COPY 523
 DISPLY 1
 DISPLY 2
 DISPLY 3
 DISPLY 4
 DISPLY 5
 DISPLY 6
 DISPLY 7
 DISPLY 8
 DISPLY 9
 DISPLY 10
 DISPLY 11
 DISPLY 12
 DISPLY 13
 DISPLY 14
 DISPLY 15
 DISPLY 16
 DISPLY 17
 DISPLY 18
 DISPLY 19
 DISPLY 20
 DISPLY 21
 DISPLY 22
 DISPLY 23

END INGRP

END OPN SEQUENCE

DISPLY

DISPLY-INFO1

#	-	#	<-----Title----->	***TRAN	PIVL	DIG1	FIL1	PYR	DIG2	FIL2	YRND
1			OS-41	MAX				1	2	30	9
2			OS-38	MAX				1	2	31	9
3			OS-25	MAX				1	2	32	9
4			OS-24	MAX				1	2	33	9
5			OS-4A	MAX				1	2	34	9
6			OS-31	MAX				1	2	35	9
7			OS-44	MAX				1	2	36	9
8			OS-92	MAX				1	2	37	9
9			OS-89	MAX				1	2	38	9
10			OS-86	MAX				1	2	39	9
11			OS-83	MAX				1	2	40	9
12			OS-81	MAX				1	2	41	9
13			OS-76	MAX				1	2	42	9
14			OS-70	MAX				1	2	43	9
15			OS-75	MAX				1	2	44	9
16			OS-26	MAX				1	2	45	9
17			OS-16	MAX				1	2	46	9
18			OS-14	MAX				1	2	47	9
19			OS-5	MAX				1	2	48	9
20			OS-4	MAX				1	2	49	9
21			OS-3	MAX				1	2	50	9
22			OS-2	MAX				1	2	51	9
23			OS-1	MAX				1	2	52	9

END DISPLY-INFO1

END DISPLY

COPY

TIMESERIES

#	-	#	NPT	NMN	***
1			1	1	
501			1	1	
502			1	1	
503			1	1	
504			1	1	
505			1	1	
506			1	1	
507			1	1	
508			1	1	
509			1	1	
510			1	1	
511			1	1	
512			1	1	

```

513      1      1
514      1      1
515      1      1
516      1      1
517      1      1
518      1      1
519      1      1
520      1      1
521      1      1
522      1      1
523      1      1

```

END TIMESERIES

END COPY

GENER

OPCODE

```
#      # OPCD ***
```

END OPCODE

PARM

```
#      #          K ***
```

END PARM

END GENER

PERLND

GEN-INFO

```

<PLS ><-----Name----->NBLKS      Unit-systems      Printer ***
# - #                               User  t-series  Engr Metr ***
                               in  out
16      C, Lawn, Flat             1      1      1      1      27      0
10      C, Forest, Flat           1      1      1      1      27      0

```

END GEN-INFO

*** Section PWATER***

ACTIVITY

```

<PLS > ***** Active Sections *****
# - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC ***
16      0      0      1      0      0      0      0      0      0      0      0      0
10      0      0      1      0      0      0      0      0      0      0      0      0

```

END ACTIVITY

PRINT-INFO

```

<PLS > ***** Print-flags ***** PIVL  PYR
# - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC *****
16      0      0      4      0      0      0      0      0      0      0      0      0      1      9
10      0      0      4      0      0      0      0      0      0      0      0      0      1      9

```

END PRINT-INFO

PWAT-PARM1

```

<PLS > PWATER variable monthly parameter value flags ***
# - # CSNO RTOP UZFG  VCS  VUZ  VMN  VIFW  VIRC  VLE  INFC  HWT ***
16      0      0      0      0      0      0      0      0      0      0      0
10      0      0      0      0      0      0      0      0      0      0      0

```

END PWAT-PARM1

PWAT-PARM2

```

<PLS > PWATER input info: Part 2      ***
# - # ***FOREST  LZSN  INFILT  LSUR  SLSUR  KVARY  AGWRC
16      0          4.5    0.03  400    0.05    0.5    0.996
10      0          4.5    0.08  400    0.05    0.5    0.996

```

END PWAT-PARM2

PWAT-PARM3

```

<PLS > PWATER input info: Part 3      ***
# - # ***PETMAX  PETMIN  INFEXP  INFILD  DEEPFR  BASETP  AGWETP
16      0          0          2          2          0          0          0
10      0          0          2          2          0          0          0

```

END PWAT-PARM3

PWAT-PARM4

```

<PLS > PWATER input info: Part 4      ***
# - # CEPSC  UZSN  NSUR  INTFW  IRC  LZETP ***
16      0.1    0.25  0.25  6      0.5  0.25
10      0.2    0.5   0.35  6      0.5  0.7

```

END PWAT-PARM4

PWAT-STATE1

```

<PLS > *** Initial conditions at start of simulation
          ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
# - # *** CEPS      SURS      UZS      IFWS      LZS      AGWS      GWVS
16      0          0          0          0          2.5      1          0
10      0          0          0          0          2.5      1          0

```

END PWAT-STATE1

END PERLND

IMPLND

GEN-INFO

```

<PLS ><-----Name----->   Unit-systems   Printer ***
# - #                          User  t-series Engl Metr ***
                               in  out          ***
1      ROADS/FLAT              1    1    1    27    0

```

END GEN-INFO

*** Section IWATER***

ACTIVITY

```

<PLS > ***** Active Sections *****
# - # ATMP SNOW IWAT  SLD  IWG IQAL  ***
1      0      0      1      0      0      0

```

END ACTIVITY

PRINT-INFO

```

<ILS > ***** Print-flags ***** PIVL  PYR
# - # ATMP SNOW IWAT  SLD  IWG IQAL  *****
1      0      0      4      0      0      0      1      9

```

END PRINT-INFO

IWAT-PARM1

```

<PLS > IWATER variable monthly parameter value flags ***
# - # CSNO RTOP  VRS  VNN RTLI  ***
1      0      0      0      0      0

```

END IWAT-PARM1

IWAT-PARM2

```

<PLS > IWATER input info: Part 2 ***
# - # *** LSUR      SLSUR      NSUR      RETSC
1      400      0.01      0.1      0.1

```

END IWAT-PARM2

IWAT-PARM3

```

<PLS > IWATER input info: Part 3 ***
# - # ***PETMAX      PETMIN
1      0          0

```

END IWAT-PARM3

IWAT-STATE1

```

<PLS > *** Initial conditions at start of simulation
# - # *** RETS      SURS
1      0          0

```

END IWAT-STATE1

END IMPLND

SCHEMATIC

```

<-Source->          <--Area-->          <-Target->          MBLK      ***
<Name> #           <-factor->          <Name> #           Tbl#      ***
OS-41***
PERLND 16           2.61           COPY 501           12
PERLND 16           2.61           COPY 501           13
IMPLND 1            2.4            COPY 501           15
OS-38***
PERLND 16           0.88           COPY 502           12
PERLND 16           0.88           COPY 502           13
IMPLND 1            0.81           COPY 502           15

```

OS-25***					
PERLND	16	1.21	COPY	503	12
PERLND	16	1.21	COPY	503	13
IMPLND	1	1.11	COPY	503	15
OS-24***					
PERLND	16	0.52	COPY	504	12
PERLND	16	0.52	COPY	504	13
IMPLND	1	0.47	COPY	504	15
OS-4A***					
PERLND	16	0.4	COPY	505	12
PERLND	16	0.4	COPY	505	13
IMPLND	1	0.36	COPY	505	15
OS-31***					
PERLND	16	0.65	COPY	506	12
PERLND	16	0.65	COPY	506	13
IMPLND	1	4.78	COPY	506	15
OS-44***					
PERLND	16	0.44	COPY	507	12
PERLND	16	0.44	COPY	507	13
IMPLND	1	3.27	COPY	507	15
OS-92***					
PERLND	16	0.2	COPY	508	12
PERLND	16	0.2	COPY	508	13
IMPLND	1	0.18	COPY	508	15
OS-89***					
PERLND	16	0.78	COPY	509	12
PERLND	16	0.78	COPY	509	13
IMPLND	1	0.72	COPY	509	15
OS-86***					
PERLND	16	2.02	COPY	510	12
PERLND	16	2.02	COPY	510	13
IMPLND	1	1.86	COPY	510	15
OS-83***					
PERLND	16	7.07	COPY	511	12
PERLND	16	7.07	COPY	511	13
IMPLND	1	6.53	COPY	511	15
OS-81***					
PERLND	16	6.15	COPY	512	12
PERLND	16	6.15	COPY	512	13
IMPLND	1	5.67	COPY	512	15
OS-76***					
PERLND	16	8.21	COPY	513	12
PERLND	16	8.21	COPY	513	13
IMPLND	1	8.4	COPY	513	15
OS-70***					
PERLND	16	10.03	COPY	514	12
PERLND	16	10.03	COPY	514	13
IMPLND	1	11.06	COPY	514	15
OS-75***					
PERLND	16	0.65	COPY	515	12
PERLND	16	0.65	COPY	515	13
IMPLND	1	4.75	COPY	515	15
OS-26***					
PERLND	16	0.46	COPY	516	12
PERLND	16	0.46	COPY	516	13
IMPLND	1	3.44	COPY	516	15
OS-16***					
PERLND	16	0.33	COPY	517	12
PERLND	16	0.33	COPY	517	13
IMPLND	1	1.45	COPY	517	15
OS-14***					
PERLND	10	2.28	COPY	518	12
PERLND	10	2.28	COPY	518	13
PERLND	16	1.15	COPY	518	12
PERLND	16	1.15	COPY	518	13
IMPLND	1	4.15	COPY	518	15
OS-5***					
PERLND	16	1.52	COPY	519	12
PERLND	16	1.52	COPY	519	13
IMPLND	1	1.4	COPY	519	15


```

OS-4***
PERLND 16          2.39      COPY  520   12
PERLND 16          2.39      COPY  520   13
IMPLND  1          2.21      COPY  520   15
OS-3***
PERLND 10          2.26      COPY  521   12
PERLND 10          2.26      COPY  521   13
PERLND 16          0.02      COPY  521   12
PERLND 16          0.02      COPY  521   13
OS-2***
PERLND 10          0.36      COPY  522   12
PERLND 10          0.36      COPY  522   13
OS-1***
PERLND 10          0.53      COPY  523   12
PERLND 10          0.53      COPY  523   13

```

```

*****Routing*****
END SCHEMATIC

```

NETWORK

```

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
COPY 501 OUTPUT MEAN 1 1 48.4 DISPLY 1 INPUT TIMSER 1
COPY 502 OUTPUT MEAN 1 1 48.4 DISPLY 2 INPUT TIMSER 1
COPY 503 OUTPUT MEAN 1 1 48.4 DISPLY 3 INPUT TIMSER 1
COPY 504 OUTPUT MEAN 1 1 48.4 DISPLY 4 INPUT TIMSER 1
COPY 505 OUTPUT MEAN 1 1 48.4 DISPLY 5 INPUT TIMSER 1
COPY 506 OUTPUT MEAN 1 1 48.4 DISPLY 6 INPUT TIMSER 1
COPY 507 OUTPUT MEAN 1 1 48.4 DISPLY 7 INPUT TIMSER 1
COPY 508 OUTPUT MEAN 1 1 48.4 DISPLY 8 INPUT TIMSER 1
COPY 509 OUTPUT MEAN 1 1 48.4 DISPLY 9 INPUT TIMSER 1
COPY 510 OUTPUT MEAN 1 1 48.4 DISPLY 10 INPUT TIMSER 1
COPY 511 OUTPUT MEAN 1 1 48.4 DISPLY 11 INPUT TIMSER 1
COPY 512 OUTPUT MEAN 1 1 48.4 DISPLY 12 INPUT TIMSER 1
COPY 513 OUTPUT MEAN 1 1 48.4 DISPLY 13 INPUT TIMSER 1
COPY 514 OUTPUT MEAN 1 1 48.4 DISPLY 14 INPUT TIMSER 1
COPY 515 OUTPUT MEAN 1 1 48.4 DISPLY 15 INPUT TIMSER 1
COPY 516 OUTPUT MEAN 1 1 48.4 DISPLY 16 INPUT TIMSER 1
COPY 517 OUTPUT MEAN 1 1 48.4 DISPLY 17 INPUT TIMSER 1
COPY 518 OUTPUT MEAN 1 1 48.4 DISPLY 18 INPUT TIMSER 1
COPY 519 OUTPUT MEAN 1 1 48.4 DISPLY 19 INPUT TIMSER 1
COPY 520 OUTPUT MEAN 1 1 48.4 DISPLY 20 INPUT TIMSER 1
COPY 521 OUTPUT MEAN 1 1 48.4 DISPLY 21 INPUT TIMSER 1
COPY 522 OUTPUT MEAN 1 1 48.4 DISPLY 22 INPUT TIMSER 1
COPY 523 OUTPUT MEAN 1 1 48.4 DISPLY 23 INPUT TIMSER 1

```

```

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
END NETWORK

```

RCHRES

```

GEN-INFO
RCHRES      Name      Nexits  Unit Systems  Printer      ***
# - #<-----><----> User T-series Engl Metr LKFG      ***
                                in out      ***
END GEN-INFO
*** Section RCHRES***

```

ACTIVITY

```

<PLS > ***** Active Sections *****
# - # HYFG ADFG CNFG HTFG SDFG GQFG OXFG NUFQ PKFG PHFG ***
END ACTIVITY

```

PRINT-INFO

```

<PLS > ***** Print-flags ***** PIVL PYR
# - # HYDR ADCA CONS HEAT SED GQL OXRX NUTR PLNK PHCB PIVL PYR *****
END PRINT-INFO

```

```

HYDR-PARM1
RCHRES  Flags for each HYDR Section ***
# - # VC A1 A2 A3 ODFVFG for each *** ODGTFG for each FUNCT for each
      FG FG FG FG possible exit *** possible exit possible exit
      * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
END HYDR-PARM1

```

```

HYDR-PARM2
# - # FTABNO LEN DELTH STCOR KS DB50 ***
<-----><-----><-----><-----><-----><-----><-----> ***
END HYDR-PARM2

```

```

HYDR-INIT
RCHRES  Initial conditions for each HYDR section ***
# - # *** VOL Initial value of COLIND Initial value of OUTDGT
      *** ac-ft for each possible exit for each possible exit
<-----><-----> <-----><-----><-----><-----> *** <-----><-----><-----><-----><----->
END HYDR-INIT
END RCHRES

```

```

SPEC-ACTIONS
END SPEC-ACTIONS
FTABLES
END FTABLES

```

```

EXT SOURCES
<-Volume-> <Member> SsysSgap<--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # tem strg<-factor-->strg <Name> # # <Name> # # ***
WDM 2 PREC ENGL 1.1 PERLND 1 999 EXTNL PREC
WDM 2 PREC ENGL 1.1 IMPLND 1 999 EXTNL PREC
WDM 1 EVAP ENGL 0.76 PERLND 1 999 EXTNL PETINP
WDM 1 EVAP ENGL 0.76 IMPLND 1 999 EXTNL PETINP
END EXT SOURCES

```

```

EXT TARGETS
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Volume-> <Member> Tsys Tgap Amd ***
<Name> # <Name> # #<-factor-->strg <Name> # <Name> tem strg strg***
COPY 1 OUTPUT MEAN 1 1 48.4 WDM 701 FLOW ENGL REPL
COPY 501 OUTPUT MEAN 1 1 48.4 WDM 801 FLOW ENGL REPL
COPY 2 OUTPUT MEAN 1 1 48.4 WDM 702 FLOW ENGL REPL
COPY 502 OUTPUT MEAN 1 1 48.4 WDM 802 FLOW ENGL REPL
COPY 3 OUTPUT MEAN 1 1 48.4 WDM 703 FLOW ENGL REPL
COPY 503 OUTPUT MEAN 1 1 48.4 WDM 803 FLOW ENGL REPL
COPY 4 OUTPUT MEAN 1 1 48.4 WDM 704 FLOW ENGL REPL
COPY 504 OUTPUT MEAN 1 1 48.4 WDM 804 FLOW ENGL REPL
COPY 5 OUTPUT MEAN 1 1 48.4 WDM 705 FLOW ENGL REPL
COPY 505 OUTPUT MEAN 1 1 48.4 WDM 805 FLOW ENGL REPL
COPY 6 OUTPUT MEAN 1 1 48.4 WDM 706 FLOW ENGL REPL
COPY 506 OUTPUT MEAN 1 1 48.4 WDM 806 FLOW ENGL REPL
COPY 7 OUTPUT MEAN 1 1 48.4 WDM 707 FLOW ENGL REPL
COPY 507 OUTPUT MEAN 1 1 48.4 WDM 807 FLOW ENGL REPL
COPY 8 OUTPUT MEAN 1 1 48.4 WDM 708 FLOW ENGL REPL
COPY 508 OUTPUT MEAN 1 1 48.4 WDM 808 FLOW ENGL REPL
COPY 9 OUTPUT MEAN 1 1 48.4 WDM 709 FLOW ENGL REPL
COPY 509 OUTPUT MEAN 1 1 48.4 WDM 809 FLOW ENGL REPL
COPY 10 OUTPUT MEAN 1 1 48.4 WDM 710 FLOW ENGL REPL
COPY 510 OUTPUT MEAN 1 1 48.4 WDM 810 FLOW ENGL REPL
COPY 11 OUTPUT MEAN 1 1 48.4 WDM 711 FLOW ENGL REPL
COPY 511 OUTPUT MEAN 1 1 48.4 WDM 811 FLOW ENGL REPL
COPY 12 OUTPUT MEAN 1 1 48.4 WDM 712 FLOW ENGL REPL
COPY 512 OUTPUT MEAN 1 1 48.4 WDM 812 FLOW ENGL REPL
COPY 13 OUTPUT MEAN 1 1 48.4 WDM 713 FLOW ENGL REPL
COPY 513 OUTPUT MEAN 1 1 48.4 WDM 813 FLOW ENGL REPL
COPY 14 OUTPUT MEAN 1 1 48.4 WDM 714 FLOW ENGL REPL
COPY 514 OUTPUT MEAN 1 1 48.4 WDM 814 FLOW ENGL REPL
COPY 15 OUTPUT MEAN 1 1 48.4 WDM 715 FLOW ENGL REPL
COPY 515 OUTPUT MEAN 1 1 48.4 WDM 815 FLOW ENGL REPL
COPY 16 OUTPUT MEAN 1 1 48.4 WDM 716 FLOW ENGL REPL
COPY 516 OUTPUT MEAN 1 1 48.4 WDM 816 FLOW ENGL REPL
COPY 17 OUTPUT MEAN 1 1 48.4 WDM 717 FLOW ENGL REPL

```

COPY	517	OUTPUT	MEAN	1	1	48.4	WDM	817	FLOW	ENGL	REPL
COPY	18	OUTPUT	MEAN	1	1	48.4	WDM	718	FLOW	ENGL	REPL
COPY	518	OUTPUT	MEAN	1	1	48.4	WDM	818	FLOW	ENGL	REPL
COPY	19	OUTPUT	MEAN	1	1	48.4	WDM	719	FLOW	ENGL	REPL
COPY	519	OUTPUT	MEAN	1	1	48.4	WDM	819	FLOW	ENGL	REPL
COPY	20	OUTPUT	MEAN	1	1	48.4	WDM	720	FLOW	ENGL	REPL
COPY	520	OUTPUT	MEAN	1	1	48.4	WDM	820	FLOW	ENGL	REPL
COPY	21	OUTPUT	MEAN	1	1	48.4	WDM	721	FLOW	ENGL	REPL
COPY	521	OUTPUT	MEAN	1	1	48.4	WDM	821	FLOW	ENGL	REPL
COPY	22	OUTPUT	MEAN	1	1	48.4	WDM	722	FLOW	ENGL	REPL
COPY	522	OUTPUT	MEAN	1	1	48.4	WDM	822	FLOW	ENGL	REPL
COPY	23	OUTPUT	MEAN	1	1	48.4	WDM	723	FLOW	ENGL	REPL
COPY	523	OUTPUT	MEAN	1	1	48.4	WDM	823	FLOW	ENGL	REPL

END EXT TARGETS

MASS-LINK

<Volume>	<-Grp>	<-Member-><--Mult-->	<Target>	<-Grp>	<-Member->***
<Name>	<Name>	# #<-factor->	<Name>	<Name>	# #***
MASS-LINK		12			
PERLND	PWATER	SURO	0.083333	COPY	INPUT MEAN
END MASS-LINK		12			
MASS-LINK		13			
PERLND	PWATER	IFWO	0.083333	COPY	INPUT MEAN
END MASS-LINK		13			
MASS-LINK		15			
IMPLND	IWATER	SURO	0.083333	COPY	INPUT MEAN
END MASS-LINK		15			

END MASS-LINK

END RUN

Predeveloped HSPF Message File

Mitigated HSPF Message File

Disclaimer

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Adams Street Basin WWHM Modeling Report (1)

WWHM2012 PROJECT REPORT

Project Name: Adam's street pump station basin 1
Site Name: 10th street basin
Site Address:
City :
Report Date: 9/5/2019
Gage : Montesano
Data Start : 1955/10/01
Data End : 2009/09/30
Precip Scale: 1.00
Version : 2013/09/11

Low Flow Threshold for POC 1 : 50 Percent of the 2 Year

High Flow Threshold for POC 1: 50 year

Low Flow Threshold for POC 2 : 50 Percent of the 2 Year

High Flow Threshold for POC 2: 50 year

Low Flow Threshold for POC 3 : 50 Percent of the 2 Year

High Flow Threshold for POC 3: 50 year

Low Flow Threshold for POC 4 : 50 Percent of the 2 Year

High Flow Threshold for POC 4: 50 year

Low Flow Threshold for POC 5 : 50 Percent of the 2 Year

High Flow Threshold for POC 5: 50 year

Low Flow Threshold for POC 6 : 50 Percent of the 2 Year

High Flow Threshold for POC 6: 50 year

Low Flow Threshold for POC 7 : 50 Percent of the 2 Year

High Flow Threshold for POC 7: 50 year

Low Flow Threshold for POC 8 : 50 Percent of the 2 Year

High Flow Threshold for POC 8: 50 year

Low Flow Threshold for POC 9 : 50 Percent of the 2 Year

High Flow Threshold for POC 9: 50 year

Low Flow Threshold for POC 10 : 50 Percent of the 2 Year

High Flow Threshold for POC 10: 50 year

Low Flow Threshold for POC 11 : 50 Percent of the 2 Year

High Flow Threshold for POC 11: 50 year

Low Flow Threshold for POC 12 : 50 Percent of the 2 Year

High Flow Threshold for POC 12: 50 year

Low Flow Threshold for POC 13 : 50 Percent of the 2 Year

High Flow Threshold for POC 13: 50 year

PREDEVELOPED LAND USE

Name : NODE 1

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Forest, Steep	1.094
C, Lawn, Flat	.259

Pervious Total 1.353

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.365

Impervious Total 0.365

Basin Total 1.718

Element Flows To:
Surface Interflow Groundwater

Name : CBSD 29
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	1.031
C, Forest, Steep	1.932
Pervious Total	2.963
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.765
Impervious Total	0.765
Basin Total	3.728

Element Flows To:
Surface Interflow Groundwater

Name : NODE 2
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.043
Impervious Total	0.043
Basin Total	0.043

Element Flows To:
Surface Interflow Groundwater

Name : SD 28

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Forest, Steep	1.568
C, Lawn, Mod	.86

Pervious Total 2.428

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS MOD	2.647

Impervious Total 2.647

Basin Total 5.075

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 27

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
	0

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.089

Impervious Total 0.089

Basin Total 0.089

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 26

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.631
Pervious Total	0.631
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.601
Impervious Total	0.601
Basin Total	1.232

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 18

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.492
Pervious Total	0.492
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.044
Impervious Total	1.044
Basin Total	1.536

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 17

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
--------------------------	--------------

C, Lawn, Flat	2.112
Pervious Total	2.112
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.345
Impervious Total	0.345
Basin Total	2.457

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 3
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	1.261
Pervious Total	1.261
<u>Impervious Land Use</u>	<u>Acres</u>
Impervious Total	0
Basin Total	1.261

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 11
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.149
Pervious Total	0.149
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.178

Impervious Total 0.178
Basin Total 0.327

Element Flows To:
Surface Interflow Groundwater

Name : NODE 4
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.134
Pervious Total	0.134
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.373
Impervious Total	0.373
Basin Total	0.507

Element Flows To:
Surface Interflow Groundwater

Name : NODE 5
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.847
Impervious Total	1.847
Basin Total	1.847

Element Flows To:
Surface Interflow Groundwater

Name : SD 10
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.112
Pervious Total	0.112
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.305
Impervious Total	0.305
Basin Total	0.417

Element Flows To:
Surface Interflow Groundwater

MITIGATED LAND USE

Name : NODE 1
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Forest, Steep	1.094
C, Lawn, Flat	.259
Pervious Total	1.353
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.365
Impervious Total	0.365
Basin Total	1.718

Element Flows To:
Surface Interflow Groundwater

Name : CBSD 29

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	1.031
C, Forest, Steep	1.932
Pervious Total	2.963
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.765
Impervious Total	0.765
Basin Total	3.728

Element Flows To:
Surface Interflow Groundwater

Name : NODE 2

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.043
Impervious Total	0.043
Basin Total	0.043

Element Flows To:
Surface Interflow Groundwater

Name : SD 28
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Forest, Steep	1.568
C, Lawn, Mod	.86

Pervious Total 2.428

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS MOD	2.647

Impervious Total 2.647

Basin Total 5.075

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 27
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.089

Impervious Total 0.089

Basin Total 0.089

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 26
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.631
Pervious Total	0.631
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.601
Impervious Total	0.601
Basin Total	1.232

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 18
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.492
Pervious Total	0.492
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.044
Impervious Total	1.044
Basin Total	1.536

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 17
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	2.112
Pervious Total	2.112

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.345
Impervious Total	0.345
Basin Total	2.457

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 3
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	1.261

Pervious Total	1.261
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<u>Impervious Land Use</u>	<u>Acres</u>
Impervious Total	0

Basin Total	1.261
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Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 11
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.149

Pervious Total	0.149
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<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.178

Impervious Total	0.178
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Basin Total 0.327

Element Flows To:
Surface Interflow Groundwater

Name : NODE 4

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.134
Pervious Total	0.134
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.373
Impervious Total	0.373
Basin Total	0.507

Element Flows To:
Surface Interflow Groundwater

Name : NODE 5

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.847
Impervious Total	1.847
Basin Total	1.847

Element Flows To:

Surface Interflow Groundwater

Name : SD 10

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.112
Pervious Total	0.112
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.305
Impervious Total	0.305
Basin Total	0.417

Element Flows To:
Surface Interflow Groundwater

ANALYSIS RESULTS

Stream Protection Duration

Predeveloped Landuse Totals for POC #1

Total Pervious Area:1.353

Total Impervious Area:0.365

Mitigated Landuse Totals for POC #1

Total Pervious Area:1.353

Total Impervious Area:0.365

Flow Frequency Return Periods for Predeveloped. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.473503
5 year	0.620873
10 year	0.708764
25 year	0.810688
50 year	0.880953
100 year	0.947041

Flow Frequency Return Periods for Mitigated. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.473503
5 year	0.620873
10 year	0.708764
25 year	0.810688
50 year	0.880953
100 year	0.947041

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #1

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.576	0.576
1957	0.708	0.708
1958	0.466	0.466
1959	0.477	0.477
1960	0.546	0.546
1961	0.378	0.378
1962	0.817	0.817
1963	0.762	0.762
1964	0.476	0.476
1965	0.584	0.584
1966	0.551	0.551
1967	0.307	0.307
1968	0.502	0.502
1969	0.706	0.706
1970	0.385	0.385
1971	0.730	0.730
1972	0.721	0.721
1973	0.610	0.610
1974	0.589	0.589
1975	0.447	0.447
1976	0.587	0.587
1977	0.360	0.360
1978	0.746	0.746
1979	0.473	0.473
1980	0.374	0.374
1981	0.572	0.572
1982	0.555	0.555
1983	0.535	0.535
1984	0.423	0.423
1985	0.261	0.261
1986	0.576	0.576
1987	0.380	0.380
1988	0.536	0.536
1989	0.431	0.431
1990	0.703	0.703
1991	0.505	0.505
1992	0.288	0.288
1993	0.257	0.257
1994	0.422	0.422
1995	0.297	0.297
1996	0.368	0.368
1997	0.509	0.509
1998	0.269	0.269

1999	0.397	0.397
2000	0.372	0.372
2001	0.233	0.233
2002	0.373	0.373
2003	0.755	0.755
2004	0.596	0.596
2005	0.408	0.408
2006	0.533	0.533
2007	0.605	0.605
2008	0.251	0.251
2009	0.224	0.224

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	0.8166	0.8166
2	0.7624	0.7624
3	0.7546	0.7546
4	0.7463	0.7463
5	0.7301	0.7301
6	0.7213	0.7213
7	0.7079	0.7079
8	0.7060	0.7060
9	0.7031	0.7031
10	0.6102	0.6102
11	0.6047	0.6047
12	0.5956	0.5956
13	0.5888	0.5888
14	0.5874	0.5874
15	0.5844	0.5844
16	0.5759	0.5759
17	0.5758	0.5758
18	0.5716	0.5716
19	0.5554	0.5554
20	0.5511	0.5511
21	0.5460	0.5460
22	0.5357	0.5357
23	0.5347	0.5347
24	0.5333	0.5333
25	0.5092	0.5092
26	0.5045	0.5045
27	0.5018	0.5018
28	0.4771	0.4771
29	0.4764	0.4764
30	0.4727	0.4727
31	0.4664	0.4664
32	0.4467	0.4467
33	0.4307	0.4307
34	0.4226	0.4226
35	0.4221	0.4221
36	0.4084	0.4084
37	0.3969	0.3969
38	0.3848	0.3848
39	0.3800	0.3800
40	0.3779	0.3779
41	0.3743	0.3743

42	0.3728	0.3728
43	0.3717	0.3717
44	0.3676	0.3676
45	0.3597	0.3597
46	0.3066	0.3066
47	0.2973	0.2973
48	0.2882	0.2882
49	0.2686	0.2686
50	0.2611	0.2611
51	0.2572	0.2572
52	0.2512	0.2512
53	0.2327	0.2327
54	0.2244	0.2244

Stream Protection Duration

POC #1

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.2368	895	895	100	Pass
0.2433	799	799	100	Pass
0.2498	721	721	100	Pass
0.2563	640	640	100	Pass
0.2628	579	579	100	Pass
0.2693	511	511	100	Pass
0.2758	478	478	100	Pass
0.2823	435	435	100	Pass
0.2888	396	396	100	Pass
0.2953	378	378	100	Pass
0.3018	350	350	100	Pass
0.3083	306	306	100	Pass
0.3148	274	274	100	Pass
0.3213	247	247	100	Pass
0.3279	231	231	100	Pass
0.3344	220	220	100	Pass
0.3409	204	204	100	Pass
0.3474	193	193	100	Pass
0.3539	180	180	100	Pass
0.3604	168	168	100	Pass
0.3669	159	159	100	Pass
0.3734	140	140	100	Pass
0.3799	133	133	100	Pass
0.3864	121	121	100	Pass
0.3929	115	115	100	Pass
0.3994	102	102	100	Pass
0.4059	97	97	100	Pass
0.4124	93	93	100	Pass
0.4189	92	92	100	Pass
0.4255	87	87	100	Pass
0.4320	81	81	100	Pass
0.4385	75	75	100	Pass
0.4450	75	75	100	Pass
0.4515	69	69	100	Pass
0.4580	69	69	100	Pass

0.4645	67	67	100	Pass
0.4710	60	60	100	Pass
0.4775	55	55	100	Pass
0.4840	52	52	100	Pass
0.4905	49	49	100	Pass
0.4970	49	49	100	Pass
0.5035	48	48	100	Pass
0.5100	43	43	100	Pass
0.5166	43	43	100	Pass
0.5231	42	42	100	Pass
0.5296	40	40	100	Pass
0.5361	36	36	100	Pass
0.5426	36	36	100	Pass
0.5491	33	33	100	Pass
0.5556	32	32	100	Pass
0.5621	29	29	100	Pass
0.5686	27	27	100	Pass
0.5751	26	26	100	Pass
0.5816	22	22	100	Pass
0.5881	20	20	100	Pass
0.5946	18	18	100	Pass
0.6011	16	16	100	Pass
0.6077	13	13	100	Pass
0.6142	11	11	100	Pass
0.6207	11	11	100	Pass
0.6272	11	11	100	Pass
0.6337	11	11	100	Pass
0.6402	11	11	100	Pass
0.6467	11	11	100	Pass
0.6532	11	11	100	Pass
0.6597	11	11	100	Pass
0.6662	11	11	100	Pass
0.6727	11	11	100	Pass
0.6792	11	11	100	Pass
0.6857	11	11	100	Pass
0.6922	11	11	100	Pass
0.6988	11	11	100	Pass
0.7053	10	10	100	Pass
0.7118	8	8	100	Pass
0.7183	8	8	100	Pass
0.7248	6	6	100	Pass
0.7313	4	4	100	Pass
0.7378	4	4	100	Pass
0.7443	4	4	100	Pass
0.7508	3	3	100	Pass
0.7573	2	2	100	Pass
0.7638	1	1	100	Pass
0.7703	1	1	100	Pass
0.7768	1	1	100	Pass
0.7833	1	1	100	Pass
0.7899	1	1	100	Pass
0.7964	1	1	100	Pass
0.8029	1	1	100	Pass
0.8094	1	1	100	Pass
0.8159	1	1	100	Pass
0.8224	0	0	100	Pass
0.8289	0	0	0	Pass

0.8354	0	0	0	Pass
0.8419	0	0	0	Pass
0.8484	0	0	0	Pass
0.8549	0	0	0	Pass
0.8614	0	0	0	Pass
0.8679	0	0	0	Pass
0.8744	0	0	0	Pass
0.8810	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #1

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 1

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	50.3802	50.3802	100.0	Pass
Feb	39.2441	39.2441	100.0	Pass
Mar	34.2175	34.2175	100.0	Pass
Apr	17.7436	17.7436	100.0	Pass
May	7.3129	7.3129	100.0	Pass
Jun	4.1316	4.1316	100.0	Pass
Jul	1.5990	1.5990	100.0	Pass
Aug	1.9626	1.9626	100.0	Pass
Sep	5.4911	5.4911	100.0	Pass
Oct	18.3610	18.3610	100.0	Pass
Nov	41.9028	41.9028	100.0	Pass
Dec	47.2949	47.2949	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.6418	1.6418	100.0	Pass
2	1.3412	1.3412	100.0	Pass
3	1.5367	1.5367	100.0	Pass
4	1.7238	1.7238	100.0	Pass
5	1.4668	1.4668	100.0	Pass
6	1.8321	1.8321	100.0	Pass
7	1.6717	1.6717	100.0	Pass
8	1.5977	1.5977	100.0	Pass
9	1.6069	1.6069	100.0	Pass
10	1.6915	1.6915	100.0	Pass
11	1.9512	1.9512	100.0	Pass
12	1.7927	1.7927	100.0	Pass
13	1.9609	1.9609	100.0	Pass
14	2.0453	2.0453	100.0	Pass
15	1.9233	1.9233	100.0	Pass
16	1.7163	1.7163	100.0	Pass
17	1.6032	1.6032	100.0	Pass
18	1.3963	1.3963	100.0	Pass
19	1.3028	1.3028	100.0	Pass
20	0.9531	0.9531	100.0	Pass

21	1.2515	1.2515	100.0	Pass
22	1.8322	1.8322	100.0	Pass
23	2.1374	2.1374	100.0	Pass
24	1.7718	1.7718	100.0	Pass
25	1.4098	1.4098	100.0	Pass
26	1.2545	1.2545	100.0	Pass
27	1.3551	1.3551	100.0	Pass
28	1.7283	1.7283	100.0	Pass
29	1.5509	1.5509	100.0	Pass
30	1.5700	1.5700	100.0	Pass
31	1.1771	1.1771	100.0	Pass
Feb1	1.1534	1.1534	100.0	Pass
2	1.0228	1.0228	100.0	Pass
3	0.9563	0.9563	100.0	Pass
4	0.8922	0.8922	100.0	Pass
5	1.3648	1.3648	100.0	Pass
6	1.0413	1.0413	100.0	Pass
7	1.1020	1.1020	100.0	Pass
8	0.9118	0.9118	100.0	Pass
9	0.9557	0.9557	100.0	Pass
10	1.2686	1.2686	100.0	Pass
11	1.8056	1.8056	100.0	Pass
12	1.6000	1.6000	100.0	Pass
13	1.5468	1.5468	100.0	Pass
14	1.9883	1.9883	100.0	Pass
15	1.8213	1.8213	100.0	Pass
16	2.0287	2.0287	100.0	Pass
17	1.9255	1.9255	100.0	Pass
18	1.7405	1.7405	100.0	Pass
19	1.3955	1.3955	100.0	Pass
20	1.3462	1.3462	100.0	Pass
21	1.0613	1.0613	100.0	Pass
22	1.3955	1.3955	100.0	Pass
23	1.4518	1.4518	100.0	Pass
24	1.5811	1.5811	100.0	Pass
25	1.4517	1.4517	100.0	Pass
26	1.5199	1.5199	100.0	Pass
27	1.3213	1.3213	100.0	Pass
28	1.5136	1.5136	100.0	Pass
29	1.1871	1.1871	100.0	Pass
Mar1	1.1282	1.1282	100.0	Pass
2	0.9829	0.9829	100.0	Pass
3	1.2040	1.2040	100.0	Pass
4	1.3761	1.3761	100.0	Pass
5	1.1063	1.1063	100.0	Pass
6	1.3962	1.3962	100.0	Pass
7	1.2736	1.2736	100.0	Pass
8	1.3178	1.3178	100.0	Pass
9	1.3101	1.3101	100.0	Pass
10	1.2087	1.2087	100.0	Pass
11	1.2468	1.2468	100.0	Pass
12	1.0969	1.0969	100.0	Pass
13	1.2924	1.2924	100.0	Pass
14	1.0968	1.0968	100.0	Pass
15	0.8858	0.8858	100.0	Pass
16	0.8050	0.8050	100.0	Pass
17	1.0841	1.0841	100.0	Pass

18	0.7671	0.7671	100.0	Pass
19	0.9270	0.9270	100.0	Pass
20	0.8148	0.8148	100.0	Pass
21	1.2071	1.2071	100.0	Pass
22	1.4466	1.4466	100.0	Pass
23	1.3913	1.3913	100.0	Pass
24	0.9985	0.9985	100.0	Pass
25	1.1736	1.1736	100.0	Pass
26	1.0216	1.0216	100.0	Pass
27	0.8458	0.8458	100.0	Pass
28	0.9988	0.9988	100.0	Pass
29	0.8986	0.8986	100.0	Pass
30	0.7309	0.7309	100.0	Pass
31	0.5629	0.5629	100.0	Pass
Apr1	0.5557	0.5557	100.0	Pass
2	0.5980	0.5980	100.0	Pass
3	0.7319	0.7319	100.0	Pass
4	0.7906	0.7906	100.0	Pass
5	0.8991	0.8991	100.0	Pass
6	0.5501	0.5501	100.0	Pass
7	0.6797	0.6797	100.0	Pass
8	0.7738	0.7738	100.0	Pass
9	0.6435	0.6435	100.0	Pass
10	0.6929	0.6929	100.0	Pass
11	0.7701	0.7701	100.0	Pass
12	0.8144	0.8144	100.0	Pass
13	0.7678	0.7678	100.0	Pass
14	0.7383	0.7383	100.0	Pass
15	0.7571	0.7571	100.0	Pass
16	0.4971	0.4971	100.0	Pass
17	0.5221	0.5221	100.0	Pass
18	0.5983	0.5983	100.0	Pass
19	0.4304	0.4304	100.0	Pass
20	0.3308	0.3308	100.0	Pass
21	0.4828	0.4828	100.0	Pass
22	0.4308	0.4308	100.0	Pass
23	0.4114	0.4114	100.0	Pass
24	0.3302	0.3302	100.0	Pass
25	0.3484	0.3484	100.0	Pass
26	0.5879	0.5879	100.0	Pass
27	0.5651	0.5651	100.0	Pass
28	0.5622	0.5622	100.0	Pass
29	0.3220	0.3220	100.0	Pass
30	0.2881	0.2881	100.0	Pass
May1	0.4113	0.4113	100.0	Pass
2	0.3852	0.3852	100.0	Pass
3	0.3531	0.3531	100.0	Pass
4	0.3196	0.3196	100.0	Pass
5	0.2852	0.2852	100.0	Pass
6	0.2348	0.2348	100.0	Pass
7	0.2845	0.2845	100.0	Pass
8	0.2127	0.2127	100.0	Pass
9	0.2339	0.2339	100.0	Pass
10	0.1815	0.1815	100.0	Pass
11	0.1697	0.1697	100.0	Pass
12	0.2701	0.2701	100.0	Pass
13	0.2727	0.2727	100.0	Pass

14	0.2538	0.2538	100.0	Pass
15	0.2191	0.2191	100.0	Pass
16	0.2162	0.2162	100.0	Pass
17	0.1919	0.1919	100.0	Pass
18	0.2621	0.2621	100.0	Pass
19	0.1906	0.1906	100.0	Pass
20	0.1419	0.1419	100.0	Pass
21	0.1461	0.1461	100.0	Pass
22	0.1590	0.1590	100.0	Pass
23	0.1680	0.1680	100.0	Pass
24	0.1815	0.1815	100.0	Pass
25	0.1447	0.1447	100.0	Pass
26	0.2309	0.2309	100.0	Pass
27	0.2048	0.2048	100.0	Pass
28	0.1961	0.1961	100.0	Pass
29	0.2902	0.2902	100.0	Pass
30	0.2149	0.2149	100.0	Pass
31	0.2422	0.2422	100.0	Pass
Jun1	0.2037	0.2037	100.0	Pass
2	0.2151	0.2151	100.0	Pass
3	0.2205	0.2205	100.0	Pass
4	0.1821	0.1821	100.0	Pass
5	0.2437	0.2437	100.0	Pass
6	0.1342	0.1342	100.0	Pass
7	0.1854	0.1854	100.0	Pass
8	0.2337	0.2337	100.0	Pass
9	0.1830	0.1830	100.0	Pass
10	0.1505	0.1505	100.0	Pass
11	0.1128	0.1128	100.0	Pass
12	0.1185	0.1185	100.0	Pass
13	0.1997	0.1997	100.0	Pass
14	0.1108	0.1108	100.0	Pass
15	0.1744	0.1744	100.0	Pass
16	0.1058	0.1058	100.0	Pass
17	0.1043	0.1043	100.0	Pass
18	0.0900	0.0900	100.0	Pass
19	0.0739	0.0739	100.0	Pass
20	0.0734	0.0734	100.0	Pass
21	0.0960	0.0960	100.0	Pass
22	0.0607	0.0607	100.0	Pass
23	0.1958	0.1958	100.0	Pass
24	0.1079	0.1079	100.0	Pass
25	0.1052	0.1052	100.0	Pass
26	0.0609	0.0609	100.0	Pass
27	0.0466	0.0466	100.0	Pass
28	0.0453	0.0453	100.0	Pass
29	0.0562	0.0562	100.0	Pass
30	0.1293	0.1293	100.0	Pass
Jul1	0.0403	0.0403	100.0	Pass
2	0.0294	0.0294	100.0	Pass
3	0.0294	0.0294	100.0	Pass
4	0.0657	0.0657	100.0	Pass
5	0.0542	0.0542	100.0	Pass
6	0.0405	0.0405	100.0	Pass
7	0.0886	0.0886	100.0	Pass
8	0.0603	0.0603	100.0	Pass
9	0.1046	0.1046	100.0	Pass

10	0.0721	0.0721	100.0	Pass
11	0.1785	0.1785	100.0	Pass
12	0.1528	0.1528	100.0	Pass
13	0.0876	0.0876	100.0	Pass
14	0.0835	0.0835	100.0	Pass
15	0.0350	0.0350	100.0	Pass
16	0.0208	0.0208	100.0	Pass
17	0.0679	0.0679	100.0	Pass
18	0.0352	0.0352	100.0	Pass
19	0.0315	0.0315	100.0	Pass
20	0.0452	0.0452	100.0	Pass
21	0.0369	0.0369	100.0	Pass
22	0.0057	0.0057	100.0	Pass
23	0.0104	0.0104	100.0	Pass
24	0.0111	0.0111	100.0	Pass
25	0.0235	0.0235	100.0	Pass
26	0.0098	0.0098	100.0	Pass
27	0.0148	0.0148	100.0	Pass
28	0.0125	0.0125	100.0	Pass
29	0.0083	0.0083	100.0	Pass
30	0.0136	0.0136	100.0	Pass
31	0.0160	0.0160	100.0	Pass
Aug1	0.0653	0.0653	100.0	Pass
2	0.0254	0.0254	100.0	Pass
3	0.0109	0.0109	100.0	Pass
4	0.0099	0.0099	100.0	Pass
5	0.0753	0.0753	100.0	Pass
6	0.0529	0.0529	100.0	Pass
7	0.0211	0.0211	100.0	Pass
8	0.0196	0.0196	100.0	Pass
9	0.0022	0.0022	100.0	Pass
10	0.0099	0.0099	100.0	Pass
11	0.0470	0.0470	100.0	Pass
12	0.0409	0.0409	100.0	Pass
13	0.0522	0.0522	100.0	Pass
14	0.0350	0.0350	100.0	Pass
15	0.0336	0.0336	100.0	Pass
16	0.0268	0.0268	100.0	Pass
17	0.0473	0.0473	100.0	Pass
18	0.0922	0.0922	100.0	Pass
19	0.0355	0.0355	100.0	Pass
20	0.0733	0.0733	100.0	Pass
21	0.0690	0.0690	100.0	Pass
22	0.1313	0.1313	100.0	Pass
23	0.1284	0.1284	100.0	Pass
24	0.1222	0.1222	100.0	Pass
25	0.0557	0.0557	100.0	Pass
26	0.1312	0.1312	100.0	Pass
27	0.1405	0.1405	100.0	Pass
28	0.1510	0.1510	100.0	Pass
29	0.1021	0.1021	100.0	Pass
30	0.1388	0.1388	100.0	Pass
31	0.2221	0.2221	100.0	Pass
Sep1	0.1196	0.1196	100.0	Pass
2	0.1062	0.1062	100.0	Pass
3	0.1081	0.1081	100.0	Pass
4	0.1214	0.1214	100.0	Pass

5	0.1039	0.1039	100.0	Pass
6	0.0731	0.0731	100.0	Pass
7	0.1338	0.1338	100.0	Pass
8	0.1058	0.1058	100.0	Pass
9	0.2205	0.2205	100.0	Pass
10	0.0638	0.0638	100.0	Pass
11	0.0478	0.0478	100.0	Pass
12	0.1178	0.1178	100.0	Pass
13	0.2335	0.2335	100.0	Pass
14	0.1684	0.1684	100.0	Pass
15	0.2261	0.2261	100.0	Pass
16	0.3237	0.3237	100.0	Pass
17	0.3109	0.3109	100.0	Pass
18	0.2618	0.2618	100.0	Pass
19	0.3058	0.3058	100.0	Pass
20	0.2357	0.2357	100.0	Pass
21	0.3632	0.3632	100.0	Pass
22	0.3217	0.3217	100.0	Pass
23	0.2153	0.2153	100.0	Pass
24	0.1461	0.1461	100.0	Pass
25	0.1335	0.1335	100.0	Pass
26	0.1352	0.1352	100.0	Pass
27	0.1985	0.1985	100.0	Pass
28	0.1619	0.1619	100.0	Pass
29	0.2067	0.2067	100.0	Pass
30	0.1567	0.1567	100.0	Pass
Oct1	0.1205	0.1205	100.0	Pass
2	0.2538	0.2538	100.0	Pass
3	0.2519	0.2519	100.0	Pass
4	0.3373	0.3373	100.0	Pass
5	0.4000	0.4000	100.0	Pass
6	0.3919	0.3919	100.0	Pass
7	0.5261	0.5261	100.0	Pass
8	0.4767	0.4767	100.0	Pass
9	0.3708	0.3708	100.0	Pass
10	0.3249	0.3249	100.0	Pass
11	0.4814	0.4814	100.0	Pass
12	0.3783	0.3783	100.0	Pass
13	0.4335	0.4335	100.0	Pass
14	0.3276	0.3276	100.0	Pass
15	0.3215	0.3215	100.0	Pass
16	0.5191	0.5191	100.0	Pass
17	0.4702	0.4702	100.0	Pass
18	0.7182	0.7182	100.0	Pass
19	0.9988	0.9988	100.0	Pass
20	0.8689	0.8689	100.0	Pass
21	1.0366	1.0366	100.0	Pass
22	0.6841	0.6841	100.0	Pass
23	1.0350	1.0350	100.0	Pass
24	0.9792	0.9792	100.0	Pass
25	0.8746	0.8746	100.0	Pass
26	1.0285	1.0285	100.0	Pass
27	0.9629	0.9629	100.0	Pass
28	0.9004	0.9004	100.0	Pass
29	0.7834	0.7834	100.0	Pass
30	0.9500	0.9500	100.0	Pass
31	0.9721	0.9721	100.0	Pass

Nov1	1.1996	1.1996	100.0	Pass
2	1.3541	1.3541	100.0	Pass
3	1.2378	1.2378	100.0	Pass
4	1.0724	1.0724	100.0	Pass
5	1.2339	1.2339	100.0	Pass
6	1.1434	1.1434	100.0	Pass
7	1.0027	1.0027	100.0	Pass
8	1.1858	1.1858	100.0	Pass
9	1.4835	1.4835	100.0	Pass
10	1.3272	1.3272	100.0	Pass
11	1.4290	1.4290	100.0	Pass
12	1.3182	1.3182	100.0	Pass
13	1.1781	1.1781	100.0	Pass
14	1.1888	1.1888	100.0	Pass
15	1.2867	1.2867	100.0	Pass
16	1.4021	1.4021	100.0	Pass
17	1.3423	1.3423	100.0	Pass
18	1.8277	1.8277	100.0	Pass
19	1.8443	1.8443	100.0	Pass
20	1.3335	1.3335	100.0	Pass
21	1.7238	1.7238	100.0	Pass
22	2.0483	2.0483	100.0	Pass
23	1.8619	1.8619	100.0	Pass
24	1.9469	1.9469	100.0	Pass
25	1.5458	1.5458	100.0	Pass
26	1.1985	1.1985	100.0	Pass
27	1.1967	1.1967	100.0	Pass
28	1.2034	1.2034	100.0	Pass
29	1.8167	1.8167	100.0	Pass
30	1.7537	1.7537	100.0	Pass
Dec1	1.7882	1.7882	100.0	Pass
2	1.8500	1.8500	100.0	Pass
3	1.3094	1.3094	100.0	Pass
4	1.2079	1.2079	100.0	Pass
5	1.1476	1.1476	100.0	Pass
6	0.9216	0.9216	100.0	Pass
7	1.1803	1.1803	100.0	Pass
8	1.5512	1.5512	100.0	Pass
9	1.7145	1.7145	100.0	Pass
10	1.8680	1.8680	100.0	Pass
11	1.4540	1.4540	100.0	Pass
12	1.4341	1.4341	100.0	Pass
13	1.9433	1.9433	100.0	Pass
14	1.7081	1.7081	100.0	Pass
15	1.8142	1.8142	100.0	Pass
16	1.4927	1.4927	100.0	Pass
17	1.5309	1.5309	100.0	Pass
18	1.3157	1.3157	100.0	Pass
19	1.3968	1.3968	100.0	Pass
20	1.5239	1.5239	100.0	Pass
21	1.6417	1.6417	100.0	Pass
22	1.6840	1.6840	100.0	Pass
23	1.7540	1.7540	100.0	Pass
24	1.8230	1.8230	100.0	Pass
25	1.8447	1.8447	100.0	Pass
26	1.6419	1.6419	100.0	Pass
27	1.1526	1.1526	100.0	Pass

28	1.5108	1.5108	100.0	Pass
29	1.2587	1.2587	100.0	Pass
30	1.0800	1.0800	100.0	Pass
31	1.7676	1.7676	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #2

Total Pervious Area:2.963

Total Impervious Area:0.765

Mitigated Landuse Totals for POC #2

Total Pervious Area:2.963

Total Impervious Area:0.765

Flow Frequency Return Periods for Predeveloped. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.108916
5 year	1.450738
10 year	1.649063
25 year	1.873569
50 year	2.024833
100 year	2.164469

Flow Frequency Return Periods for Mitigated. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.108916
5 year	1.450738
10 year	1.649063
25 year	1.873569
50 year	2.024833
100 year	2.164469

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #2

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.367	1.367
1957	1.617	1.617
1958	1.068	1.068
1959	1.161	1.161
1960	1.308	1.308
1961	0.895	0.895
1962	1.900	1.900
1963	1.745	1.745
1964	1.131	1.131
1965	1.353	1.353
1966	1.319	1.319
1967	0.704	0.704
1968	1.191	1.191

1969	1.555	1.555
1970	0.884	0.884
1971	1.736	1.736
1972	1.681	1.681
1973	1.380	1.380
1974	1.366	1.366
1975	1.061	1.061
1976	1.369	1.369
1977	0.854	0.854
1978	1.726	1.726
1979	1.102	1.102
1980	0.876	0.876
1981	1.295	1.295
1982	1.305	1.305
1983	1.206	1.206
1984	1.016	1.016
1985	0.589	0.589
1986	1.335	1.335
1987	0.881	0.881
1988	1.258	1.258
1989	1.019	1.019
1990	1.650	1.650
1991	1.117	1.117
1992	0.668	0.668
1993	0.599	0.599
1994	0.997	0.997
1995	0.674	0.674
1996	0.831	0.831
1997	1.153	1.153
1998	0.620	0.620
1999	0.921	0.921
2000	0.864	0.864
2001	0.558	0.558
2002	0.877	0.877
2003	1.787	1.787
2004	1.440	1.440
2005	1.001	1.001
2006	1.243	1.243
2007	1.445	1.445
2008	0.574	0.574
2009	0.496	0.496

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	1.8995	1.8995
2	1.7870	1.7870
3	1.7450	1.7450
4	1.7359	1.7359
5	1.7255	1.7255
6	1.6814	1.6814
7	1.6504	1.6504
8	1.6167	1.6167
9	1.5546	1.5546
10	1.4451	1.4451
11	1.4402	1.4402

12	1.3797	1.3797
13	1.3693	1.3693
14	1.3666	1.3666
15	1.3665	1.3665
16	1.3530	1.3530
17	1.3349	1.3349
18	1.3192	1.3192
19	1.3079	1.3079
20	1.3053	1.3053
21	1.2945	1.2945
22	1.2585	1.2585
23	1.2433	1.2433
24	1.2064	1.2064
25	1.1907	1.1907
26	1.1608	1.1608
27	1.1527	1.1527
28	1.1313	1.1313
29	1.1166	1.1166
30	1.1017	1.1017
31	1.0677	1.0677
32	1.0612	1.0612
33	1.0193	1.0193
34	1.0162	1.0162
35	1.0015	1.0015
36	0.9972	0.9972
37	0.9209	0.9209
38	0.8947	0.8947
39	0.8838	0.8838
40	0.8806	0.8806
41	0.8766	0.8766
42	0.8756	0.8756
43	0.8640	0.8640
44	0.8538	0.8538
45	0.8312	0.8312
46	0.7042	0.7042
47	0.6743	0.6743
48	0.6675	0.6675
49	0.6205	0.6205
50	0.5992	0.5992
51	0.5890	0.5890
52	0.5741	0.5741
53	0.5585	0.5585
54	0.4960	0.4960

Stream Protection Duration

POC #2

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.5545	740	740	100	Pass
0.5693	677	677	100	Pass
0.5842	618	618	100	Pass
0.5990	557	557	100	Pass
0.6139	503	503	100	Pass

0.6287	467	467	100	Pass
0.6436	435	435	100	Pass
0.6584	410	410	100	Pass
0.6733	379	379	100	Pass
0.6881	346	346	100	Pass
0.7030	318	318	100	Pass
0.7178	298	298	100	Pass
0.7327	273	273	100	Pass
0.7475	250	250	100	Pass
0.7624	228	228	100	Pass
0.7772	211	211	100	Pass
0.7921	197	197	100	Pass
0.8069	186	186	100	Pass
0.8218	175	175	100	Pass
0.8367	166	166	100	Pass
0.8515	159	159	100	Pass
0.8664	149	149	100	Pass
0.8812	137	137	100	Pass
0.8961	124	124	100	Pass
0.9109	115	115	100	Pass
0.9258	106	106	100	Pass
0.9406	100	100	100	Pass
0.9555	96	96	100	Pass
0.9703	94	94	100	Pass
0.9852	92	92	100	Pass
1.0000	90	90	100	Pass
1.0149	84	84	100	Pass
1.0297	78	78	100	Pass
1.0446	72	72	100	Pass
1.0594	72	72	100	Pass
1.0743	67	67	100	Pass
1.0891	67	67	100	Pass
1.1040	62	62	100	Pass
1.1188	57	57	100	Pass
1.1337	52	52	100	Pass
1.1485	51	51	100	Pass
1.1634	48	48	100	Pass
1.1783	47	47	100	Pass
1.1931	44	44	100	Pass
1.2080	43	43	100	Pass
1.2228	42	42	100	Pass
1.2377	41	41	100	Pass
1.2525	39	39	100	Pass
1.2674	35	35	100	Pass
1.2822	35	35	100	Pass
1.2971	34	34	100	Pass
1.3119	31	31	100	Pass
1.3268	28	28	100	Pass
1.3416	26	26	100	Pass
1.3565	23	23	100	Pass
1.3713	20	20	100	Pass
1.3862	19	19	100	Pass
1.4010	18	18	100	Pass
1.4159	16	16	100	Pass
1.4307	13	13	100	Pass
1.4456	12	12	100	Pass
1.4604	11	11	100	Pass

1.4753	11	11	100	Pass
1.4902	11	11	100	Pass
1.5050	11	11	100	Pass
1.5199	11	11	100	Pass
1.5347	11	11	100	Pass
1.5496	11	11	100	Pass
1.5644	10	10	100	Pass
1.5793	10	10	100	Pass
1.5941	10	10	100	Pass
1.6090	10	10	100	Pass
1.6238	9	9	100	Pass
1.6387	9	9	100	Pass
1.6535	8	8	100	Pass
1.6684	8	8	100	Pass
1.6832	7	7	100	Pass
1.6981	7	7	100	Pass
1.7129	6	6	100	Pass
1.7278	4	4	100	Pass
1.7426	3	3	100	Pass
1.7575	2	2	100	Pass
1.7723	2	2	100	Pass
1.7872	2	2	100	Pass
1.8020	1	1	100	Pass
1.8169	1	1	100	Pass
1.8318	1	1	100	Pass
1.8466	1	1	100	Pass
1.8615	1	1	100	Pass
1.8763	1	1	100	Pass
1.8912	1	1	100	Pass
1.9060	0	0	100	Pass
1.9209	0	0	0	Pass
1.9357	0	0	0	Pass
1.9506	0	0	0	Pass
1.9654	0	0	0	Pass
1.9803	0	0	0	Pass
1.9951	0	0	0	Pass
2.0100	0	0	0	Pass
2.0248	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #2

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 2

Average Annual Volume (acft)

Month Prelevel Mitigated Percent Pass/Fail

Jan	111.6174	111.6174	100.0	Pass
Feb	86.9106	86.9106	100.0	Pass
Mar	75.8426	75.8426	100.0	Pass
Apr	39.4001	39.4001	100.0	Pass

May	16.4087	16.4087	100.0	Pass
Jun	9.3543	9.3543	100.0	Pass
Jul	3.6997	3.6997	100.0	Pass
Aug	4.6403	4.6403	100.0	Pass
Sep	13.0661	13.0661	100.0	Pass
Oct	42.4280	42.4280	100.0	Pass
Nov	94.2470	94.2470	100.0	Pass
Dec	105.3779	105.3779	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	3.6131	3.6131	100.0	Pass
2	2.9889	2.9889	100.0	Pass
3	3.4070	3.4070	100.0	Pass
4	3.7987	3.7987	100.0	Pass
5	3.2665	3.2665	100.0	Pass
6	4.0467	4.0467	100.0	Pass
7	3.7232	3.7232	100.0	Pass
8	3.5614	3.5614	100.0	Pass
9	3.5710	3.5710	100.0	Pass
10	3.7530	3.7530	100.0	Pass
11	4.3185	4.3185	100.0	Pass
12	3.9527	3.9527	100.0	Pass
13	4.3328	4.3328	100.0	Pass
14	4.5166	4.5166	100.0	Pass
15	4.2585	4.2585	100.0	Pass
16	3.8216	3.8216	100.0	Pass
17	3.5623	3.5623	100.0	Pass
18	3.1154	3.1154	100.0	Pass
19	2.9024	2.9024	100.0	Pass
20	2.1583	2.1583	100.0	Pass
21	2.7712	2.7712	100.0	Pass
22	4.0155	4.0155	100.0	Pass
23	4.6973	4.6973	100.0	Pass
24	3.9048	3.9048	100.0	Pass
25	3.1534	3.1534	100.0	Pass
26	2.8120	2.8120	100.0	Pass
27	3.0126	3.0126	100.0	Pass
28	3.8047	3.8047	100.0	Pass
29	3.4210	3.4210	100.0	Pass
30	3.4849	3.4849	100.0	Pass
31	2.6370	2.6370	100.0	Pass
Feb1	2.5796	2.5796	100.0	Pass
2	2.2821	2.2821	100.0	Pass
3	2.1378	2.1378	100.0	Pass
4	1.9922	1.9922	100.0	Pass
5	3.0021	3.0021	100.0	Pass
6	2.3050	2.3050	100.0	Pass
7	2.4381	2.4381	100.0	Pass
8	2.0430	2.0430	100.0	Pass
9	2.1249	2.1249	100.0	Pass
10	2.7849	2.7849	100.0	Pass
11	3.9407	3.9407	100.0	Pass
12	3.5353	3.5353	100.0	Pass
13	3.4235	3.4235	100.0	Pass
14	4.3654	4.3654	100.0	Pass
15	4.0278	4.0278	100.0	Pass
16	4.4721	4.4721	100.0	Pass

17	4.2676	4.2676	100.0	Pass
18	3.8650	3.8650	100.0	Pass
19	3.1346	3.1346	100.0	Pass
20	2.9973	2.9973	100.0	Pass
21	2.3841	2.3841	100.0	Pass
22	3.0862	3.0862	100.0	Pass
23	3.1909	3.1909	100.0	Pass
24	3.4733	3.4733	100.0	Pass
25	3.2179	3.2179	100.0	Pass
26	3.3434	3.3434	100.0	Pass
27	2.9286	2.9286	100.0	Pass
28	3.3727	3.3727	100.0	Pass
29	2.6445	2.6445	100.0	Pass
Mar1	2.5144	2.5144	100.0	Pass
2	2.1969	2.1969	100.0	Pass
3	2.6633	2.6633	100.0	Pass
4	3.0148	3.0148	100.0	Pass
5	2.4592	2.4592	100.0	Pass
6	3.0706	3.0706	100.0	Pass
7	2.8140	2.8140	100.0	Pass
8	2.9099	2.9099	100.0	Pass
9	2.8986	2.8986	100.0	Pass
10	2.6801	2.6801	100.0	Pass
11	2.7599	2.7599	100.0	Pass
12	2.4422	2.4422	100.0	Pass
13	2.8526	2.8526	100.0	Pass
14	2.4445	2.4445	100.0	Pass
15	1.9919	1.9919	100.0	Pass
16	1.8048	1.8048	100.0	Pass
17	2.3926	2.3926	100.0	Pass
18	1.7130	1.7130	100.0	Pass
19	2.0501	2.0501	100.0	Pass
20	1.8111	1.8111	100.0	Pass
21	2.6453	2.6453	100.0	Pass
22	3.1564	3.1564	100.0	Pass
23	3.0592	3.0592	100.0	Pass
24	2.2394	2.2394	100.0	Pass
25	2.5976	2.5976	100.0	Pass
26	2.2717	2.2717	100.0	Pass
27	1.8967	1.8967	100.0	Pass
28	2.2146	2.2146	100.0	Pass
29	1.9975	1.9975	100.0	Pass
30	1.6400	1.6400	100.0	Pass
31	1.2750	1.2750	100.0	Pass
Apr1	1.2471	1.2471	100.0	Pass
2	1.3315	1.3315	100.0	Pass
3	1.6139	1.6139	100.0	Pass
4	1.7383	1.7383	100.0	Pass
5	1.9810	1.9810	100.0	Pass
6	1.2405	1.2405	100.0	Pass
7	1.5019	1.5019	100.0	Pass
8	1.7029	1.7029	100.0	Pass
9	1.4290	1.4290	100.0	Pass
10	1.5373	1.5373	100.0	Pass
11	1.6993	1.6993	100.0	Pass
12	1.7915	1.7915	100.0	Pass
13	1.7031	1.7031	100.0	Pass

14	1.6344	1.6344	100.0	Pass
15	1.6832	1.6832	100.0	Pass
16	1.1279	1.1279	100.0	Pass
17	1.1675	1.1675	100.0	Pass
18	1.3232	1.3232	100.0	Pass
19	0.9687	0.9687	100.0	Pass
20	0.7502	0.7502	100.0	Pass
21	1.0617	1.0617	100.0	Pass
22	0.9568	0.9568	100.0	Pass
23	0.9171	0.9171	100.0	Pass
24	0.7436	0.7436	100.0	Pass
25	0.7742	0.7742	100.0	Pass
26	1.2985	1.2985	100.0	Pass
27	1.2347	1.2347	100.0	Pass
28	1.2379	1.2379	100.0	Pass
29	0.7327	0.7327	100.0	Pass
30	0.6541	0.6541	100.0	Pass
May1	0.9100	0.9100	100.0	Pass
2	0.8580	0.8580	100.0	Pass
3	0.7895	0.7895	100.0	Pass
4	0.7174	0.7174	100.0	Pass
5	0.6404	0.6404	100.0	Pass
6	0.5287	0.5287	100.0	Pass
7	0.6339	0.6339	100.0	Pass
8	0.4799	0.4799	100.0	Pass
9	0.5227	0.5227	100.0	Pass
10	0.4144	0.4144	100.0	Pass
11	0.3845	0.3845	100.0	Pass
12	0.5906	0.5906	100.0	Pass
13	0.6035	0.6035	100.0	Pass
14	0.5674	0.5674	100.0	Pass
15	0.4974	0.4974	100.0	Pass
16	0.4858	0.4858	100.0	Pass
17	0.4378	0.4378	100.0	Pass
18	0.5803	0.5803	100.0	Pass
19	0.4290	0.4290	100.0	Pass
20	0.3240	0.3240	100.0	Pass
21	0.3332	0.3332	100.0	Pass
22	0.3583	0.3583	100.0	Pass
23	0.3770	0.3770	100.0	Pass
24	0.4056	0.4056	100.0	Pass
25	0.3328	0.3328	100.0	Pass
26	0.5141	0.5141	100.0	Pass
27	0.4616	0.4616	100.0	Pass
28	0.4459	0.4459	100.0	Pass
29	0.6469	0.6469	100.0	Pass
30	0.4860	0.4860	100.0	Pass
31	0.5403	0.5403	100.0	Pass
Jun1	0.4594	0.4594	100.0	Pass
2	0.4821	0.4821	100.0	Pass
3	0.4915	0.4915	100.0	Pass
4	0.4105	0.4105	100.0	Pass
5	0.5483	0.5483	100.0	Pass
6	0.3163	0.3163	100.0	Pass
7	0.4150	0.4150	100.0	Pass
8	0.5193	0.5193	100.0	Pass
9	0.4126	0.4126	100.0	Pass

10	0.3412	0.3412	100.0	Pass
11	0.2617	0.2617	100.0	Pass
12	0.2688	0.2688	100.0	Pass
13	0.4446	0.4446	100.0	Pass
14	0.2576	0.2576	100.0	Pass
15	0.3903	0.3903	100.0	Pass
16	0.2446	0.2446	100.0	Pass
17	0.2416	0.2416	100.0	Pass
18	0.2117	0.2117	100.0	Pass
19	0.1714	0.1714	100.0	Pass
20	0.1679	0.1679	100.0	Pass
21	0.2145	0.2145	100.0	Pass
22	0.1396	0.1396	100.0	Pass
23	0.4311	0.4311	100.0	Pass
24	0.2507	0.2507	100.0	Pass
25	0.2405	0.2405	100.0	Pass
26	0.1428	0.1428	100.0	Pass
27	0.1081	0.1081	100.0	Pass
28	0.1043	0.1043	100.0	Pass
29	0.1272	0.1272	100.0	Pass
30	0.2955	0.2955	100.0	Pass
Jul1	0.1048	0.1048	100.0	Pass
2	0.0732	0.0732	100.0	Pass
3	0.0688	0.0688	100.0	Pass
4	0.1424	0.1424	100.0	Pass
5	0.1193	0.1193	100.0	Pass
6	0.0905	0.0905	100.0	Pass
7	0.1979	0.1979	100.0	Pass
8	0.1435	0.1435	100.0	Pass
9	0.2337	0.2337	100.0	Pass
10	0.1692	0.1692	100.0	Pass
11	0.4029	0.4029	100.0	Pass
12	0.3518	0.3518	100.0	Pass
13	0.2071	0.2071	100.0	Pass
14	0.1969	0.1969	100.0	Pass
15	0.0897	0.0897	100.0	Pass
16	0.0534	0.0534	100.0	Pass
17	0.1548	0.1548	100.0	Pass
18	0.0865	0.0865	100.0	Pass
19	0.0749	0.0749	100.0	Pass
20	0.1022	0.1022	100.0	Pass
21	0.0901	0.0901	100.0	Pass
22	0.0201	0.0201	100.0	Pass
23	0.0260	0.0260	100.0	Pass
24	0.0254	0.0254	100.0	Pass
25	0.0506	0.0506	100.0	Pass
26	0.0214	0.0214	100.0	Pass
27	0.0317	0.0317	100.0	Pass
28	0.0274	0.0274	100.0	Pass
29	0.0189	0.0189	100.0	Pass
30	0.0295	0.0295	100.0	Pass
31	0.0346	0.0346	100.0	Pass
Aug1	0.1413	0.1413	100.0	Pass
2	0.0623	0.0623	100.0	Pass
3	0.0300	0.0300	100.0	Pass
4	0.0250	0.0250	100.0	Pass
5	0.1675	0.1675	100.0	Pass

6	0.1247	0.1247	100.0	Pass
7	0.0544	0.0544	100.0	Pass
8	0.0466	0.0466	100.0	Pass
9	0.0075	0.0075	100.0	Pass
10	0.0228	0.0228	100.0	Pass
11	0.1016	0.1016	100.0	Pass
12	0.0904	0.0904	100.0	Pass
13	0.1163	0.1163	100.0	Pass
14	0.0839	0.0839	100.0	Pass
15	0.0832	0.0832	100.0	Pass
16	0.0640	0.0640	100.0	Pass
17	0.1038	0.1038	100.0	Pass
18	0.2004	0.2004	100.0	Pass
19	0.0872	0.0872	100.0	Pass
20	0.1625	0.1625	100.0	Pass
21	0.1613	0.1613	100.0	Pass
22	0.3013	0.3013	100.0	Pass
23	0.3096	0.3096	100.0	Pass
24	0.3174	0.3174	100.0	Pass
25	0.1579	0.1579	100.0	Pass
26	0.3062	0.3062	100.0	Pass
27	0.3364	0.3364	100.0	Pass
28	0.3678	0.3678	100.0	Pass
29	0.2506	0.2506	100.0	Pass
30	0.3223	0.3223	100.0	Pass
31	0.5271	0.5271	100.0	Pass
Sep1	0.3146	0.3146	100.0	Pass
2	0.2694	0.2694	100.0	Pass
3	0.2647	0.2647	100.0	Pass
4	0.2904	0.2904	100.0	Pass
5	0.2543	0.2543	100.0	Pass
6	0.1849	0.1849	100.0	Pass
7	0.3061	0.3061	100.0	Pass
8	0.2503	0.2503	100.0	Pass
9	0.4987	0.4987	100.0	Pass
10	0.1680	0.1680	100.0	Pass
11	0.1205	0.1205	100.0	Pass
12	0.2670	0.2670	100.0	Pass
13	0.5297	0.5297	100.0	Pass
14	0.4029	0.4029	100.0	Pass
15	0.5328	0.5328	100.0	Pass
16	0.7501	0.7501	100.0	Pass
17	0.7211	0.7211	100.0	Pass
18	0.6232	0.6232	100.0	Pass
19	0.7292	0.7292	100.0	Pass
20	0.5893	0.5893	100.0	Pass
21	0.8549	0.8549	100.0	Pass
22	0.7494	0.7494	100.0	Pass
23	0.5205	0.5205	100.0	Pass
24	0.3596	0.3596	100.0	Pass
25	0.3213	0.3213	100.0	Pass
26	0.3247	0.3247	100.0	Pass
27	0.4735	0.4735	100.0	Pass
28	0.3866	0.3866	100.0	Pass
29	0.4836	0.4836	100.0	Pass
30	0.3889	0.3889	100.0	Pass
Oct1	0.3022	0.3022	100.0	Pass

2	0.5787	0.5787	100.0	Pass
3	0.5805	0.5805	100.0	Pass
4	0.7767	0.7767	100.0	Pass
5	0.9060	0.9060	100.0	Pass
6	0.9065	0.9065	100.0	Pass
7	1.2144	1.2144	100.0	Pass
8	1.1148	1.1148	100.0	Pass
9	0.8855	0.8855	100.0	Pass
10	0.7675	0.7675	100.0	Pass
11	1.1074	1.1074	100.0	Pass
12	0.8946	0.8946	100.0	Pass
13	1.0202	1.0202	100.0	Pass
14	0.7975	0.7975	100.0	Pass
15	0.7809	0.7809	100.0	Pass
16	1.1899	1.1899	100.0	Pass
17	1.0935	1.0935	100.0	Pass
18	1.6553	1.6553	100.0	Pass
19	2.2680	2.2680	100.0	Pass
20	1.9912	1.9912	100.0	Pass
21	2.3716	2.3716	100.0	Pass
22	1.6410	1.6410	100.0	Pass
23	2.3589	2.3589	100.0	Pass
24	2.2373	2.2373	100.0	Pass
25	2.0211	2.0211	100.0	Pass
26	2.3429	2.3429	100.0	Pass
27	2.2078	2.2078	100.0	Pass
28	2.0564	2.0564	100.0	Pass
29	1.8047	1.8047	100.0	Pass
30	2.1706	2.1706	100.0	Pass
31	2.2099	2.2099	100.0	Pass
Nov1	2.6987	2.6987	100.0	Pass
2	3.0183	3.0183	100.0	Pass
3	2.8135	2.8135	100.0	Pass
4	2.4708	2.4708	100.0	Pass
5	2.8096	2.8096	100.0	Pass
6	2.6100	2.6100	100.0	Pass
7	2.3013	2.3013	100.0	Pass
8	2.6693	2.6693	100.0	Pass
9	3.3099	3.3099	100.0	Pass
10	2.9986	2.9986	100.0	Pass
11	3.2226	3.2226	100.0	Pass
12	2.9798	2.9798	100.0	Pass
13	2.6763	2.6763	100.0	Pass
14	2.6814	2.6814	100.0	Pass
15	2.9078	2.9078	100.0	Pass
16	3.1348	3.1348	100.0	Pass
17	3.0169	3.0169	100.0	Pass
18	4.0699	4.0699	100.0	Pass
19	4.1053	4.1053	100.0	Pass
20	3.0331	3.0331	100.0	Pass
21	3.8702	3.8702	100.0	Pass
22	4.5278	4.5278	100.0	Pass
23	4.1563	4.1563	100.0	Pass
24	4.3487	4.3487	100.0	Pass
25	3.4778	3.4778	100.0	Pass
26	2.7228	2.7228	100.0	Pass
27	2.7023	2.7023	100.0	Pass

28	2.6945	2.6945	100.0	Pass
29	4.0135	4.0135	100.0	Pass
30	3.8857	3.8857	100.0	Pass
Dec1	3.9720	3.9720	100.0	Pass
2	4.1073	4.1073	100.0	Pass
3	2.9532	2.9532	100.0	Pass
4	2.7350	2.7350	100.0	Pass
5	2.5880	2.5880	100.0	Pass
6	2.0896	2.0896	100.0	Pass
7	2.6342	2.6342	100.0	Pass
8	3.4230	3.4230	100.0	Pass
9	3.7792	3.7792	100.0	Pass
10	4.1277	4.1277	100.0	Pass
11	3.2443	3.2443	100.0	Pass
12	3.2047	3.2047	100.0	Pass
13	4.2800	4.2800	100.0	Pass
14	3.7976	3.7976	100.0	Pass
15	4.0385	4.0385	100.0	Pass
16	3.3554	3.3554	100.0	Pass
17	3.4233	3.4233	100.0	Pass
18	2.9638	2.9638	100.0	Pass
19	3.1177	3.1177	100.0	Pass
20	3.3837	3.3837	100.0	Pass
21	3.6617	3.6617	100.0	Pass
22	3.7110	3.7110	100.0	Pass
23	3.8788	3.8788	100.0	Pass
24	4.0440	4.0440	100.0	Pass
25	4.0874	4.0874	100.0	Pass
26	3.6712	3.6712	100.0	Pass
27	2.6121	2.6121	100.0	Pass
28	3.3561	3.3561	100.0	Pass
29	2.8129	2.8129	100.0	Pass
30	2.4448	2.4448	100.0	Pass
31	3.8792	3.8792	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #3

Total Pervious Area:0
Total Impervious Area:0.043

Mitigated Landuse Totals for POC #3

Total Pervious Area:0
Total Impervious Area:0.043

Flow Frequency Return Periods for Predeveloped. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.028233
5 year	0.033295
10 year	0.036089

25 year	0.039164
50 year	0.041196
100 year	0.043051

Flow Frequency Return Periods for Mitigated. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.028233
5 year	0.033295
10 year	0.036089
25 year	0.039164
50 year	0.041196
100 year	0.043051

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #3

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.029	0.029
1957	0.037	0.037
1958	0.028	0.028
1959	0.028	0.028
1960	0.029	0.029
1961	0.025	0.025
1962	0.038	0.038
1963	0.035	0.035
1964	0.031	0.031
1965	0.030	0.030
1966	0.030	0.030
1967	0.020	0.020
1968	0.029	0.029
1969	0.027	0.027
1970	0.027	0.027
1971	0.039	0.039
1972	0.033	0.033
1973	0.031	0.031
1974	0.030	0.030
1975	0.027	0.027
1976	0.032	0.032
1977	0.024	0.024
1978	0.041	0.041
1979	0.026	0.026
1980	0.024	0.024
1981	0.030	0.030
1982	0.035	0.035
1983	0.028	0.028
1984	0.026	0.026
1985	0.020	0.020
1986	0.031	0.031
1987	0.022	0.022
1988	0.033	0.033
1989	0.028	0.028
1990	0.035	0.035
1991	0.025	0.025
1992	0.019	0.019
1993	0.021	0.021
1994	0.027	0.027
1995	0.027	0.027

1996	0.033	0.033
1997	0.031	0.031
1998	0.020	0.020
1999	0.024	0.024
2000	0.023	0.023
2001	0.022	0.022
2002	0.036	0.036
2003	0.037	0.037
2004	0.035	0.035
2005	0.028	0.028
2006	0.028	0.028
2007	0.033	0.033
2008	0.018	0.018
2009	0.017	0.017

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	0.0409	0.0409
2	0.0392	0.0392
3	0.0381	0.0381
4	0.0374	0.0374
5	0.0365	0.0365
6	0.0355	0.0355
7	0.0352	0.0352
8	0.0352	0.0352
9	0.0351	0.0351
10	0.0350	0.0350
11	0.0331	0.0331
12	0.0329	0.0329
13	0.0327	0.0327
14	0.0326	0.0326
15	0.0324	0.0324
16	0.0312	0.0312
17	0.0310	0.0310
18	0.0309	0.0309
19	0.0308	0.0308
20	0.0305	0.0305
21	0.0304	0.0304
22	0.0296	0.0296
23	0.0296	0.0296
24	0.0291	0.0291
25	0.0291	0.0291
26	0.0287	0.0287
27	0.0285	0.0285
28	0.0283	0.0283
29	0.0282	0.0282
30	0.0280	0.0280
31	0.0276	0.0276
32	0.0275	0.0275
33	0.0270	0.0270
34	0.0269	0.0269
35	0.0267	0.0267
36	0.0266	0.0266
37	0.0265	0.0265
38	0.0257	0.0257

39	0.0257	0.0257
40	0.0247	0.0247
41	0.0247	0.0247
42	0.0243	0.0243
43	0.0240	0.0240
44	0.0239	0.0239
45	0.0230	0.0230
46	0.0220	0.0220
47	0.0217	0.0217
48	0.0210	0.0210
49	0.0203	0.0203
50	0.0201	0.0201
51	0.0196	0.0196
52	0.0191	0.0191
53	0.0181	0.0181
54	0.0173	0.0173

Stream Protection Duration

POC #3

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0141	1246	1246	100	Pass
0.0144	1161	1161	100	Pass
0.0147	1075	1075	100	Pass
0.0149	1007	1007	100	Pass
0.0152	939	939	100	Pass
0.0155	882	882	100	Pass
0.0158	814	814	100	Pass
0.0160	751	751	100	Pass
0.0163	694	694	100	Pass
0.0166	653	653	100	Pass
0.0169	592	592	100	Pass
0.0171	552	552	100	Pass
0.0174	512	512	100	Pass
0.0177	476	476	100	Pass
0.0179	437	437	100	Pass
0.0182	407	407	100	Pass
0.0185	375	375	100	Pass
0.0188	354	354	100	Pass
0.0190	329	329	100	Pass
0.0193	309	309	100	Pass
0.0196	294	294	100	Pass
0.0199	276	276	100	Pass
0.0201	259	259	100	Pass
0.0204	247	247	100	Pass
0.0207	231	231	100	Pass
0.0210	221	221	100	Pass
0.0212	209	209	100	Pass
0.0215	196	196	100	Pass
0.0218	187	187	100	Pass
0.0220	179	179	100	Pass
0.0223	168	168	100	Pass
0.0226	160	160	100	Pass

0.0229	153	153	100	Pass
0.0231	142	142	100	Pass
0.0234	134	134	100	Pass
0.0237	127	127	100	Pass
0.0240	116	116	100	Pass
0.0242	109	109	100	Pass
0.0245	105	105	100	Pass
0.0248	98	98	100	Pass
0.0251	96	96	100	Pass
0.0253	90	90	100	Pass
0.0256	87	87	100	Pass
0.0259	80	80	100	Pass
0.0262	75	75	100	Pass
0.0264	73	73	100	Pass
0.0267	68	68	100	Pass
0.0270	62	62	100	Pass
0.0272	60	60	100	Pass
0.0275	57	57	100	Pass
0.0278	53	53	100	Pass
0.0281	51	51	100	Pass
0.0283	48	48	100	Pass
0.0286	45	45	100	Pass
0.0289	42	42	100	Pass
0.0292	39	39	100	Pass
0.0294	37	37	100	Pass
0.0297	34	34	100	Pass
0.0300	34	34	100	Pass
0.0303	33	33	100	Pass
0.0305	30	30	100	Pass
0.0308	28	28	100	Pass
0.0311	26	26	100	Pass
0.0313	25	25	100	Pass
0.0316	24	24	100	Pass
0.0319	24	24	100	Pass
0.0322	24	24	100	Pass
0.0324	21	21	100	Pass
0.0327	20	20	100	Pass
0.0330	17	17	100	Pass
0.0333	14	14	100	Pass
0.0335	14	14	100	Pass
0.0338	13	13	100	Pass
0.0341	13	13	100	Pass
0.0344	12	12	100	Pass
0.0346	12	12	100	Pass
0.0349	12	12	100	Pass
0.0352	9	9	100	Pass
0.0355	8	8	100	Pass
0.0357	6	6	100	Pass
0.0360	6	6	100	Pass
0.0363	6	6	100	Pass
0.0365	5	5	100	Pass
0.0368	5	5	100	Pass
0.0371	4	4	100	Pass
0.0374	3	3	100	Pass
0.0376	3	3	100	Pass
0.0379	3	3	100	Pass
0.0382	2	2	100	Pass

0.0385	2	2	100	Pass
0.0387	2	2	100	Pass
0.0390	2	2	100	Pass
0.0393	1	1	100	Pass
0.0396	1	1	100	Pass
0.0398	1	1	100	Pass
0.0401	1	1	100	Pass
0.0404	1	1	100	Pass
0.0406	1	1	100	Pass
0.0409	0	0	100	Pass
0.0412	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #3

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 3

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	1.7150	1.7150	100.0	Pass
Feb	1.3076	1.3076	100.0	Pass
Mar	1.1609	1.1609	100.0	Pass
Apr	0.6550	0.6550	100.0	Pass
May	0.3643	0.3643	100.0	Pass
Jun	0.2458	0.2458	100.0	Pass
Jul	0.1240	0.1240	100.0	Pass
Aug	0.1882	0.1882	100.0	Pass
Sep	0.4183	0.4183	100.0	Pass
Oct	0.9988	0.9988	100.0	Pass
Nov	1.6489	1.6489	100.0	Pass
Dec	1.6544	1.6544	100.0	Pass

Day Predevel Mitigated Percent Pass/Fail

Jan1	0.0553	0.0553	100.0	Pass
2	0.0423	0.0423	100.0	Pass
3	0.0558	0.0558	100.0	Pass
4	0.0667	0.0667	100.0	Pass
5	0.0460	0.0460	100.0	Pass
6	0.0732	0.0732	100.0	Pass
7	0.0538	0.0538	100.0	Pass
8	0.0548	0.0548	100.0	Pass
9	0.0596	0.0596	100.0	Pass
10	0.0568	0.0568	100.0	Pass
11	0.0708	0.0708	100.0	Pass
12	0.0536	0.0536	100.0	Pass
13	0.0699	0.0699	100.0	Pass
14	0.0690	0.0690	100.0	Pass
15	0.0622	0.0622	100.0	Pass
16	0.0494	0.0494	100.0	Pass
17	0.0479	0.0479	100.0	Pass

18	0.0422	0.0422	100.0	Pass
19	0.0430	0.0430	100.0	Pass
20	0.0267	0.0267	100.0	Pass
21	0.0581	0.0581	100.0	Pass
22	0.0684	0.0684	100.0	Pass
23	0.0756	0.0756	100.0	Pass
24	0.0487	0.0487	100.0	Pass
25	0.0411	0.0411	100.0	Pass
26	0.0372	0.0372	100.0	Pass
27	0.0497	0.0497	100.0	Pass
28	0.0639	0.0639	100.0	Pass
29	0.0468	0.0468	100.0	Pass
30	0.0572	0.0572	100.0	Pass
31	0.0318	0.0318	100.0	Pass
Feb1	0.0380	0.0380	100.0	Pass
2	0.0351	0.0351	100.0	Pass
3	0.0314	0.0314	100.0	Pass
4	0.0290	0.0290	100.0	Pass
5	0.0570	0.0570	100.0	Pass
6	0.0256	0.0256	100.0	Pass
7	0.0408	0.0408	100.0	Pass
8	0.0298	0.0298	100.0	Pass
9	0.0376	0.0376	100.0	Pass
10	0.0508	0.0508	100.0	Pass
11	0.0663	0.0663	100.0	Pass
12	0.0494	0.0494	100.0	Pass
13	0.0545	0.0545	100.0	Pass
14	0.0786	0.0786	100.0	Pass
15	0.0535	0.0535	100.0	Pass
16	0.0735	0.0735	100.0	Pass
17	0.0630	0.0630	100.0	Pass
18	0.0476	0.0476	100.0	Pass
19	0.0418	0.0418	100.0	Pass
20	0.0408	0.0408	100.0	Pass
21	0.0333	0.0333	100.0	Pass
22	0.0513	0.0513	100.0	Pass
23	0.0481	0.0481	100.0	Pass
24	0.0532	0.0532	100.0	Pass
25	0.0466	0.0466	100.0	Pass
26	0.0456	0.0456	100.0	Pass
27	0.0396	0.0396	100.0	Pass
28	0.0511	0.0511	100.0	Pass
29	0.0386	0.0386	100.0	Pass
Mar1	0.0384	0.0384	100.0	Pass
2	0.0307	0.0307	100.0	Pass
3	0.0457	0.0457	100.0	Pass
4	0.0473	0.0473	100.0	Pass
5	0.0363	0.0363	100.0	Pass
6	0.0466	0.0466	100.0	Pass
7	0.0463	0.0463	100.0	Pass
8	0.0442	0.0442	100.0	Pass
9	0.0443	0.0443	100.0	Pass
10	0.0379	0.0379	100.0	Pass
11	0.0418	0.0418	100.0	Pass
12	0.0368	0.0368	100.0	Pass
13	0.0455	0.0455	100.0	Pass
14	0.0349	0.0349	100.0	Pass

15	0.0281	0.0281	100.0	Pass
16	0.0277	0.0277	100.0	Pass
17	0.0385	0.0385	100.0	Pass
18	0.0221	0.0221	100.0	Pass
19	0.0358	0.0358	100.0	Pass
20	0.0280	0.0280	100.0	Pass
21	0.0496	0.0496	100.0	Pass
22	0.0551	0.0551	100.0	Pass
23	0.0433	0.0433	100.0	Pass
24	0.0259	0.0259	100.0	Pass
25	0.0443	0.0443	100.0	Pass
26	0.0304	0.0304	100.0	Pass
27	0.0301	0.0301	100.0	Pass
28	0.0338	0.0338	100.0	Pass
29	0.0310	0.0310	100.0	Pass
30	0.0222	0.0222	100.0	Pass
31	0.0179	0.0179	100.0	Pass
Apr1	0.0199	0.0199	100.0	Pass
2	0.0230	0.0230	100.0	Pass
3	0.0327	0.0327	100.0	Pass
4	0.0286	0.0286	100.0	Pass
5	0.0302	0.0302	100.0	Pass
6	0.0150	0.0150	100.0	Pass
7	0.0280	0.0280	100.0	Pass
8	0.0275	0.0275	100.0	Pass
9	0.0245	0.0245	100.0	Pass
10	0.0238	0.0238	100.0	Pass
11	0.0346	0.0346	100.0	Pass
12	0.0283	0.0283	100.0	Pass
13	0.0300	0.0300	100.0	Pass
14	0.0248	0.0248	100.0	Pass
15	0.0267	0.0267	100.0	Pass
16	0.0135	0.0135	100.0	Pass
17	0.0208	0.0208	100.0	Pass
18	0.0243	0.0243	100.0	Pass
19	0.0117	0.0117	100.0	Pass
20	0.0121	0.0121	100.0	Pass
21	0.0221	0.0221	100.0	Pass
22	0.0179	0.0179	100.0	Pass
23	0.0152	0.0152	100.0	Pass
24	0.0121	0.0121	100.0	Pass
25	0.0154	0.0154	100.0	Pass
26	0.0260	0.0260	100.0	Pass
27	0.0193	0.0193	100.0	Pass
28	0.0202	0.0202	100.0	Pass
29	0.0087	0.0087	100.0	Pass
30	0.0133	0.0133	100.0	Pass
May1	0.0217	0.0217	100.0	Pass
2	0.0147	0.0147	100.0	Pass
3	0.0163	0.0163	100.0	Pass
4	0.0123	0.0123	100.0	Pass
5	0.0121	0.0121	100.0	Pass
6	0.0102	0.0102	100.0	Pass
7	0.0141	0.0141	100.0	Pass
8	0.0080	0.0080	100.0	Pass
9	0.0122	0.0122	100.0	Pass
10	0.0096	0.0096	100.0	Pass

11	0.0091	0.0091	100.0	Pass
12	0.0132	0.0132	100.0	Pass
13	0.0142	0.0142	100.0	Pass
14	0.0139	0.0139	100.0	Pass
15	0.0085	0.0085	100.0	Pass
16	0.0120	0.0120	100.0	Pass
17	0.0095	0.0095	100.0	Pass
18	0.0165	0.0165	100.0	Pass
19	0.0079	0.0079	100.0	Pass
20	0.0081	0.0081	100.0	Pass
21	0.0083	0.0083	100.0	Pass
22	0.0105	0.0105	100.0	Pass
23	0.0089	0.0089	100.0	Pass
24	0.0094	0.0094	100.0	Pass
25	0.0077	0.0077	100.0	Pass
26	0.0141	0.0141	100.0	Pass
27	0.0106	0.0106	100.0	Pass
28	0.0117	0.0117	100.0	Pass
29	0.0160	0.0160	100.0	Pass
30	0.0099	0.0099	100.0	Pass
31	0.0109	0.0109	100.0	Pass
Jun1	0.0078	0.0078	100.0	Pass
2	0.0144	0.0144	100.0	Pass
3	0.0135	0.0135	100.0	Pass
4	0.0093	0.0093	100.0	Pass
5	0.0163	0.0163	100.0	Pass
6	0.0052	0.0052	100.0	Pass
7	0.0090	0.0090	100.0	Pass
8	0.0131	0.0131	100.0	Pass
9	0.0096	0.0096	100.0	Pass
10	0.0093	0.0093	100.0	Pass
11	0.0066	0.0066	100.0	Pass
12	0.0084	0.0084	100.0	Pass
13	0.0136	0.0136	100.0	Pass
14	0.0049	0.0049	100.0	Pass
15	0.0109	0.0109	100.0	Pass
16	0.0042	0.0042	100.0	Pass
17	0.0066	0.0066	100.0	Pass
18	0.0041	0.0041	100.0	Pass
19	0.0055	0.0055	100.0	Pass
20	0.0061	0.0061	100.0	Pass
21	0.0060	0.0060	100.0	Pass
22	0.0030	0.0030	100.0	Pass
23	0.0178	0.0178	100.0	Pass
24	0.0038	0.0038	100.0	Pass
25	0.0075	0.0075	100.0	Pass
26	0.0044	0.0044	100.0	Pass
27	0.0041	0.0041	100.0	Pass
28	0.0043	0.0043	100.0	Pass
29	0.0058	0.0058	100.0	Pass
30	0.0124	0.0124	100.0	Pass
Jul1	0.0026	0.0026	100.0	Pass
2	0.0024	0.0024	100.0	Pass
3	0.0028	0.0028	100.0	Pass
4	0.0073	0.0073	100.0	Pass
5	0.0054	0.0054	100.0	Pass
6	0.0040	0.0040	100.0	Pass

7	0.0077	0.0077	100.0	Pass
8	0.0040	0.0040	100.0	Pass
9	0.0091	0.0091	100.0	Pass
10	0.0057	0.0057	100.0	Pass
11	0.0116	0.0116	100.0	Pass
12	0.0049	0.0049	100.0	Pass
13	0.0039	0.0039	100.0	Pass
14	0.0068	0.0068	100.0	Pass
15	0.0025	0.0025	100.0	Pass
16	0.0016	0.0016	100.0	Pass
17	0.0060	0.0060	100.0	Pass
18	0.0017	0.0017	100.0	Pass
19	0.0024	0.0024	100.0	Pass
20	0.0044	0.0044	100.0	Pass
21	0.0033	0.0033	100.0	Pass
22	0.0001	0.0001	100.0	Pass
23	0.0009	0.0009	100.0	Pass
24	0.0012	0.0012	100.0	Pass
25	0.0027	0.0027	100.0	Pass
26	0.0011	0.0011	100.0	Pass
27	0.0017	0.0017	100.0	Pass
28	0.0014	0.0014	100.0	Pass
29	0.0009	0.0009	100.0	Pass
30	0.0015	0.0015	100.0	Pass
31	0.0018	0.0018	100.0	Pass
Aug1	0.0073	0.0073	100.0	Pass
2	0.0023	0.0023	100.0	Pass
3	0.0008	0.0008	100.0	Pass
4	0.0009	0.0009	100.0	Pass
5	0.0082	0.0082	100.0	Pass
6	0.0053	0.0053	100.0	Pass
7	0.0017	0.0017	100.0	Pass
8	0.0019	0.0019	100.0	Pass
9	0.0001	0.0001	100.0	Pass
10	0.0010	0.0010	100.0	Pass
11	0.0053	0.0053	100.0	Pass
12	0.0045	0.0045	100.0	Pass
13	0.0056	0.0056	100.0	Pass
14	0.0033	0.0033	100.0	Pass
15	0.0028	0.0028	100.0	Pass
16	0.0025	0.0025	100.0	Pass
17	0.0052	0.0052	100.0	Pass
18	0.0102	0.0102	100.0	Pass
19	0.0025	0.0025	100.0	Pass
20	0.0078	0.0078	100.0	Pass
21	0.0069	0.0069	100.0	Pass
22	0.0137	0.0137	100.0	Pass
23	0.0125	0.0125	100.0	Pass
24	0.0101	0.0101	100.0	Pass
25	0.0036	0.0036	100.0	Pass
26	0.0131	0.0131	100.0	Pass
27	0.0130	0.0130	100.0	Pass
28	0.0128	0.0128	100.0	Pass
29	0.0079	0.0079	100.0	Pass
30	0.0136	0.0136	100.0	Pass
31	0.0213	0.0213	100.0	Pass
Sep1	0.0070	0.0070	100.0	Pass

2	0.0078	0.0078	100.0	Pass
3	0.0087	0.0087	100.0	Pass
4	0.0113	0.0113	100.0	Pass
5	0.0096	0.0096	100.0	Pass
6	0.0064	0.0064	100.0	Pass
7	0.0134	0.0134	100.0	Pass
8	0.0081	0.0081	100.0	Pass
9	0.0218	0.0218	100.0	Pass
10	0.0045	0.0045	100.0	Pass
11	0.0040	0.0040	100.0	Pass
12	0.0115	0.0115	100.0	Pass
13	0.0215	0.0215	100.0	Pass
14	0.0130	0.0130	100.0	Pass
15	0.0202	0.0202	100.0	Pass
16	0.0207	0.0207	100.0	Pass
17	0.0230	0.0230	100.0	Pass
18	0.0206	0.0206	100.0	Pass
19	0.0216	0.0216	100.0	Pass
20	0.0150	0.0150	100.0	Pass
21	0.0214	0.0214	100.0	Pass
22	0.0169	0.0169	100.0	Pass
23	0.0134	0.0134	100.0	Pass
24	0.0096	0.0096	100.0	Pass
25	0.0107	0.0107	100.0	Pass
26	0.0108	0.0108	100.0	Pass
27	0.0146	0.0146	100.0	Pass
28	0.0128	0.0128	100.0	Pass
29	0.0173	0.0173	100.0	Pass
30	0.0119	0.0119	100.0	Pass
Oct1	0.0081	0.0081	100.0	Pass
2	0.0228	0.0228	100.0	Pass
3	0.0199	0.0199	100.0	Pass
4	0.0240	0.0240	100.0	Pass
5	0.0253	0.0253	100.0	Pass
6	0.0281	0.0281	100.0	Pass
7	0.0358	0.0358	100.0	Pass
8	0.0282	0.0282	100.0	Pass
9	0.0215	0.0215	100.0	Pass
10	0.0174	0.0174	100.0	Pass
11	0.0355	0.0355	100.0	Pass
12	0.0227	0.0227	100.0	Pass
13	0.0330	0.0330	100.0	Pass
14	0.0172	0.0172	100.0	Pass
15	0.0213	0.0213	100.0	Pass
16	0.0291	0.0291	100.0	Pass
17	0.0263	0.0263	100.0	Pass
18	0.0429	0.0429	100.0	Pass
19	0.0523	0.0523	100.0	Pass
20	0.0446	0.0446	100.0	Pass
21	0.0542	0.0542	100.0	Pass
22	0.0294	0.0294	100.0	Pass
23	0.0526	0.0526	100.0	Pass
24	0.0452	0.0452	100.0	Pass
25	0.0400	0.0400	100.0	Pass
26	0.0495	0.0495	100.0	Pass
27	0.0408	0.0408	100.0	Pass
28	0.0381	0.0381	100.0	Pass

29	0.0316	0.0316	100.0	Pass
30	0.0496	0.0496	100.0	Pass
31	0.0402	0.0402	100.0	Pass
Nov1	0.0516	0.0516	100.0	Pass
2	0.0640	0.0640	100.0	Pass
3	0.0467	0.0467	100.0	Pass
4	0.0487	0.0487	100.0	Pass
5	0.0540	0.0540	100.0	Pass
6	0.0437	0.0437	100.0	Pass
7	0.0397	0.0397	100.0	Pass
8	0.0537	0.0537	100.0	Pass
9	0.0632	0.0632	100.0	Pass
10	0.0527	0.0527	100.0	Pass
11	0.0597	0.0597	100.0	Pass
12	0.0551	0.0551	100.0	Pass
13	0.0389	0.0389	100.0	Pass
14	0.0481	0.0481	100.0	Pass
15	0.0545	0.0545	100.0	Pass
16	0.0570	0.0570	100.0	Pass
17	0.0511	0.0511	100.0	Pass
18	0.0776	0.0776	100.0	Pass
19	0.0672	0.0672	100.0	Pass
20	0.0419	0.0419	100.0	Pass
21	0.0713	0.0713	100.0	Pass
22	0.0857	0.0857	100.0	Pass
23	0.0614	0.0614	100.0	Pass
24	0.0721	0.0721	100.0	Pass
25	0.0443	0.0443	100.0	Pass
26	0.0360	0.0360	100.0	Pass
27	0.0471	0.0471	100.0	Pass
28	0.0448	0.0448	100.0	Pass
29	0.0775	0.0775	100.0	Pass
30	0.0586	0.0586	100.0	Pass
Dec1	0.0659	0.0659	100.0	Pass
2	0.0627	0.0627	100.0	Pass
3	0.0379	0.0379	100.0	Pass
4	0.0445	0.0445	100.0	Pass
5	0.0372	0.0372	100.0	Pass
6	0.0328	0.0328	100.0	Pass
7	0.0500	0.0500	100.0	Pass
8	0.0629	0.0629	100.0	Pass
9	0.0608	0.0608	100.0	Pass
10	0.0652	0.0652	100.0	Pass
11	0.0459	0.0459	100.0	Pass
12	0.0511	0.0511	100.0	Pass
13	0.0795	0.0795	100.0	Pass
14	0.0508	0.0508	100.0	Pass
15	0.0707	0.0707	100.0	Pass
16	0.0440	0.0440	100.0	Pass
17	0.0557	0.0557	100.0	Pass
18	0.0447	0.0447	100.0	Pass
19	0.0548	0.0548	100.0	Pass
20	0.0524	0.0524	100.0	Pass
21	0.0577	0.0577	100.0	Pass
22	0.0571	0.0571	100.0	Pass
23	0.0625	0.0625	100.0	Pass
24	0.0702	0.0702	100.0	Pass

25	0.0582	0.0582	100.0	Pass
26	0.0528	0.0528	100.0	Pass
27	0.0341	0.0341	100.0	Pass
28	0.0590	0.0590	100.0	Pass
29	0.0358	0.0358	100.0	Pass
30	0.0392	0.0392	100.0	Pass
31	0.0696	0.0696	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #4
Total Pervious Area:2.428
Total Impervious Area:2.647

Mitigated Landuse Totals for POC #4
Total Pervious Area:2.428
Total Impervious Area:2.647

Flow Frequency Return Periods for Predeveloped. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.538327
5 year	3.086524
10 year	3.395963
25 year	3.741724
50 year	3.973031
100 year	4.18594

Flow Frequency Return Periods for Mitigated. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.538327
5 year	3.086524
10 year	3.395963
25 year	3.741724
50 year	3.973031
100 year	4.18594

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #4

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	2.627	2.627
1957	3.750	3.750
1958	2.948	2.948
1959	2.343	2.343
1960	2.479	2.479
1961	2.050	2.050
1962	3.575	3.575
1963	3.505	3.505
1964	2.735	2.735
1965	2.744	2.744

1966	2.626	2.626
1967	1.623	1.623
1968	2.521	2.521
1969	3.361	3.361
1970	2.431	2.431
1971	3.430	3.430
1972	3.038	3.038
1973	3.179	3.179
1974	3.113	3.113
1975	2.204	2.204
1976	2.881	2.881
1977	1.920	1.920
1978	4.041	4.041
1979	2.381	2.381
1980	2.063	2.063
1981	3.091	3.091
1982	3.252	3.252
1983	2.777	2.777
1984	2.205	2.205
1985	1.702	1.702
1986	2.919	2.919
1987	1.979	1.979
1988	3.281	3.281
1989	2.478	2.478
1990	3.287	3.287
1991	2.570	2.570
1992	1.613	1.613
1993	2.077	2.077
1994	2.087	2.087
1995	2.074	2.074
1996	2.487	2.487
1997	2.542	2.542
1998	1.826	1.826
1999	2.150	2.150
2000	2.071	2.071
2001	2.188	2.188
2002	2.479	2.479
2003	3.264	3.264
2004	2.867	2.867
2005	2.189	2.189
2006	2.474	2.474
2007	2.933	2.933
2008	1.494	1.494
2009	1.366	1.366

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	4.0415	4.0415
2	3.7502	3.7502
3	3.5750	3.5750
4	3.5052	3.5052
5	3.4304	3.4304
6	3.3610	3.3610
7	3.2874	3.2874
8	3.2814	3.2814

9	3.2640	3.2640
10	3.2523	3.2523
11	3.1791	3.1791
12	3.1130	3.1130
13	3.0914	3.0914
14	3.0378	3.0378
15	2.9478	2.9478
16	2.9327	2.9327
17	2.9193	2.9193
18	2.8807	2.8807
19	2.8670	2.8670
20	2.7773	2.7773
21	2.7438	2.7438
22	2.7351	2.7351
23	2.6266	2.6266
24	2.6261	2.6261
25	2.5702	2.5702
26	2.5420	2.5420
27	2.5210	2.5210
28	2.4874	2.4874
29	2.4794	2.4794
30	2.4788	2.4788
31	2.4784	2.4784
32	2.4739	2.4739
33	2.4306	2.4306
34	2.3811	2.3811
35	2.3427	2.3427
36	2.2050	2.2050
37	2.2042	2.2042
38	2.1893	2.1893
39	2.1882	2.1882
40	2.1502	2.1502
41	2.0869	2.0869
42	2.0766	2.0766
43	2.0745	2.0745
44	2.0713	2.0713
45	2.0634	2.0634
46	2.0501	2.0501
47	1.9792	1.9792
48	1.9203	1.9203
49	1.8263	1.8263
50	1.7016	1.7016
51	1.6227	1.6227
52	1.6126	1.6126
53	1.4938	1.4938
54	1.3657	1.3657

Stream Protection Duration

POC #4

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

1.2692	766	766	100	Pass
1.2965	715	715	100	Pass

1.3238	658	658	100	Pass
1.3511	623	623	100	Pass
1.3784	581	581	100	Pass
1.4057	522	522	100	Pass
1.4330	487	487	100	Pass
1.4603	445	445	100	Pass
1.4877	418	418	100	Pass
1.5150	391	391	100	Pass
1.5423	366	366	100	Pass
1.5696	342	342	100	Pass
1.5969	319	319	100	Pass
1.6242	300	300	100	Pass
1.6515	276	276	100	Pass
1.6788	263	263	100	Pass
1.7062	247	247	100	Pass
1.7335	233	233	100	Pass
1.7608	215	215	100	Pass
1.7881	205	205	100	Pass
1.8154	194	194	100	Pass
1.8427	186	186	100	Pass
1.8700	175	175	100	Pass
1.8973	170	170	100	Pass
1.9246	159	159	100	Pass
1.9520	148	148	100	Pass
1.9793	145	145	100	Pass
2.0066	138	138	100	Pass
2.0339	131	131	100	Pass
2.0612	125	125	100	Pass
2.0885	115	115	100	Pass
2.1158	109	109	100	Pass
2.1431	105	105	100	Pass
2.1705	98	98	100	Pass
2.1978	90	90	100	Pass
2.2251	84	84	100	Pass
2.2524	83	83	100	Pass
2.2797	79	79	100	Pass
2.3070	76	76	100	Pass
2.3343	75	75	100	Pass
2.3616	71	71	100	Pass
2.3889	69	69	100	Pass
2.4163	68	68	100	Pass
2.4436	65	65	100	Pass
2.4709	62	62	100	Pass
2.4982	57	57	100	Pass
2.5255	53	53	100	Pass
2.5528	50	50	100	Pass
2.5801	48	48	100	Pass
2.6074	43	43	100	Pass
2.6348	36	36	100	Pass
2.6621	34	34	100	Pass
2.6894	33	33	100	Pass
2.7167	33	33	100	Pass
2.7440	29	29	100	Pass
2.7713	29	29	100	Pass
2.7986	27	27	100	Pass
2.8259	26	26	100	Pass
2.8532	25	25	100	Pass

2.8806	24	24	100	Pass
2.9079	23	23	100	Pass
2.9352	21	21	100	Pass
2.9625	20	20	100	Pass
2.9898	20	20	100	Pass
3.0171	20	20	100	Pass
3.0444	18	18	100	Pass
3.0717	16	16	100	Pass
3.0991	15	15	100	Pass
3.1264	14	14	100	Pass
3.1537	14	14	100	Pass
3.1810	11	11	100	Pass
3.2083	11	11	100	Pass
3.2356	11	11	100	Pass
3.2629	10	10	100	Pass
3.2902	6	6	100	Pass
3.3175	6	6	100	Pass
3.3449	6	6	100	Pass
3.3722	5	5	100	Pass
3.3995	5	5	100	Pass
3.4268	5	5	100	Pass
3.4541	4	4	100	Pass
3.4814	4	4	100	Pass
3.5087	3	3	100	Pass
3.5360	3	3	100	Pass
3.5634	3	3	100	Pass
3.5907	2	2	100	Pass
3.6180	2	2	100	Pass
3.6453	2	2	100	Pass
3.6726	2	2	100	Pass
3.6999	2	2	100	Pass
3.7272	2	2	100	Pass
3.7545	1	1	100	Pass
3.7818	1	1	100	Pass
3.8092	1	1	100	Pass
3.8365	1	1	100	Pass
3.8638	1	1	100	Pass
3.8911	1	1	100	Pass
3.9184	1	1	100	Pass
3.9457	1	1	100	Pass
3.9730	1	1	100	Pass

Water Quality BMP Flow and Volume for POC #4
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 4
Average Annual Volume (acft)
Month Predevel Mitigated Percent Pass/Fail
Jan 172.3133 172.3133 100.0 Pass

Feb	132.9762	132.9762	100.0	Pass
Mar	117.2593	117.2593	100.0	Pass
Apr	63.7987	63.7987	100.0	Pass
May	31.3876	31.3876	100.0	Pass
Jun	19.9260	19.9260	100.0	Pass
Jul	9.2993	9.2993	100.0	Pass
Aug	13.1754	13.1754	100.0	Pass
Sep	31.0170	31.0170	100.0	Pass
Oct	82.3754	82.3754	100.0	Pass
Nov	155.0304	155.0304	100.0	Pass
Dec	164.2991	164.2991	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	5.5526	5.5526	100.0	Pass
2	4.4484	4.4484	100.0	Pass
3	5.4067	5.4067	100.0	Pass
4	6.2814	6.2814	100.0	Pass
5	4.8429	4.8429	100.0	Pass
6	6.7686	6.7686	100.0	Pass
7	5.5823	5.5823	100.0	Pass
8	5.5033	5.5033	100.0	Pass
9	5.7419	5.7419	100.0	Pass
10	5.7474	5.7474	100.0	Pass
11	6.8969	6.8969	100.0	Pass
12	5.7472	5.7472	100.0	Pass
13	6.8396	6.8396	100.0	Pass
14	6.9452	6.9452	100.0	Pass
15	6.3967	6.3967	100.0	Pass
16	5.4648	5.4648	100.0	Pass
17	5.1719	5.1719	100.0	Pass
18	4.5367	4.5367	100.0	Pass
19	4.4084	4.4084	100.0	Pass
20	3.0268	3.0268	100.0	Pass
21	5.0664	5.0664	100.0	Pass
22	6.5071	6.5071	100.0	Pass
23	7.4053	7.4053	100.0	Pass
24	5.4551	5.4551	100.0	Pass
25	4.5382	4.5382	100.0	Pass
26	4.0592	4.0592	100.0	Pass
27	4.8571	4.8571	100.0	Pass
28	6.1254	6.1254	100.0	Pass
29	4.9886	4.9886	100.0	Pass
30	5.5505	5.5505	100.0	Pass
31	3.6540	3.6540	100.0	Pass
Feb1	3.9033	3.9033	100.0	Pass
2	3.5347	3.5347	100.0	Pass
3	3.2381	3.2381	100.0	Pass
4	2.9982	2.9982	100.0	Pass
5	5.1636	5.1636	100.0	Pass
6	3.0919	3.0919	100.0	Pass
7	3.9391	3.9391	100.0	Pass
8	3.0843	3.0843	100.0	Pass
9	3.5253	3.5253	100.0	Pass
10	4.7067	4.7067	100.0	Pass
11	6.3459	6.3459	100.0	Pass
12	5.2465	5.2465	100.0	Pass
13	5.3956	5.3956	100.0	Pass

14	7.2840	7.2840	100.0	Pass
15	5.8070	5.8070	100.0	Pass
16	7.1331	7.1331	100.0	Pass
17	6.4594	6.4594	100.0	Pass
18	5.3916	5.3916	100.0	Pass
19	4.5344	4.5344	100.0	Pass
20	4.3712	4.3712	100.0	Pass
21	3.5497	3.5497	100.0	Pass
22	4.9508	4.9508	100.0	Pass
23	4.8920	4.8920	100.0	Pass
24	5.3402	5.3402	100.0	Pass
25	4.8654	4.8654	100.0	Pass
26	4.8547	4.8547	100.0	Pass
27	4.3005	4.3005	100.0	Pass
28	5.1315	5.1315	100.0	Pass
29	3.9853	3.9853	100.0	Pass
Mar1	3.8840	3.8840	100.0	Pass
2	3.2659	3.2659	100.0	Pass
3	4.3568	4.3568	100.0	Pass
4	4.6929	4.6929	100.0	Pass
5	3.7551	3.7551	100.0	Pass
6	4.6986	4.6986	100.0	Pass
7	4.5570	4.5570	100.0	Pass
8	4.4686	4.4686	100.0	Pass
9	4.4692	4.4692	100.0	Pass
10	3.9817	3.9817	100.0	Pass
11	4.2282	4.2282	100.0	Pass
12	3.7715	3.7715	100.0	Pass
13	4.4675	4.4675	100.0	Pass
14	3.6587	3.6587	100.0	Pass
15	2.9850	2.9850	100.0	Pass
16	2.7974	2.7974	100.0	Pass
17	3.7606	3.7606	100.0	Pass
18	2.4839	2.4839	100.0	Pass
19	3.3919	3.3919	100.0	Pass
20	2.8086	2.8086	100.0	Pass
21	4.5368	4.5368	100.0	Pass
22	5.2127	5.2127	100.0	Pass
23	4.5512	4.5512	100.0	Pass
24	3.0541	3.0541	100.0	Pass
25	4.2395	4.2395	100.0	Pass
26	3.2832	3.2832	100.0	Pass
27	3.0196	3.0196	100.0	Pass
28	3.3812	3.3812	100.0	Pass
29	3.1297	3.1297	100.0	Pass
30	2.3959	2.3959	100.0	Pass
31	1.9105	1.9105	100.0	Pass
Apr1	1.9713	1.9713	100.0	Pass
2	2.1867	2.1867	100.0	Pass
3	2.9330	2.9330	100.0	Pass
4	2.7988	2.7988	100.0	Pass
5	3.0348	3.0348	100.0	Pass
6	1.7475	1.7475	100.0	Pass
7	2.5870	2.5870	100.0	Pass
8	2.6929	2.6929	100.0	Pass
9	2.3923	2.3923	100.0	Pass
10	2.3545	2.3545	100.0	Pass

11	3.0725	3.0725	100.0	Pass
12	2.8095	2.8095	100.0	Pass
13	2.8455	2.8455	100.0	Pass
14	2.5176	2.5176	100.0	Pass
15	2.6477	2.6477	100.0	Pass
16	1.5892	1.5892	100.0	Pass
17	1.9587	1.9587	100.0	Pass
18	2.2615	2.2615	100.0	Pass
19	1.3442	1.3442	100.0	Pass
20	1.2156	1.2156	100.0	Pass
21	1.9519	1.9519	100.0	Pass
22	1.6752	1.6752	100.0	Pass
23	1.4716	1.4716	100.0	Pass
24	1.1881	1.1881	100.0	Pass
25	1.3954	1.3954	100.0	Pass
26	2.3105	2.3105	100.0	Pass
27	1.9488	1.9488	100.0	Pass
28	1.9631	1.9631	100.0	Pass
29	1.0298	1.0298	100.0	Pass
30	1.2118	1.2118	100.0	Pass
May1	1.8094	1.8094	100.0	Pass
2	1.3953	1.3953	100.0	Pass
3	1.4798	1.4798	100.0	Pass
4	1.1597	1.1597	100.0	Pass
5	1.1176	1.1176	100.0	Pass
6	0.9383	0.9383	100.0	Pass
7	1.2095	1.2095	100.0	Pass
8	0.7939	0.7939	100.0	Pass
9	1.0251	1.0251	100.0	Pass
10	0.8236	0.8236	100.0	Pass
11	0.7940	0.7940	100.0	Pass
12	1.1220	1.1220	100.0	Pass
13	1.1748	1.1748	100.0	Pass
14	1.1528	1.1528	100.0	Pass
15	0.8201	0.8201	100.0	Pass
16	0.9886	0.9886	100.0	Pass
17	0.8151	0.8151	100.0	Pass
18	1.3050	1.3050	100.0	Pass
19	0.7441	0.7441	100.0	Pass
20	0.6721	0.6721	100.0	Pass
21	0.6951	0.6951	100.0	Pass
22	0.8059	0.8059	100.0	Pass
23	0.7560	0.7560	100.0	Pass
24	0.7899	0.7899	100.0	Pass
25	0.6518	0.6518	100.0	Pass
26	1.1144	1.1144	100.0	Pass
27	0.8952	0.8952	100.0	Pass
28	0.9380	0.9380	100.0	Pass
29	1.3151	1.3151	100.0	Pass
30	0.8773	0.8773	100.0	Pass
31	0.9729	0.9729	100.0	Pass
Jun1	0.7704	0.7704	100.0	Pass
2	1.1073	1.1073	100.0	Pass
3	1.0411	1.0411	100.0	Pass
4	0.8081	0.8081	100.0	Pass
5	1.2366	1.2366	100.0	Pass
6	0.5165	0.5165	100.0	Pass

7	0.7809	0.7809	100.0	Pass
8	1.0987	1.0987	100.0	Pass
9	0.8044	0.8044	100.0	Pass
10	0.7409	0.7409	100.0	Pass
11	0.5536	0.5536	100.0	Pass
12	0.6412	0.6412	100.0	Pass
13	1.0375	1.0375	100.0	Pass
14	0.4702	0.4702	100.0	Pass
15	0.8678	0.8678	100.0	Pass
16	0.4010	0.4010	100.0	Pass
17	0.5236	0.5236	100.0	Pass
18	0.3733	0.3733	100.0	Pass
19	0.4273	0.4273	100.0	Pass
20	0.4706	0.4706	100.0	Pass
21	0.4499	0.4499	100.0	Pass
22	0.2756	0.2756	100.0	Pass
23	1.2451	1.2451	100.0	Pass
24	0.3747	0.3747	100.0	Pass
25	0.5910	0.5910	100.0	Pass
26	0.3408	0.3408	100.0	Pass
27	0.3094	0.3094	100.0	Pass
28	0.3073	0.3073	100.0	Pass
29	0.3911	0.3911	100.0	Pass
30	0.8409	0.8409	100.0	Pass
Jul1	0.2229	0.2229	100.0	Pass
2	0.1979	0.1979	100.0	Pass
3	0.2132	0.2132	100.0	Pass
4	0.5072	0.5072	100.0	Pass
5	0.3668	0.3668	100.0	Pass
6	0.2831	0.2831	100.0	Pass
7	0.5433	0.5433	100.0	Pass
8	0.3187	0.3187	100.0	Pass
9	0.6608	0.6608	100.0	Pass
10	0.4310	0.4310	100.0	Pass
11	0.8890	0.8890	100.0	Pass
12	0.5115	0.5115	100.0	Pass
13	0.3775	0.3775	100.0	Pass
14	0.4819	0.4819	100.0	Pass
15	0.2157	0.2157	100.0	Pass
16	0.1254	0.1254	100.0	Pass
17	0.4180	0.4180	100.0	Pass
18	0.1553	0.1553	100.0	Pass
19	0.1976	0.1976	100.0	Pass
20	0.3006	0.3006	100.0	Pass
21	0.2290	0.2290	100.0	Pass
22	0.0189	0.0189	100.0	Pass
23	0.0775	0.0775	100.0	Pass
24	0.0768	0.0768	100.0	Pass
25	0.1787	0.1787	100.0	Pass
26	0.0870	0.0870	100.0	Pass
27	0.1023	0.1023	100.0	Pass
28	0.0970	0.0970	100.0	Pass
29	0.0667	0.0667	100.0	Pass
30	0.1081	0.1081	100.0	Pass
31	0.1093	0.1093	100.0	Pass
Aug1	0.4808	0.4808	100.0	Pass
2	0.1676	0.1676	100.0	Pass

3	0.0763	0.0763	100.0	Pass
4	0.0700	0.0700	100.0	Pass
5	0.5320	0.5320	100.0	Pass
6	0.3787	0.3787	100.0	Pass
7	0.1319	0.1319	100.0	Pass
8	0.1395	0.1395	100.0	Pass
9	0.0160	0.0160	100.0	Pass
10	0.0857	0.0857	100.0	Pass
11	0.3475	0.3475	100.0	Pass
12	0.3122	0.3122	100.0	Pass
13	0.3734	0.3734	100.0	Pass
14	0.2252	0.2252	100.0	Pass
15	0.2104	0.2104	100.0	Pass
16	0.2040	0.2040	100.0	Pass
17	0.3577	0.3577	100.0	Pass
18	0.6671	0.6671	100.0	Pass
19	0.1932	0.1932	100.0	Pass
20	0.5283	0.5283	100.0	Pass
21	0.4683	0.4683	100.0	Pass
22	0.9270	0.9270	100.0	Pass
23	0.8541	0.8541	100.0	Pass
24	0.7342	0.7342	100.0	Pass
25	0.3336	0.3336	100.0	Pass
26	0.8805	0.8805	100.0	Pass
27	0.9285	0.9285	100.0	Pass
28	0.9044	0.9044	100.0	Pass
29	0.6251	0.6251	100.0	Pass
30	0.9137	0.9137	100.0	Pass
31	1.4529	1.4529	100.0	Pass
Sep1	0.6059	0.6059	100.0	Pass
2	0.5923	0.5923	100.0	Pass
3	0.6501	0.6501	100.0	Pass
4	0.8008	0.8008	100.0	Pass
5	0.6688	0.6688	100.0	Pass
6	0.4834	0.4834	100.0	Pass
7	0.9018	0.9018	100.0	Pass
8	0.5994	0.5994	100.0	Pass
9	1.4966	1.4966	100.0	Pass
10	0.3333	0.3333	100.0	Pass
11	0.3064	0.3064	100.0	Pass
12	0.8194	0.8194	100.0	Pass
13	1.4359	1.4359	100.0	Pass
14	0.9446	0.9446	100.0	Pass
15	1.4422	1.4422	100.0	Pass
16	1.6083	1.6083	100.0	Pass
17	1.7073	1.7073	100.0	Pass
18	1.4932	1.4932	100.0	Pass
19	1.6373	1.6373	100.0	Pass
20	1.1974	1.1974	100.0	Pass
21	1.7305	1.7305	100.0	Pass
22	1.4240	1.4240	100.0	Pass
23	1.0813	1.0813	100.0	Pass
24	0.7524	0.7524	100.0	Pass
25	0.7891	0.7891	100.0	Pass
26	0.7991	0.7991	100.0	Pass
27	1.0772	1.0772	100.0	Pass
28	0.9539	0.9539	100.0	Pass

29	1.2363	1.2363	100.0	Pass
30	0.8808	0.8808	100.0	Pass
Oct1	0.6680	0.6680	100.0	Pass
2	1.5642	1.5642	100.0	Pass
3	1.4232	1.4232	100.0	Pass
4	1.7960	1.7960	100.0	Pass
5	1.9750	1.9750	100.0	Pass
6	2.0927	2.0927	100.0	Pass
7	2.7012	2.7012	100.0	Pass
8	2.2616	2.2616	100.0	Pass
9	1.7455	1.7455	100.0	Pass
10	1.4922	1.4922	100.0	Pass
11	2.5956	2.5956	100.0	Pass
12	1.8088	1.8088	100.0	Pass
13	2.4077	2.4077	100.0	Pass
14	1.4613	1.4613	100.0	Pass
15	1.6793	1.6793	100.0	Pass
16	2.3357	2.3357	100.0	Pass
17	2.1796	2.1796	100.0	Pass
18	3.3897	3.3897	100.0	Pass
19	4.3597	4.3597	100.0	Pass
20	3.7600	3.7600	100.0	Pass
21	4.5048	4.5048	100.0	Pass
22	2.7087	2.7087	100.0	Pass
23	4.4457	4.4457	100.0	Pass
24	3.9740	3.9740	100.0	Pass
25	3.5463	3.5463	100.0	Pass
26	4.2793	4.2793	100.0	Pass
27	3.7271	3.7271	100.0	Pass
28	3.5056	3.5056	100.0	Pass
29	2.9803	2.9803	100.0	Pass
30	4.1365	4.1365	100.0	Pass
31	3.6981	3.6981	100.0	Pass
Nov1	4.6567	4.6567	100.0	Pass
2	5.4982	5.4982	100.0	Pass
3	4.5001	4.5001	100.0	Pass
4	4.3309	4.3309	100.0	Pass
5	4.8731	4.8731	100.0	Pass
6	4.1727	4.1727	100.0	Pass
7	3.7671	3.7671	100.0	Pass
8	4.7462	4.7462	100.0	Pass
9	5.7055	5.7055	100.0	Pass
10	4.9349	4.9349	100.0	Pass
11	5.4493	5.4493	100.0	Pass
12	5.0472	5.0472	100.0	Pass
13	4.0063	4.0063	100.0	Pass
14	4.5054	4.5054	100.0	Pass
15	4.9230	4.9230	100.0	Pass
16	5.2733	5.2733	100.0	Pass
17	4.9031	4.9031	100.0	Pass
18	6.9812	6.9812	100.0	Pass
19	6.5169	6.5169	100.0	Pass
20	4.4379	4.4379	100.0	Pass
21	6.5473	6.5473	100.0	Pass
22	7.7786	7.7786	100.0	Pass
23	6.2788	6.2788	100.0	Pass
24	6.9755	6.9755	100.0	Pass

25	4.9188	4.9188	100.0	Pass
26	3.8938	3.8938	100.0	Pass
27	4.4486	4.4486	100.0	Pass
28	4.3413	4.3413	100.0	Pass
29	6.9288	6.9288	100.0	Pass
30	5.9490	5.9490	100.0	Pass
Dec1	6.3735	6.3735	100.0	Pass
2	6.2840	6.2840	100.0	Pass
3	4.2073	4.2073	100.0	Pass
4	4.3536	4.3536	100.0	Pass
5	3.8482	3.8482	100.0	Pass
6	3.2689	3.2689	100.0	Pass
7	4.5149	4.5149	100.0	Pass
8	5.7833	5.7833	100.0	Pass
9	5.9557	5.9557	100.0	Pass
10	6.4572	6.4572	100.0	Pass
11	4.8266	4.8266	100.0	Pass
12	5.0491	5.0491	100.0	Pass
13	7.2699	7.2699	100.0	Pass
14	5.4677	5.4677	100.0	Pass
15	6.6596	6.6596	100.0	Pass
16	4.8022	4.8022	100.0	Pass
17	5.4256	5.4256	100.0	Pass
18	4.5373	4.5373	100.0	Pass
19	5.1679	5.1679	100.0	Pass
20	5.2161	5.2161	100.0	Pass
21	5.7095	5.7095	100.0	Pass
22	5.7261	5.7261	100.0	Pass
23	6.1400	6.1400	100.0	Pass
24	6.6507	6.6507	100.0	Pass
25	6.0689	6.0689	100.0	Pass
26	5.4609	5.4609	100.0	Pass
27	3.7514	3.7514	100.0	Pass
28	5.5399	5.5399	100.0	Pass
29	3.9834	3.9834	100.0	Pass
30	3.8604	3.8604	100.0	Pass
31	6.4647	6.4647	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #5

Total Pervious Area:0
Total Impervious Area:0.089

Mitigated Landuse Totals for POC #5

Total Pervious Area:0
Total Impervious Area:0.089

Flow Frequency Return Periods for Predeveloped. POC #5

Return Period Flow(cfs)

2 year	0.058435
5 year	0.068913
10 year	0.074696
25 year	0.081061
50 year	0.085267
100 year	0.089105

Flow Frequency Return Periods for Mitigated. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.058435
5 year	0.068913
10 year	0.074696
25 year	0.081061
50 year	0.085267
100 year	0.089105

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #5

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.060	0.060
1957	0.076	0.076
1958	0.059	0.059
1959	0.058	0.058
1960	0.060	0.060
1961	0.051	0.051
1962	0.079	0.079
1963	0.072	0.072
1964	0.064	0.064
1965	0.063	0.063
1966	0.061	0.061
1967	0.041	0.041
1968	0.059	0.059
1969	0.056	0.056
1970	0.055	0.055
1971	0.081	0.081
1972	0.068	0.068
1973	0.065	0.065
1974	0.061	0.061
1975	0.055	0.055
1976	0.067	0.067
1977	0.049	0.049
1978	0.085	0.085
1979	0.053	0.053
1980	0.050	0.050
1981	0.063	0.063
1982	0.073	0.073
1983	0.057	0.057
1984	0.053	0.053
1985	0.042	0.042
1986	0.064	0.064
1987	0.045	0.045
1988	0.068	0.068
1989	0.057	0.057
1990	0.073	0.073
1991	0.051	0.051
1992	0.040	0.040

1993	0.043	0.043
1994	0.055	0.055
1995	0.056	0.056
1996	0.067	0.067
1997	0.064	0.064
1998	0.042	0.042
1999	0.050	0.050
2000	0.048	0.048
2001	0.046	0.046
2002	0.074	0.074
2003	0.077	0.077
2004	0.073	0.073
2005	0.058	0.058
2006	0.059	0.059
2007	0.069	0.069
2008	0.037	0.037
2009	0.036	0.036

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	0.0846	0.0846
2	0.0812	0.0812
3	0.0789	0.0789
4	0.0773	0.0773
5	0.0756	0.0756
6	0.0735	0.0735
7	0.0729	0.0729
8	0.0728	0.0728
9	0.0727	0.0727
10	0.0725	0.0725
11	0.0685	0.0685
12	0.0680	0.0680
13	0.0678	0.0678
14	0.0675	0.0675
15	0.0671	0.0671
16	0.0646	0.0646
17	0.0642	0.0642
18	0.0639	0.0639
19	0.0637	0.0637
20	0.0630	0.0630
21	0.0629	0.0629
22	0.0613	0.0613
23	0.0612	0.0612
24	0.0603	0.0603
25	0.0602	0.0602
26	0.0594	0.0594
27	0.0589	0.0589
28	0.0587	0.0587
29	0.0584	0.0584
30	0.0580	0.0580
31	0.0572	0.0572
32	0.0570	0.0570
33	0.0558	0.0558
34	0.0557	0.0557
35	0.0553	0.0553

36	0.0550	0.0550
37	0.0549	0.0549
38	0.0532	0.0532
39	0.0531	0.0531
40	0.0511	0.0511
41	0.0511	0.0511
42	0.0502	0.0502
43	0.0496	0.0496
44	0.0494	0.0494
45	0.0477	0.0477
46	0.0456	0.0456
47	0.0448	0.0448
48	0.0435	0.0435
49	0.0421	0.0421
50	0.0417	0.0417
51	0.0406	0.0406
52	0.0395	0.0395
53	0.0374	0.0374
54	0.0358	0.0358

Stream Protection Duration

POC #5

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0292	1244	1244	100	Pass
0.0298	1162	1162	100	Pass
0.0303	1076	1076	100	Pass
0.0309	1006	1006	100	Pass
0.0315	940	940	100	Pass
0.0320	882	882	100	Pass
0.0326	813	813	100	Pass
0.0332	751	751	100	Pass
0.0337	693	693	100	Pass
0.0343	652	652	100	Pass
0.0349	594	594	100	Pass
0.0354	551	551	100	Pass
0.0360	512	512	100	Pass
0.0366	476	476	100	Pass
0.0371	436	436	100	Pass
0.0377	405	405	100	Pass
0.0383	375	375	100	Pass
0.0388	354	354	100	Pass
0.0394	330	330	100	Pass
0.0400	309	309	100	Pass
0.0405	294	294	100	Pass
0.0411	276	276	100	Pass
0.0417	259	259	100	Pass
0.0422	247	247	100	Pass
0.0428	231	231	100	Pass
0.0434	221	221	100	Pass
0.0439	209	209	100	Pass
0.0445	196	196	100	Pass
0.0451	187	187	100	Pass

0.0456	179	179	100	Pass
0.0462	168	168	100	Pass
0.0468	160	160	100	Pass
0.0473	153	153	100	Pass
0.0479	142	142	100	Pass
0.0485	134	134	100	Pass
0.0490	127	127	100	Pass
0.0496	116	116	100	Pass
0.0502	109	109	100	Pass
0.0507	105	105	100	Pass
0.0513	98	98	100	Pass
0.0519	96	96	100	Pass
0.0524	90	90	100	Pass
0.0530	87	87	100	Pass
0.0536	80	80	100	Pass
0.0541	75	75	100	Pass
0.0547	73	73	100	Pass
0.0553	68	68	100	Pass
0.0558	62	62	100	Pass
0.0564	60	60	100	Pass
0.0570	57	57	100	Pass
0.0575	53	53	100	Pass
0.0581	51	51	100	Pass
0.0587	48	48	100	Pass
0.0592	45	45	100	Pass
0.0598	42	42	100	Pass
0.0604	39	39	100	Pass
0.0609	37	37	100	Pass
0.0615	34	34	100	Pass
0.0621	34	34	100	Pass
0.0626	33	33	100	Pass
0.0632	30	30	100	Pass
0.0638	28	28	100	Pass
0.0643	26	26	100	Pass
0.0649	25	25	100	Pass
0.0655	24	24	100	Pass
0.0660	24	24	100	Pass
0.0666	24	24	100	Pass
0.0671	21	21	100	Pass
0.0677	20	20	100	Pass
0.0683	17	17	100	Pass
0.0688	14	14	100	Pass
0.0694	14	14	100	Pass
0.0700	13	13	100	Pass
0.0705	13	13	100	Pass
0.0711	12	12	100	Pass
0.0717	12	12	100	Pass
0.0722	12	12	100	Pass
0.0728	9	9	100	Pass
0.0734	8	8	100	Pass
0.0739	6	6	100	Pass
0.0745	6	6	100	Pass
0.0751	6	6	100	Pass
0.0756	5	5	100	Pass
0.0762	4	4	100	Pass
0.0768	4	4	100	Pass
0.0773	3	3	100	Pass

0.0779	3	3	100	Pass
0.0785	3	3	100	Pass
0.0790	2	2	100	Pass
0.0796	2	2	100	Pass
0.0802	2	2	100	Pass
0.0807	2	2	100	Pass
0.0813	1	1	100	Pass
0.0819	1	1	100	Pass
0.0824	1	1	100	Pass
0.0830	1	1	100	Pass
0.0836	1	1	100	Pass
0.0841	1	1	100	Pass
0.0847	0	0	100	Pass
0.0853	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #5

On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 5

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	3.5496	3.5496	100.0	Pass
Feb	2.7064	2.7064	100.0	Pass
Mar	2.4027	2.4027	100.0	Pass
Apr	1.3558	1.3558	100.0	Pass
May	0.7540	0.7540	100.0	Pass
Jun	0.5088	0.5088	100.0	Pass
Jul	0.2566	0.2566	100.0	Pass
Aug	0.3895	0.3895	100.0	Pass
Sep	0.8657	0.8657	100.0	Pass
Oct	2.0672	2.0672	100.0	Pass
Nov	3.4128	3.4128	100.0	Pass
Dec	3.4242	3.4242	100.0	Pass

Day Predevel Mitigated Percent Pass/Fail

Jan1	0.1144	0.1144	100.0	Pass
2	0.0875	0.0875	100.0	Pass
3	0.1155	0.1155	100.0	Pass
4	0.1381	0.1381	100.0	Pass
5	0.0952	0.0952	100.0	Pass
6	0.1515	0.1515	100.0	Pass
7	0.1114	0.1114	100.0	Pass
8	0.1134	0.1134	100.0	Pass
9	0.1233	0.1233	100.0	Pass
10	0.1175	0.1175	100.0	Pass
11	0.1465	0.1465	100.0	Pass
12	0.1109	0.1109	100.0	Pass
13	0.1447	0.1447	100.0	Pass
14	0.1429	0.1429	100.0	Pass

15	0.1288	0.1288	100.0	Pass
16	0.1022	0.1022	100.0	Pass
17	0.0990	0.0990	100.0	Pass
18	0.0873	0.0873	100.0	Pass
19	0.0891	0.0891	100.0	Pass
20	0.0552	0.0552	100.0	Pass
21	0.1204	0.1204	100.0	Pass
22	0.1416	0.1416	100.0	Pass
23	0.1564	0.1564	100.0	Pass
24	0.1008	0.1008	100.0	Pass
25	0.0852	0.0852	100.0	Pass
26	0.0770	0.0770	100.0	Pass
27	0.1028	0.1028	100.0	Pass
28	0.1323	0.1323	100.0	Pass
29	0.0968	0.0968	100.0	Pass
30	0.1183	0.1183	100.0	Pass
31	0.0657	0.0657	100.0	Pass
Feb1	0.0787	0.0787	100.0	Pass
2	0.0727	0.0727	100.0	Pass
3	0.0649	0.0649	100.0	Pass
4	0.0601	0.0601	100.0	Pass
5	0.1180	0.1180	100.0	Pass
6	0.0529	0.0529	100.0	Pass
7	0.0845	0.0845	100.0	Pass
8	0.0618	0.0618	100.0	Pass
9	0.0778	0.0778	100.0	Pass
10	0.1052	0.1052	100.0	Pass
11	0.1371	0.1371	100.0	Pass
12	0.1023	0.1023	100.0	Pass
13	0.1128	0.1128	100.0	Pass
14	0.1626	0.1626	100.0	Pass
15	0.1107	0.1107	100.0	Pass
16	0.1522	0.1522	100.0	Pass
17	0.1304	0.1304	100.0	Pass
18	0.0985	0.0985	100.0	Pass
19	0.0864	0.0864	100.0	Pass
20	0.0844	0.0844	100.0	Pass
21	0.0690	0.0690	100.0	Pass
22	0.1062	0.1062	100.0	Pass
23	0.0995	0.0995	100.0	Pass
24	0.1100	0.1100	100.0	Pass
25	0.0964	0.0964	100.0	Pass
26	0.0944	0.0944	100.0	Pass
27	0.0819	0.0819	100.0	Pass
28	0.1057	0.1057	100.0	Pass
29	0.0799	0.0799	100.0	Pass
Mar1	0.0794	0.0794	100.0	Pass
2	0.0635	0.0635	100.0	Pass
3	0.0945	0.0945	100.0	Pass
4	0.0980	0.0980	100.0	Pass
5	0.0751	0.0751	100.0	Pass
6	0.0964	0.0964	100.0	Pass
7	0.0958	0.0958	100.0	Pass
8	0.0915	0.0915	100.0	Pass
9	0.0917	0.0917	100.0	Pass
10	0.0784	0.0784	100.0	Pass
11	0.0866	0.0866	100.0	Pass

12	0.0761	0.0761	100.0	Pass
13	0.0942	0.0942	100.0	Pass
14	0.0723	0.0723	100.0	Pass
15	0.0581	0.0581	100.0	Pass
16	0.0573	0.0573	100.0	Pass
17	0.0796	0.0796	100.0	Pass
18	0.0457	0.0457	100.0	Pass
19	0.0742	0.0742	100.0	Pass
20	0.0580	0.0580	100.0	Pass
21	0.1027	0.1027	100.0	Pass
22	0.1140	0.1140	100.0	Pass
23	0.0897	0.0897	100.0	Pass
24	0.0536	0.0536	100.0	Pass
25	0.0916	0.0916	100.0	Pass
26	0.0630	0.0630	100.0	Pass
27	0.0623	0.0623	100.0	Pass
28	0.0699	0.0699	100.0	Pass
29	0.0641	0.0641	100.0	Pass
30	0.0460	0.0460	100.0	Pass
31	0.0371	0.0371	100.0	Pass
Apr1	0.0413	0.0413	100.0	Pass
2	0.0475	0.0475	100.0	Pass
3	0.0678	0.0678	100.0	Pass
4	0.0592	0.0592	100.0	Pass
5	0.0626	0.0626	100.0	Pass
6	0.0310	0.0310	100.0	Pass
7	0.0580	0.0580	100.0	Pass
8	0.0570	0.0570	100.0	Pass
9	0.0507	0.0507	100.0	Pass
10	0.0492	0.0492	100.0	Pass
11	0.0717	0.0717	100.0	Pass
12	0.0586	0.0586	100.0	Pass
13	0.0621	0.0621	100.0	Pass
14	0.0513	0.0513	100.0	Pass
15	0.0554	0.0554	100.0	Pass
16	0.0279	0.0279	100.0	Pass
17	0.0431	0.0431	100.0	Pass
18	0.0504	0.0504	100.0	Pass
19	0.0242	0.0242	100.0	Pass
20	0.0251	0.0251	100.0	Pass
21	0.0458	0.0458	100.0	Pass
22	0.0371	0.0371	100.0	Pass
23	0.0315	0.0315	100.0	Pass
24	0.0251	0.0251	100.0	Pass
25	0.0319	0.0319	100.0	Pass
26	0.0539	0.0539	100.0	Pass
27	0.0400	0.0400	100.0	Pass
28	0.0419	0.0419	100.0	Pass
29	0.0180	0.0180	100.0	Pass
30	0.0276	0.0276	100.0	Pass
May1	0.0449	0.0449	100.0	Pass
2	0.0304	0.0304	100.0	Pass
3	0.0337	0.0337	100.0	Pass
4	0.0254	0.0254	100.0	Pass
5	0.0250	0.0250	100.0	Pass
6	0.0212	0.0212	100.0	Pass
7	0.0292	0.0292	100.0	Pass

8	0.0166	0.0166	100.0	Pass
9	0.0252	0.0252	100.0	Pass
10	0.0198	0.0198	100.0	Pass
11	0.0188	0.0188	100.0	Pass
12	0.0273	0.0273	100.0	Pass
13	0.0293	0.0293	100.0	Pass
14	0.0287	0.0287	100.0	Pass
15	0.0176	0.0176	100.0	Pass
16	0.0249	0.0249	100.0	Pass
17	0.0196	0.0196	100.0	Pass
18	0.0341	0.0341	100.0	Pass
19	0.0163	0.0163	100.0	Pass
20	0.0167	0.0167	100.0	Pass
21	0.0171	0.0171	100.0	Pass
22	0.0218	0.0218	100.0	Pass
23	0.0185	0.0185	100.0	Pass
24	0.0194	0.0194	100.0	Pass
25	0.0159	0.0159	100.0	Pass
26	0.0292	0.0292	100.0	Pass
27	0.0220	0.0220	100.0	Pass
28	0.0243	0.0243	100.0	Pass
29	0.0332	0.0332	100.0	Pass
30	0.0204	0.0204	100.0	Pass
31	0.0225	0.0225	100.0	Pass
Jun1	0.0161	0.0161	100.0	Pass
2	0.0298	0.0298	100.0	Pass
3	0.0279	0.0279	100.0	Pass
4	0.0192	0.0192	100.0	Pass
5	0.0338	0.0338	100.0	Pass
6	0.0109	0.0109	100.0	Pass
7	0.0186	0.0186	100.0	Pass
8	0.0271	0.0271	100.0	Pass
9	0.0198	0.0198	100.0	Pass
10	0.0193	0.0193	100.0	Pass
11	0.0136	0.0136	100.0	Pass
12	0.0174	0.0174	100.0	Pass
13	0.0280	0.0280	100.0	Pass
14	0.0102	0.0102	100.0	Pass
15	0.0226	0.0226	100.0	Pass
16	0.0087	0.0087	100.0	Pass
17	0.0137	0.0137	100.0	Pass
18	0.0085	0.0085	100.0	Pass
19	0.0113	0.0113	100.0	Pass
20	0.0127	0.0127	100.0	Pass
21	0.0124	0.0124	100.0	Pass
22	0.0063	0.0063	100.0	Pass
23	0.0369	0.0369	100.0	Pass
24	0.0079	0.0079	100.0	Pass
25	0.0154	0.0154	100.0	Pass
26	0.0090	0.0090	100.0	Pass
27	0.0085	0.0085	100.0	Pass
28	0.0089	0.0089	100.0	Pass
29	0.0119	0.0119	100.0	Pass
30	0.0256	0.0256	100.0	Pass
Jul1	0.0054	0.0054	100.0	Pass
2	0.0051	0.0051	100.0	Pass
3	0.0059	0.0059	100.0	Pass

4	0.0151	0.0151	100.0	Pass
5	0.0111	0.0111	100.0	Pass
6	0.0083	0.0083	100.0	Pass
7	0.0160	0.0160	100.0	Pass
8	0.0083	0.0083	100.0	Pass
9	0.0189	0.0189	100.0	Pass
10	0.0118	0.0118	100.0	Pass
11	0.0241	0.0241	100.0	Pass
12	0.0102	0.0102	100.0	Pass
13	0.0080	0.0080	100.0	Pass
14	0.0140	0.0140	100.0	Pass
15	0.0051	0.0051	100.0	Pass
16	0.0033	0.0033	100.0	Pass
17	0.0124	0.0124	100.0	Pass
18	0.0035	0.0035	100.0	Pass
19	0.0049	0.0049	100.0	Pass
20	0.0092	0.0092	100.0	Pass
21	0.0069	0.0069	100.0	Pass
22	0.0002	0.0002	100.0	Pass
23	0.0019	0.0019	100.0	Pass
24	0.0024	0.0024	100.0	Pass
25	0.0055	0.0055	100.0	Pass
26	0.0023	0.0023	100.0	Pass
27	0.0035	0.0035	100.0	Pass
28	0.0028	0.0028	100.0	Pass
29	0.0018	0.0018	100.0	Pass
30	0.0032	0.0032	100.0	Pass
31	0.0037	0.0037	100.0	Pass
Aug1	0.0152	0.0152	100.0	Pass
2	0.0048	0.0048	100.0	Pass
3	0.0016	0.0016	100.0	Pass
4	0.0018	0.0018	100.0	Pass
5	0.0170	0.0170	100.0	Pass
6	0.0109	0.0109	100.0	Pass
7	0.0036	0.0036	100.0	Pass
8	0.0040	0.0040	100.0	Pass
9	0.0002	0.0002	100.0	Pass
10	0.0021	0.0021	100.0	Pass
11	0.0111	0.0111	100.0	Pass
12	0.0093	0.0093	100.0	Pass
13	0.0117	0.0117	100.0	Pass
14	0.0068	0.0068	100.0	Pass
15	0.0059	0.0059	100.0	Pass
16	0.0052	0.0052	100.0	Pass
17	0.0108	0.0108	100.0	Pass
18	0.0210	0.0210	100.0	Pass
19	0.0051	0.0051	100.0	Pass
20	0.0161	0.0161	100.0	Pass
21	0.0144	0.0144	100.0	Pass
22	0.0284	0.0284	100.0	Pass
23	0.0258	0.0258	100.0	Pass
24	0.0209	0.0209	100.0	Pass
25	0.0075	0.0075	100.0	Pass
26	0.0271	0.0271	100.0	Pass
27	0.0270	0.0270	100.0	Pass
28	0.0265	0.0265	100.0	Pass
29	0.0163	0.0163	100.0	Pass

30	0.0281	0.0281	100.0	Pass
31	0.0440	0.0440	100.0	Pass
Sep1	0.0146	0.0146	100.0	Pass
2	0.0161	0.0161	100.0	Pass
3	0.0181	0.0181	100.0	Pass
4	0.0235	0.0235	100.0	Pass
5	0.0198	0.0198	100.0	Pass
6	0.0132	0.0132	100.0	Pass
7	0.0277	0.0277	100.0	Pass
8	0.0167	0.0167	100.0	Pass
9	0.0452	0.0452	100.0	Pass
10	0.0092	0.0092	100.0	Pass
11	0.0083	0.0083	100.0	Pass
12	0.0238	0.0238	100.0	Pass
13	0.0444	0.0444	100.0	Pass
14	0.0268	0.0268	100.0	Pass
15	0.0419	0.0419	100.0	Pass
16	0.0428	0.0428	100.0	Pass
17	0.0476	0.0476	100.0	Pass
18	0.0426	0.0426	100.0	Pass
19	0.0448	0.0448	100.0	Pass
20	0.0311	0.0311	100.0	Pass
21	0.0442	0.0442	100.0	Pass
22	0.0350	0.0350	100.0	Pass
23	0.0277	0.0277	100.0	Pass
24	0.0198	0.0198	100.0	Pass
25	0.0221	0.0221	100.0	Pass
26	0.0223	0.0223	100.0	Pass
27	0.0302	0.0302	100.0	Pass
28	0.0265	0.0265	100.0	Pass
29	0.0358	0.0358	100.0	Pass
30	0.0247	0.0247	100.0	Pass
Oct1	0.0168	0.0168	100.0	Pass
2	0.0471	0.0471	100.0	Pass
3	0.0412	0.0412	100.0	Pass
4	0.0497	0.0497	100.0	Pass
5	0.0524	0.0524	100.0	Pass
6	0.0582	0.0582	100.0	Pass
7	0.0741	0.0741	100.0	Pass
8	0.0584	0.0584	100.0	Pass
9	0.0444	0.0444	100.0	Pass
10	0.0361	0.0361	100.0	Pass
11	0.0735	0.0735	100.0	Pass
12	0.0469	0.0469	100.0	Pass
13	0.0683	0.0683	100.0	Pass
14	0.0356	0.0356	100.0	Pass
15	0.0441	0.0441	100.0	Pass
16	0.0602	0.0602	100.0	Pass
17	0.0544	0.0544	100.0	Pass
18	0.0888	0.0888	100.0	Pass
19	0.1082	0.1082	100.0	Pass
20	0.0924	0.0924	100.0	Pass
21	0.1121	0.1121	100.0	Pass
22	0.0608	0.0608	100.0	Pass
23	0.1089	0.1089	100.0	Pass
24	0.0936	0.0936	100.0	Pass
25	0.0827	0.0827	100.0	Pass

26	0.1025	0.1025	100.0	Pass
27	0.0844	0.0844	100.0	Pass
28	0.0788	0.0788	100.0	Pass
29	0.0654	0.0654	100.0	Pass
30	0.1027	0.1027	100.0	Pass
31	0.0831	0.0831	100.0	Pass
Nov1	0.1068	0.1068	100.0	Pass
2	0.1325	0.1325	100.0	Pass
3	0.0966	0.0966	100.0	Pass
4	0.1007	0.1007	100.0	Pass
5	0.1117	0.1117	100.0	Pass
6	0.0904	0.0904	100.0	Pass
7	0.0822	0.0822	100.0	Pass
8	0.1111	0.1111	100.0	Pass
9	0.1308	0.1308	100.0	Pass
10	0.1091	0.1091	100.0	Pass
11	0.1236	0.1236	100.0	Pass
12	0.1140	0.1140	100.0	Pass
13	0.0804	0.0804	100.0	Pass
14	0.0995	0.0995	100.0	Pass
15	0.1127	0.1127	100.0	Pass
16	0.1179	0.1179	100.0	Pass
17	0.1057	0.1057	100.0	Pass
18	0.1606	0.1606	100.0	Pass
19	0.1392	0.1392	100.0	Pass
20	0.0867	0.0867	100.0	Pass
21	0.1476	0.1476	100.0	Pass
22	0.1774	0.1774	100.0	Pass
23	0.1270	0.1270	100.0	Pass
24	0.1492	0.1492	100.0	Pass
25	0.0916	0.0916	100.0	Pass
26	0.0745	0.0745	100.0	Pass
27	0.0975	0.0975	100.0	Pass
28	0.0926	0.0926	100.0	Pass
29	0.1604	0.1604	100.0	Pass
30	0.1212	0.1212	100.0	Pass
Dec1	0.1365	0.1365	100.0	Pass
2	0.1297	0.1297	100.0	Pass
3	0.0784	0.0784	100.0	Pass
4	0.0921	0.0921	100.0	Pass
5	0.0770	0.0770	100.0	Pass
6	0.0679	0.0679	100.0	Pass
7	0.1034	0.1034	100.0	Pass
8	0.1303	0.1303	100.0	Pass
9	0.1258	0.1258	100.0	Pass
10	0.1349	0.1349	100.0	Pass
11	0.0950	0.0950	100.0	Pass
12	0.1058	0.1058	100.0	Pass
13	0.1646	0.1646	100.0	Pass
14	0.1051	0.1051	100.0	Pass
15	0.1463	0.1463	100.0	Pass
16	0.0911	0.0911	100.0	Pass
17	0.1153	0.1153	100.0	Pass
18	0.0925	0.0925	100.0	Pass
19	0.1134	0.1134	100.0	Pass
20	0.1085	0.1085	100.0	Pass
21	0.1195	0.1195	100.0	Pass

22	0.1182	0.1182	100.0	Pass
23	0.1293	0.1293	100.0	Pass
24	0.1452	0.1452	100.0	Pass
25	0.1206	0.1206	100.0	Pass
26	0.1092	0.1092	100.0	Pass
27	0.0706	0.0706	100.0	Pass
28	0.1222	0.1222	100.0	Pass
29	0.0741	0.0741	100.0	Pass
30	0.0811	0.0811	100.0	Pass
31	0.1440	0.1440	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #6

Total Pervious Area:0.631

Total Impervious Area:0.601

Mitigated Landuse Totals for POC #6

Total Pervious Area:0.631

Total Impervious Area:0.601

Flow Frequency Return Periods for Predeveloped. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.602801
5 year	0.749737
10 year	0.831931
25 year	0.922762
50 year	0.9828
100 year	1.037476

Flow Frequency Return Periods for Mitigated. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.602801
5 year	0.749737
10 year	0.831931
25 year	0.922762
50 year	0.9828
100 year	1.037476

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #6

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.702	0.702
1957	0.801	0.801
1958	0.579	0.579
1959	0.657	0.657
1960	0.695	0.695
1961	0.472	0.472
1962	0.919	0.919

1963	0.820	0.820
1964	0.657	0.657
1965	0.685	0.685
1966	0.703	0.703
1967	0.388	0.388
1968	0.647	0.647
1969	0.646	0.646
1970	0.514	0.514
1971	0.926	0.926
1972	0.806	0.806
1973	0.672	0.672
1974	0.709	0.709
1975	0.591	0.591
1976	0.739	0.739
1977	0.501	0.501
1978	0.894	0.894
1979	0.574	0.574
1980	0.513	0.513
1981	0.645	0.645
1982	0.740	0.740
1983	0.589	0.589
1984	0.577	0.577
1985	0.354	0.354
1986	0.685	0.685
1987	0.467	0.467
1988	0.733	0.733
1989	0.584	0.584
1990	0.833	0.833
1991	0.488	0.488
1992	0.363	0.363
1993	0.388	0.388
1994	0.566	0.566
1995	0.437	0.437
1996	0.555	0.555
1997	0.637	0.637
1998	0.375	0.375
1999	0.507	0.507
2000	0.468	0.468
2001	0.402	0.402
2002	0.524	0.524
2003	0.907	0.907
2004	0.810	0.810
2005	0.614	0.614
2006	0.641	0.641
2007	0.776	0.776
2008	0.340	0.340
2009	0.310	0.310

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	0.9257	0.9257
2	0.9187	0.9187
3	0.9068	0.9068
4	0.8937	0.8937
5	0.8333	0.8333

6	0.8199	0.8199
7	0.8099	0.8099
8	0.8064	0.8064
9	0.8013	0.8013
10	0.7758	0.7758
11	0.7399	0.7399
12	0.7394	0.7394
13	0.7330	0.7330
14	0.7085	0.7085
15	0.7031	0.7031
16	0.7021	0.7021
17	0.6953	0.6953
18	0.6851	0.6851
19	0.6848	0.6848
20	0.6722	0.6722
21	0.6572	0.6572
22	0.6571	0.6571
23	0.6475	0.6475
24	0.6458	0.6458
25	0.6446	0.6446
26	0.6406	0.6406
27	0.6372	0.6372
28	0.6136	0.6136
29	0.5906	0.5906
30	0.5893	0.5893
31	0.5844	0.5844
32	0.5786	0.5786
33	0.5766	0.5766
34	0.5736	0.5736
35	0.5659	0.5659
36	0.5554	0.5554
37	0.5244	0.5244
38	0.5142	0.5142
39	0.5134	0.5134
40	0.5071	0.5071
41	0.5006	0.5006
42	0.4879	0.4879
43	0.4721	0.4721
44	0.4681	0.4681
45	0.4666	0.4666
46	0.4372	0.4372
47	0.4021	0.4021
48	0.3881	0.3881
49	0.3880	0.3880
50	0.3752	0.3752
51	0.3625	0.3625
52	0.3536	0.3536
53	0.3404	0.3404
54	0.3103	0.3103

Stream Protection Duration

POC #6

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3014	769	769	100	Pass
0.3083	720	720	100	Pass
0.3152	667	667	100	Pass
0.3220	627	627	100	Pass
0.3289	589	589	100	Pass
0.3358	548	548	100	Pass
0.3427	507	507	100	Pass
0.3496	470	470	100	Pass
0.3565	428	428	100	Pass
0.3633	392	392	100	Pass
0.3702	365	365	100	Pass
0.3771	349	349	100	Pass
0.3840	337	337	100	Pass
0.3909	319	319	100	Pass
0.3978	295	295	100	Pass
0.4046	266	266	100	Pass
0.4115	244	244	100	Pass
0.4184	229	229	100	Pass
0.4253	218	218	100	Pass
0.4322	206	206	100	Pass
0.4391	195	195	100	Pass
0.4459	187	187	100	Pass
0.4528	179	179	100	Pass
0.4597	168	168	100	Pass
0.4666	160	160	100	Pass
0.4735	147	147	100	Pass
0.4804	143	143	100	Pass
0.4872	136	136	100	Pass
0.4941	127	127	100	Pass
0.5010	123	123	100	Pass
0.5079	117	117	100	Pass
0.5148	111	111	100	Pass
0.5217	105	105	100	Pass
0.5285	99	99	100	Pass
0.5354	94	94	100	Pass
0.5423	90	90	100	Pass
0.5492	86	86	100	Pass
0.5561	79	79	100	Pass
0.5629	77	77	100	Pass
0.5698	74	74	100	Pass
0.5767	69	69	100	Pass
0.5836	66	66	100	Pass
0.5905	60	60	100	Pass
0.5974	59	59	100	Pass
0.6042	55	55	100	Pass
0.6111	53	53	100	Pass
0.6180	50	50	100	Pass
0.6249	48	48	100	Pass
0.6318	48	48	100	Pass
0.6387	47	47	100	Pass
0.6455	43	43	100	Pass
0.6524	41	41	100	Pass
0.6593	37	37	100	Pass
0.6662	36	36	100	Pass
0.6731	32	32	100	Pass
0.6800	32	32	100	Pass

0.6868	30	30	100	Pass
0.6937	29	29	100	Pass
0.7006	28	28	100	Pass
0.7075	25	25	100	Pass
0.7144	23	23	100	Pass
0.7213	22	22	100	Pass
0.7281	21	21	100	Pass
0.7350	19	19	100	Pass
0.7419	16	16	100	Pass
0.7488	14	14	100	Pass
0.7557	14	14	100	Pass
0.7625	13	13	100	Pass
0.7694	12	12	100	Pass
0.7763	11	11	100	Pass
0.7832	11	11	100	Pass
0.7901	11	11	100	Pass
0.7970	11	11	100	Pass
0.8038	10	10	100	Pass
0.8107	8	8	100	Pass
0.8176	8	8	100	Pass
0.8245	7	7	100	Pass
0.8314	7	7	100	Pass
0.8383	6	6	100	Pass
0.8451	6	6	100	Pass
0.8520	6	6	100	Pass
0.8589	6	6	100	Pass
0.8658	6	6	100	Pass
0.8727	5	5	100	Pass
0.8796	5	5	100	Pass
0.8864	4	4	100	Pass
0.8933	4	4	100	Pass
0.9002	3	3	100	Pass
0.9071	2	2	100	Pass
0.9140	2	2	100	Pass
0.9209	1	1	100	Pass
0.9277	0	0	100	Pass
0.9346	0	0	0	Pass
0.9415	0	0	0	Pass
0.9484	0	0	0	Pass
0.9553	0	0	0	Pass
0.9622	0	0	0	Pass
0.9690	0	0	0	Pass
0.9759	0	0	0	Pass
0.9828	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #6

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 6

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	43.6001	43.6001	100.0	Pass
Feb	33.6156	33.6156	100.0	Pass
Mar	29.6055	29.6055	100.0	Pass
Apr	16.0103	16.0103	100.0	Pass
May	7.8128	7.8128	100.0	Pass
Jun	4.9422	4.9422	100.0	Pass
Jul	2.3141	2.3141	100.0	Pass
Aug	3.3422	3.3422	100.0	Pass
Sep	8.2637	8.2637	100.0	Pass
Oct	21.8863	21.8863	100.0	Pass
Nov	40.2409	40.2409	100.0	Pass
Dec	42.0713	42.0713	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.3872	1.3872	100.0	Pass
2	1.1432	1.1432	100.0	Pass
3	1.3708	1.3708	100.0	Pass
4	1.5571	1.5571	100.0	Pass
5	1.2448	1.2448	100.0	Pass
6	1.6899	1.6899	100.0	Pass
7	1.4347	1.4347	100.0	Pass
8	1.4106	1.4106	100.0	Pass
9	1.4557	1.4557	100.0	Pass
10	1.4611	1.4611	100.0	Pass
11	1.7315	1.7315	100.0	Pass
12	1.4494	1.4494	100.0	Pass
13	1.7189	1.7189	100.0	Pass
14	1.7473	1.7473	100.0	Pass
15	1.6264	1.6264	100.0	Pass
16	1.4078	1.4078	100.0	Pass
17	1.3257	1.3257	100.0	Pass
18	1.1738	1.1738	100.0	Pass
19	1.1309	1.1309	100.0	Pass
20	0.8134	0.8134	100.0	Pass
21	1.2508	1.2508	100.0	Pass
22	1.6032	1.6032	100.0	Pass
23	1.8385	1.8385	100.0	Pass
24	1.3842	1.3842	100.0	Pass
25	1.1784	1.1784	100.0	Pass
26	1.0616	1.0616	100.0	Pass
27	1.2226	1.2226	100.0	Pass
28	1.5246	1.5246	100.0	Pass
29	1.2601	1.2601	100.0	Pass
30	1.4065	1.4065	100.0	Pass
31	0.9602	0.9602	100.0	Pass
Feb1	1.0116	1.0116	100.0	Pass
2	0.9063	0.9063	100.0	Pass
3	0.8357	0.8357	100.0	Pass
4	0.7747	0.7747	100.0	Pass
5	1.2723	1.2723	100.0	Pass
6	0.7912	0.7912	100.0	Pass
7	0.9862	0.9862	100.0	Pass
8	0.8013	0.8013	100.0	Pass
9	0.8907	0.8907	100.0	Pass
10	1.1526	1.1526	100.0	Pass

11	1.5494	1.5494	100.0	Pass
12	1.3194	1.3194	100.0	Pass
13	1.3549	1.3549	100.0	Pass
14	1.7956	1.7956	100.0	Pass
15	1.4753	1.4753	100.0	Pass
16	1.7794	1.7794	100.0	Pass
17	1.6406	1.6406	100.0	Pass
18	1.3889	1.3889	100.0	Pass
19	1.1923	1.1923	100.0	Pass
20	1.1261	1.1261	100.0	Pass
21	0.9243	0.9243	100.0	Pass
22	1.2431	1.2431	100.0	Pass
23	1.2137	1.2137	100.0	Pass
24	1.3284	1.3284	100.0	Pass
25	1.2273	1.2273	100.0	Pass
26	1.2222	1.2222	100.0	Pass
27	1.0859	1.0859	100.0	Pass
28	1.3263	1.3263	100.0	Pass
29	1.0236	1.0236	100.0	Pass
Mar1	0.9924	0.9924	100.0	Pass
2	0.8412	0.8412	100.0	Pass
3	1.0886	1.0886	100.0	Pass
4	1.1590	1.1590	100.0	Pass
5	0.9515	0.9515	100.0	Pass
6	1.1730	1.1730	100.0	Pass
7	1.1255	1.1255	100.0	Pass
8	1.1229	1.1229	100.0	Pass
9	1.1266	1.1266	100.0	Pass
10	1.0131	1.0131	100.0	Pass
11	1.0698	1.0698	100.0	Pass
12	0.9563	0.9563	100.0	Pass
13	1.1231	1.1231	100.0	Pass
14	0.9387	0.9387	100.0	Pass
15	0.7761	0.7761	100.0	Pass
16	0.7229	0.7229	100.0	Pass
17	0.9449	0.9449	100.0	Pass
18	0.6349	0.6349	100.0	Pass
19	0.8447	0.8447	100.0	Pass
20	0.7145	0.7145	100.0	Pass
21	1.1057	1.1057	100.0	Pass
22	1.2620	1.2620	100.0	Pass
23	1.1347	1.1347	100.0	Pass
24	0.8057	0.8057	100.0	Pass
25	1.0600	1.0600	100.0	Pass
26	0.8458	0.8458	100.0	Pass
27	0.7712	0.7712	100.0	Pass
28	0.8636	0.8636	100.0	Pass
29	0.7890	0.7890	100.0	Pass
30	0.6266	0.6266	100.0	Pass
31	0.5043	0.5043	100.0	Pass
Apr1	0.5096	0.5096	100.0	Pass
2	0.5532	0.5532	100.0	Pass
3	0.7103	0.7103	100.0	Pass
4	0.6877	0.6877	100.0	Pass
5	0.7621	0.7621	100.0	Pass
6	0.4589	0.4589	100.0	Pass
7	0.6370	0.6370	100.0	Pass

8	0.6702	0.6702	100.0	Pass
9	0.5888	0.5888	100.0	Pass
10	0.6040	0.6040	100.0	Pass
11	0.7506	0.7506	100.0	Pass
12	0.6969	0.6969	100.0	Pass
13	0.7089	0.7089	100.0	Pass
14	0.6335	0.6335	100.0	Pass
15	0.6723	0.6723	100.0	Pass
16	0.4221	0.4221	100.0	Pass
17	0.4972	0.4972	100.0	Pass
18	0.5585	0.5585	100.0	Pass
19	0.3568	0.3568	100.0	Pass
20	0.3147	0.3147	100.0	Pass
21	0.4712	0.4712	100.0	Pass
22	0.4107	0.4107	100.0	Pass
23	0.3755	0.3755	100.0	Pass
24	0.3085	0.3085	100.0	Pass
25	0.3428	0.3428	100.0	Pass
26	0.5698	0.5698	100.0	Pass
27	0.4707	0.4707	100.0	Pass
28	0.4900	0.4900	100.0	Pass
29	0.2754	0.2754	100.0	Pass
30	0.3051	0.3051	100.0	Pass
May1	0.4384	0.4384	100.0	Pass
2	0.3553	0.3553	100.0	Pass
3	0.3598	0.3598	100.0	Pass
4	0.3023	0.3023	100.0	Pass
5	0.2822	0.2822	100.0	Pass
6	0.2370	0.2370	100.0	Pass
7	0.2980	0.2980	100.0	Pass
8	0.2022	0.2022	100.0	Pass
9	0.2531	0.2531	100.0	Pass
10	0.2075	0.2075	100.0	Pass
11	0.1923	0.1923	100.0	Pass
12	0.2686	0.2686	100.0	Pass
13	0.2885	0.2885	100.0	Pass
14	0.2821	0.2821	100.0	Pass
15	0.2139	0.2139	100.0	Pass
16	0.2455	0.2455	100.0	Pass
17	0.2121	0.2121	100.0	Pass
18	0.3090	0.3090	100.0	Pass
19	0.1875	0.1875	100.0	Pass
20	0.1690	0.1690	100.0	Pass
21	0.1727	0.1727	100.0	Pass
22	0.2001	0.2001	100.0	Pass
23	0.1859	0.1859	100.0	Pass
24	0.1958	0.1958	100.0	Pass
25	0.1688	0.1688	100.0	Pass
26	0.2708	0.2708	100.0	Pass
27	0.2257	0.2257	100.0	Pass
28	0.2373	0.2373	100.0	Pass
29	0.3227	0.3227	100.0	Pass
30	0.2246	0.2246	100.0	Pass
31	0.2422	0.2422	100.0	Pass
Jun1	0.1942	0.1942	100.0	Pass
2	0.2695	0.2695	100.0	Pass
3	0.2593	0.2593	100.0	Pass

4	0.1987	0.1987	100.0	Pass
5	0.3077	0.3077	100.0	Pass
6	0.1444	0.1444	100.0	Pass
7	0.1941	0.1941	100.0	Pass
8	0.2598	0.2598	100.0	Pass
9	0.2027	0.2027	100.0	Pass
10	0.1847	0.1847	100.0	Pass
11	0.1401	0.1401	100.0	Pass
12	0.1572	0.1572	100.0	Pass
13	0.2488	0.2488	100.0	Pass
14	0.1217	0.1217	100.0	Pass
15	0.2096	0.2096	100.0	Pass
16	0.1096	0.1096	100.0	Pass
17	0.1353	0.1353	100.0	Pass
18	0.1030	0.1030	100.0	Pass
19	0.1046	0.1046	100.0	Pass
20	0.1089	0.1089	100.0	Pass
21	0.1147	0.1147	100.0	Pass
22	0.0688	0.0688	100.0	Pass
23	0.2881	0.2881	100.0	Pass
24	0.1075	0.1075	100.0	Pass
25	0.1413	0.1413	100.0	Pass
26	0.0864	0.0864	100.0	Pass
27	0.0730	0.0730	100.0	Pass
28	0.0733	0.0733	100.0	Pass
29	0.0935	0.0935	100.0	Pass
30	0.2085	0.2085	100.0	Pass
Jul11	0.0656	0.0656	100.0	Pass
2	0.0500	0.0500	100.0	Pass
3	0.0494	0.0494	100.0	Pass
4	0.1085	0.1085	100.0	Pass
5	0.0843	0.0843	100.0	Pass
6	0.0648	0.0648	100.0	Pass
7	0.1297	0.1297	100.0	Pass
8	0.0843	0.0843	100.0	Pass
9	0.1535	0.1535	100.0	Pass
10	0.1081	0.1081	100.0	Pass
11	0.2232	0.2232	100.0	Pass
12	0.1440	0.1440	100.0	Pass
13	0.0995	0.0995	100.0	Pass
14	0.1281	0.1281	100.0	Pass
15	0.0576	0.0576	100.0	Pass
16	0.0356	0.0356	100.0	Pass
17	0.1038	0.1038	100.0	Pass
18	0.0452	0.0452	100.0	Pass
19	0.0469	0.0469	100.0	Pass
20	0.0730	0.0730	100.0	Pass
21	0.0638	0.0638	100.0	Pass
22	0.0120	0.0120	100.0	Pass
23	0.0186	0.0186	100.0	Pass
24	0.0190	0.0190	100.0	Pass
25	0.0391	0.0391	100.0	Pass
26	0.0164	0.0164	100.0	Pass
27	0.0243	0.0243	100.0	Pass
28	0.0207	0.0207	100.0	Pass
29	0.0140	0.0140	100.0	Pass
30	0.0227	0.0227	100.0	Pass

31	0.0263	0.0263	100.0	Pass
Aug1	0.1083	0.1083	100.0	Pass
2	0.0443	0.0443	100.0	Pass
3	0.0201	0.0201	100.0	Pass
4	0.0177	0.0177	100.0	Pass
5	0.1273	0.1273	100.0	Pass
6	0.0919	0.0919	100.0	Pass
7	0.0378	0.0378	100.0	Pass
8	0.0341	0.0341	100.0	Pass
9	0.0047	0.0047	100.0	Pass
10	0.0170	0.0170	100.0	Pass
11	0.0786	0.0786	100.0	Pass
12	0.0690	0.0690	100.0	Pass
13	0.0880	0.0880	100.0	Pass
14	0.0600	0.0600	100.0	Pass
15	0.0573	0.0573	100.0	Pass
16	0.0458	0.0458	100.0	Pass
17	0.0793	0.0793	100.0	Pass
18	0.1519	0.1519	100.0	Pass
19	0.0537	0.0537	100.0	Pass
20	0.1211	0.1211	100.0	Pass
21	0.1190	0.1190	100.0	Pass
22	0.2258	0.2258	100.0	Pass
23	0.2268	0.2268	100.0	Pass
24	0.2218	0.2218	100.0	Pass
25	0.1049	0.1049	100.0	Pass
26	0.2243	0.2243	100.0	Pass
27	0.2392	0.2392	100.0	Pass
28	0.2505	0.2505	100.0	Pass
29	0.1631	0.1631	100.0	Pass
30	0.2328	0.2328	100.0	Pass
31	0.3803	0.3803	100.0	Pass
Sep1	0.1906	0.1906	100.0	Pass
2	0.1745	0.1745	100.0	Pass
3	0.1762	0.1762	100.0	Pass
4	0.2072	0.2072	100.0	Pass
5	0.1823	0.1823	100.0	Pass
6	0.1309	0.1309	100.0	Pass
7	0.2225	0.2225	100.0	Pass
8	0.1577	0.1577	100.0	Pass
9	0.3583	0.3583	100.0	Pass
10	0.1094	0.1094	100.0	Pass
11	0.0833	0.0833	100.0	Pass
12	0.1902	0.1902	100.0	Pass
13	0.3630	0.3630	100.0	Pass
14	0.2572	0.2572	100.0	Pass
15	0.3673	0.3673	100.0	Pass
16	0.4215	0.4215	100.0	Pass
17	0.4400	0.4400	100.0	Pass
18	0.4011	0.4011	100.0	Pass
19	0.4437	0.4437	100.0	Pass
20	0.3539	0.3539	100.0	Pass
21	0.4677	0.4677	100.0	Pass
22	0.3836	0.3836	100.0	Pass
23	0.3001	0.3001	100.0	Pass
24	0.2162	0.2162	100.0	Pass
25	0.2104	0.2104	100.0	Pass

26	0.2121	0.2121	100.0	Pass
27	0.2943	0.2943	100.0	Pass
28	0.2504	0.2504	100.0	Pass
29	0.3190	0.3190	100.0	Pass
30	0.2533	0.2533	100.0	Pass
Oct1	0.1869	0.1869	100.0	Pass
2	0.3916	0.3916	100.0	Pass
3	0.3660	0.3660	100.0	Pass
4	0.4605	0.4605	100.0	Pass
5	0.4955	0.4955	100.0	Pass
6	0.5424	0.5424	100.0	Pass
7	0.7037	0.7037	100.0	Pass
8	0.6075	0.6075	100.0	Pass
9	0.4876	0.4876	100.0	Pass
10	0.4029	0.4029	100.0	Pass
11	0.6701	0.6701	100.0	Pass
12	0.4962	0.4962	100.0	Pass
13	0.6398	0.6398	100.0	Pass
14	0.4282	0.4282	100.0	Pass
15	0.4668	0.4668	100.0	Pass
16	0.6176	0.6176	100.0	Pass
17	0.5757	0.5757	100.0	Pass
18	0.8933	0.8933	100.0	Pass
19	1.1242	1.1242	100.0	Pass
20	0.9888	0.9888	100.0	Pass
21	1.1853	1.1853	100.0	Pass
22	0.7964	0.7964	100.0	Pass
23	1.1576	1.1576	100.0	Pass
24	1.0515	1.0515	100.0	Pass
25	0.9597	0.9597	100.0	Pass
26	1.1191	1.1191	100.0	Pass
27	1.0023	1.0023	100.0	Pass
28	0.9277	0.9277	100.0	Pass
29	0.8075	0.8075	100.0	Pass
30	1.0829	1.0829	100.0	Pass
31	0.9802	0.9802	100.0	Pass
Nov1	1.2004	1.2004	100.0	Pass
2	1.3875	1.3875	100.0	Pass
3	1.1992	1.1992	100.0	Pass
4	1.1649	1.1649	100.0	Pass
5	1.2816	1.2816	100.0	Pass
6	1.1260	1.1260	100.0	Pass
7	1.0163	1.0163	100.0	Pass
8	1.2179	1.2179	100.0	Pass
9	1.4479	1.4479	100.0	Pass
10	1.2948	1.2948	100.0	Pass
11	1.4194	1.4194	100.0	Pass
12	1.3173	1.3173	100.0	Pass
13	1.0788	1.0788	100.0	Pass
14	1.1640	1.1640	100.0	Pass
15	1.2925	1.2925	100.0	Pass
16	1.3455	1.3455	100.0	Pass
17	1.2679	1.2679	100.0	Pass
18	1.7720	1.7720	100.0	Pass
19	1.6657	1.6657	100.0	Pass
20	1.2024	1.2024	100.0	Pass
21	1.6856	1.6856	100.0	Pass

22	1.9356	1.9356	100.0	Pass
23	1.6237	1.6237	100.0	Pass
24	1.7871	1.7871	100.0	Pass
25	1.3049	1.3049	100.0	Pass
26	1.0590	1.0590	100.0	Pass
27	1.1611	1.1611	100.0	Pass
28	1.1140	1.1140	100.0	Pass
29	1.7300	1.7300	100.0	Pass
30	1.5055	1.5055	100.0	Pass
Dec1	1.6140	1.6140	100.0	Pass
2	1.6073	1.6073	100.0	Pass
3	1.1177	1.1177	100.0	Pass
4	1.1470	1.1470	100.0	Pass
5	1.0228	1.0228	100.0	Pass
6	0.8660	0.8660	100.0	Pass
7	1.1494	1.1494	100.0	Pass
8	1.4378	1.4378	100.0	Pass
9	1.4888	1.4888	100.0	Pass
10	1.6219	1.6219	100.0	Pass
11	1.2445	1.2445	100.0	Pass
12	1.2962	1.2962	100.0	Pass
13	1.7996	1.7996	100.0	Pass
14	1.4123	1.4123	100.0	Pass
15	1.6883	1.6883	100.0	Pass
16	1.2710	1.2710	100.0	Pass
17	1.3989	1.3989	100.0	Pass
18	1.1913	1.1913	100.0	Pass
19	1.3131	1.3131	100.0	Pass
20	1.3332	1.3332	100.0	Pass
21	1.4677	1.4677	100.0	Pass
22	1.4330	1.4330	100.0	Pass
23	1.5403	1.5403	100.0	Pass
24	1.6715	1.6715	100.0	Pass
25	1.5475	1.5475	100.0	Pass
26	1.4237	1.4237	100.0	Pass
27	1.0057	1.0057	100.0	Pass
28	1.4001	1.4001	100.0	Pass
29	1.0394	1.0394	100.0	Pass
30	1.0183	1.0183	100.0	Pass
31	1.5915	1.5915	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #7
Total Pervious Area:0.492
Total Impervious Area:1.044

Mitigated Landuse Totals for POC #7
Total Pervious Area:0.492
Total Impervious Area:1.044

Flow Frequency Return Periods for Predeveloped. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.848082
5 year	1.02753
10 year	1.126021
25 year	1.233514
50 year	1.303861
100 year	1.367477

Flow Frequency Return Periods for Mitigated. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.848082
5 year	1.02753
10 year	1.126021
25 year	1.233514
50 year	1.303861
100 year	1.367477

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #7

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.937	0.937
1957	1.114	1.114
1958	0.832	0.832
1959	0.890	0.890
1960	0.932	0.932
1961	0.679	0.679
1962	1.227	1.227
1963	1.108	1.108
1964	0.928	0.928
1965	0.941	0.941
1966	0.944	0.944
1967	0.565	0.565
1968	0.889	0.889
1969	0.865	0.865
1970	0.757	0.757
1971	1.247	1.247
1972	1.069	1.069
1973	0.942	0.942
1974	0.948	0.948
1975	0.818	0.818
1976	1.010	1.010
1977	0.710	0.710
1978	1.244	1.244
1979	0.791	0.791
1980	0.715	0.715
1981	0.909	0.909
1982	1.047	1.047
1983	0.829	0.829
1984	0.793	0.793
1985	0.548	0.548
1986	0.946	0.946
1987	0.654	0.654
1988	1.010	1.010
1989	0.824	0.824

1990	1.121	1.121
1991	0.675	0.675
1992	0.528	0.528
1993	0.583	0.583
1994	0.796	0.796
1995	0.701	0.701
1996	0.869	0.869
1997	0.910	0.910
1998	0.556	0.556
1999	0.720	0.720
2000	0.659	0.659
2001	0.608	0.608
2002	0.884	0.884
2003	1.207	1.207
2004	1.101	1.101
2005	0.853	0.853
2006	0.879	0.879
2007	1.048	1.048
2008	0.507	0.507
2009	0.473	0.473

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	1.2467	1.2467
2	1.2438	1.2438
3	1.2265	1.2265
4	1.2069	1.2069
5	1.1209	1.1209
6	1.1137	1.1137
7	1.1078	1.1078
8	1.1013	1.1013
9	1.0686	1.0686
10	1.0481	1.0481
11	1.0474	1.0474
12	1.0101	1.0101
13	1.0097	1.0097
14	0.9481	0.9481
15	0.9459	0.9459
16	0.9443	0.9443
17	0.9415	0.9415
18	0.9415	0.9415
19	0.9372	0.9372
20	0.9316	0.9316
21	0.9277	0.9277
22	0.9100	0.9100
23	0.9090	0.9090
24	0.8897	0.8897
25	0.8887	0.8887
26	0.8844	0.8844
27	0.8788	0.8788
28	0.8693	0.8693
29	0.8646	0.8646
30	0.8534	0.8534
31	0.8320	0.8320
32	0.8292	0.8292

33	0.8239	0.8239
34	0.8179	0.8179
35	0.7960	0.7960
36	0.7932	0.7932
37	0.7909	0.7909
38	0.7566	0.7566
39	0.7196	0.7196
40	0.7149	0.7149
41	0.7100	0.7100
42	0.7012	0.7012
43	0.6793	0.6793
44	0.6749	0.6749
45	0.6593	0.6593
46	0.6538	0.6538
47	0.6081	0.6081
48	0.5832	0.5832
49	0.5652	0.5652
50	0.5558	0.5558
51	0.5479	0.5479
52	0.5280	0.5280
53	0.5072	0.5072
54	0.4732	0.4732

Stream Protection Duration

POC #7

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4240	930	930	100	Pass
0.4329	866	866	100	Pass
0.4418	797	797	100	Pass
0.4507	756	756	100	Pass
0.4596	698	698	100	Pass
0.4685	644	644	100	Pass
0.4774	591	591	100	Pass
0.4863	567	567	100	Pass
0.4951	523	523	100	Pass
0.5040	479	479	100	Pass
0.5129	454	454	100	Pass
0.5218	419	419	100	Pass
0.5307	393	393	100	Pass
0.5396	373	373	100	Pass
0.5485	346	346	100	Pass
0.5573	326	326	100	Pass
0.5662	300	300	100	Pass
0.5751	276	276	100	Pass
0.5840	260	260	100	Pass
0.5929	245	245	100	Pass
0.6018	224	224	100	Pass
0.6107	215	215	100	Pass
0.6196	209	209	100	Pass
0.6284	195	195	100	Pass
0.6373	185	185	100	Pass
0.6462	176	176	100	Pass

0.6551	166	166	100	Pass
0.6640	153	153	100	Pass
0.6729	148	148	100	Pass
0.6818	139	139	100	Pass
0.6907	135	135	100	Pass
0.6995	129	129	100	Pass
0.7084	123	123	100	Pass
0.7173	111	111	100	Pass
0.7262	106	106	100	Pass
0.7351	98	98	100	Pass
0.7440	96	96	100	Pass
0.7529	93	93	100	Pass
0.7617	89	89	100	Pass
0.7706	86	86	100	Pass
0.7795	81	81	100	Pass
0.7884	80	80	100	Pass
0.7973	72	72	100	Pass
0.8062	70	70	100	Pass
0.8151	67	67	100	Pass
0.8240	64	64	100	Pass
0.8328	58	58	100	Pass
0.8417	52	52	100	Pass
0.8506	51	51	100	Pass
0.8595	50	50	100	Pass
0.8684	48	48	100	Pass
0.8773	46	46	100	Pass
0.8862	43	43	100	Pass
0.8951	41	41	100	Pass
0.9039	40	40	100	Pass
0.9128	35	35	100	Pass
0.9217	35	35	100	Pass
0.9306	34	34	100	Pass
0.9395	31	31	100	Pass
0.9484	26	26	100	Pass
0.9573	24	24	100	Pass
0.9662	24	24	100	Pass
0.9750	24	24	100	Pass
0.9839	23	23	100	Pass
0.9928	21	21	100	Pass
1.0017	20	20	100	Pass
1.0106	18	18	100	Pass
1.0195	16	16	100	Pass
1.0284	15	15	100	Pass
1.0372	15	15	100	Pass
1.0461	14	14	100	Pass
1.0550	12	12	100	Pass
1.0639	11	11	100	Pass
1.0728	10	10	100	Pass
1.0817	10	10	100	Pass
1.0906	10	10	100	Pass
1.0995	10	10	100	Pass
1.1083	8	8	100	Pass
1.1172	7	7	100	Pass
1.1261	6	6	100	Pass
1.1350	6	6	100	Pass
1.1439	6	6	100	Pass
1.1528	5	5	100	Pass

1.1617	5	5	100	Pass
1.1706	5	5	100	Pass
1.1794	5	5	100	Pass
1.1883	4	4	100	Pass
1.1972	4	4	100	Pass
1.2061	4	4	100	Pass
1.2150	3	3	100	Pass
1.2239	3	3	100	Pass
1.2328	2	2	100	Pass
1.2417	2	2	100	Pass
1.2505	0	0	100	Pass
1.2594	0	0	0	Pass
1.2683	0	0	0	Pass
1.2772	0	0	0	Pass
1.2861	0	0	0	Pass
1.2950	0	0	0	Pass
1.3039	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #7
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 7
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	56.9457	56.9457	100.0	Pass
Feb	43.7084	43.7084	100.0	Pass
Mar	38.6191	38.6191	100.0	Pass
Apr	21.2491	21.2491	100.0	Pass
May	10.9660	10.9660	100.0	Pass
Jun	7.1429	7.1429	100.0	Pass
Jul	3.4629	3.4629	100.0	Pass
Aug	5.1240	5.1240	100.0	Pass
Sep	12.0399	12.0399	100.0	Pass
Oct	30.4300	30.4300	100.0	Pass
Nov	53.4426	53.4426	100.0	Pass
Dec	54.9437	54.9437	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.8210	1.8210	100.0	Pass
2	1.4572	1.4572	100.0	Pass
3	1.8158	1.8158	100.0	Pass
4	2.1070	2.1070	100.0	Pass
5	1.5859	1.5859	100.0	Pass
6	2.2971	2.2971	100.0	Pass
7	1.8390	1.8390	100.0	Pass
8	1.8328	1.8328	100.0	Pass
9	1.9322	1.9322	100.0	Pass
10	1.8990	1.8990	100.0	Pass
11	2.2973	2.2973	100.0	Pass

12	1.8472	1.8472	100.0	Pass
13	2.2759	2.2759	100.0	Pass
14	2.2861	2.2861	100.0	Pass
15	2.1011	2.1011	100.0	Pass
16	1.7585	1.7585	100.0	Pass
17	1.6741	1.6741	100.0	Pass
18	1.4794	1.4794	100.0	Pass
19	1.4578	1.4578	100.0	Pass
20	0.9911	0.9911	100.0	Pass
21	1.7534	1.7534	100.0	Pass
22	2.1655	2.1655	100.0	Pass
23	2.4447	2.4447	100.0	Pass
24	1.7310	1.7310	100.0	Pass
25	1.4694	1.4694	100.0	Pass
26	1.3257	1.3257	100.0	Pass
27	1.6179	1.6179	100.0	Pass
28	2.0442	2.0442	100.0	Pass
29	1.6084	1.6084	100.0	Pass
30	1.8616	1.8616	100.0	Pass
31	1.1737	1.1737	100.0	Pass
Feb1	1.2979	1.2979	100.0	Pass
2	1.1768	1.1768	100.0	Pass
3	1.0713	1.0713	100.0	Pass
4	0.9927	0.9927	100.0	Pass
5	1.7550	1.7550	100.0	Pass
6	0.9589	0.9589	100.0	Pass
7	1.3153	1.3153	100.0	Pass
8	1.0242	1.0242	100.0	Pass
9	1.1978	1.1978	100.0	Pass
10	1.5786	1.5786	100.0	Pass
11	2.0947	2.0947	100.0	Pass
12	1.6902	1.6902	100.0	Pass
13	1.7858	1.7858	100.0	Pass
14	2.4514	2.4514	100.0	Pass
15	1.8659	1.8659	100.0	Pass
16	2.3711	2.3711	100.0	Pass
17	2.1225	2.1225	100.0	Pass
18	1.7194	1.7194	100.0	Pass
19	1.4884	1.4884	100.0	Pass
20	1.4235	1.4235	100.0	Pass
21	1.1669	1.1669	100.0	Pass
22	1.6560	1.6560	100.0	Pass
23	1.5898	1.5898	100.0	Pass
24	1.7471	1.7471	100.0	Pass
25	1.5804	1.5804	100.0	Pass
26	1.5634	1.5634	100.0	Pass
27	1.3763	1.3763	100.0	Pass
28	1.7178	1.7178	100.0	Pass
29	1.3147	1.3147	100.0	Pass
Mar1	1.2874	1.2874	100.0	Pass
2	1.0661	1.0661	100.0	Pass
3	1.4600	1.4600	100.0	Pass
4	1.5372	1.5372	100.0	Pass
5	1.2275	1.2275	100.0	Pass
6	1.5379	1.5379	100.0	Pass
7	1.4967	1.4967	100.0	Pass
8	1.4672	1.4672	100.0	Pass

9	1.4715	1.4715	100.0	Pass
10	1.2969	1.2969	100.0	Pass
11	1.3939	1.3939	100.0	Pass
12	1.2377	1.2377	100.0	Pass
13	1.4846	1.4846	100.0	Pass
14	1.1991	1.1991	100.0	Pass
15	0.9805	0.9805	100.0	Pass
16	0.9338	0.9338	100.0	Pass
17	1.2515	1.2515	100.0	Pass
18	0.7908	0.7908	100.0	Pass
19	1.1382	1.1382	100.0	Pass
20	0.9320	0.9320	100.0	Pass
21	1.5262	1.5262	100.0	Pass
22	1.7209	1.7209	100.0	Pass
23	1.4647	1.4647	100.0	Pass
24	0.9745	0.9745	100.0	Pass
25	1.4189	1.4189	100.0	Pass
26	1.0666	1.0666	100.0	Pass
27	1.0039	1.0039	100.0	Pass
28	1.1250	1.1250	100.0	Pass
29	1.0294	1.0294	100.0	Pass
30	0.7862	0.7862	100.0	Pass
31	0.6330	0.6330	100.0	Pass
Apr1	0.6643	0.6643	100.0	Pass
2	0.7385	0.7385	100.0	Pass
3	0.9918	0.9918	100.0	Pass
4	0.9186	0.9186	100.0	Pass
5	0.9989	0.9989	100.0	Pass
6	0.5580	0.5580	100.0	Pass
7	0.8716	0.8716	100.0	Pass
8	0.8911	0.8911	100.0	Pass
9	0.7871	0.7871	100.0	Pass
10	0.7890	0.7890	100.0	Pass
11	1.0486	1.0486	100.0	Pass
12	0.9219	0.9219	100.0	Pass
13	0.9542	0.9542	100.0	Pass
14	0.8253	0.8253	100.0	Pass
15	0.8820	0.8820	100.0	Pass
16	0.5096	0.5096	100.0	Pass
17	0.6667	0.6667	100.0	Pass
18	0.7610	0.7610	100.0	Pass
19	0.4344	0.4344	100.0	Pass
20	0.4077	0.4077	100.0	Pass
21	0.6635	0.6635	100.0	Pass
22	0.5600	0.5600	100.0	Pass
23	0.4965	0.4965	100.0	Pass
24	0.4026	0.4026	100.0	Pass
25	0.4735	0.4735	100.0	Pass
26	0.7924	0.7924	100.0	Pass
27	0.6253	0.6253	100.0	Pass
28	0.6527	0.6527	100.0	Pass
29	0.3313	0.3313	100.0	Pass
30	0.4163	0.4163	100.0	Pass
May1	0.6321	0.6321	100.0	Pass
2	0.4734	0.4734	100.0	Pass
3	0.4982	0.4982	100.0	Pass
4	0.4002	0.4002	100.0	Pass

5	0.3818	0.3818	100.0	Pass
6	0.3217	0.3217	100.0	Pass
7	0.4208	0.4208	100.0	Pass
8	0.2650	0.2650	100.0	Pass
9	0.3599	0.3599	100.0	Pass
10	0.2898	0.2898	100.0	Pass
11	0.2713	0.2713	100.0	Pass
12	0.3858	0.3858	100.0	Pass
13	0.4146	0.4146	100.0	Pass
14	0.4055	0.4055	100.0	Pass
15	0.2803	0.2803	100.0	Pass
16	0.3522	0.3522	100.0	Pass
17	0.2923	0.2923	100.0	Pass
18	0.4616	0.4616	100.0	Pass
19	0.2516	0.2516	100.0	Pass
20	0.2400	0.2400	100.0	Pass
21	0.2453	0.2453	100.0	Pass
22	0.2971	0.2971	100.0	Pass
23	0.2646	0.2646	100.0	Pass
24	0.2782	0.2782	100.0	Pass
25	0.2344	0.2344	100.0	Pass
26	0.4000	0.4000	100.0	Pass
27	0.3182	0.3182	100.0	Pass
28	0.3419	0.3419	100.0	Pass
29	0.4663	0.4663	100.0	Pass
30	0.3070	0.3070	100.0	Pass
31	0.3341	0.3341	100.0	Pass
Jun1	0.2554	0.2554	100.0	Pass
2	0.4028	0.4028	100.0	Pass
3	0.3826	0.3826	100.0	Pass
4	0.2788	0.2788	100.0	Pass
5	0.4586	0.4586	100.0	Pass
6	0.1828	0.1828	100.0	Pass
7	0.2714	0.2714	100.0	Pass
8	0.3777	0.3777	100.0	Pass
9	0.2862	0.2862	100.0	Pass
10	0.2689	0.2689	100.0	Pass
11	0.1970	0.1970	100.0	Pass
12	0.2353	0.2353	100.0	Pass
13	0.3753	0.3753	100.0	Pass
14	0.1607	0.1607	100.0	Pass
15	0.3096	0.3096	100.0	Pass
16	0.1420	0.1420	100.0	Pass
17	0.1941	0.1941	100.0	Pass
18	0.1355	0.1355	100.0	Pass
19	0.1547	0.1547	100.0	Pass
20	0.1669	0.1669	100.0	Pass
21	0.1694	0.1694	100.0	Pass
22	0.0944	0.0944	100.0	Pass
23	0.4632	0.4632	100.0	Pass
24	0.1346	0.1346	100.0	Pass
25	0.2099	0.2099	100.0	Pass
26	0.1259	0.1259	100.0	Pass
27	0.1118	0.1118	100.0	Pass
28	0.1145	0.1145	100.0	Pass
29	0.1500	0.1500	100.0	Pass
30	0.3281	0.3281	100.0	Pass

Jul1	0.0863	0.0863	100.0	Pass
2	0.0717	0.0717	100.0	Pass
3	0.0765	0.0765	100.0	Pass
4	0.1824	0.1824	100.0	Pass
5	0.1374	0.1374	100.0	Pass
6	0.1045	0.1045	100.0	Pass
7	0.2045	0.2045	100.0	Pass
8	0.1193	0.1193	100.0	Pass
9	0.2419	0.2419	100.0	Pass
10	0.1603	0.1603	100.0	Pass
11	0.3297	0.3297	100.0	Pass
12	0.1785	0.1785	100.0	Pass
13	0.1291	0.1291	100.0	Pass
14	0.1902	0.1902	100.0	Pass
15	0.0781	0.0781	100.0	Pass
16	0.0491	0.0491	100.0	Pass
17	0.1612	0.1612	100.0	Pass
18	0.0578	0.0578	100.0	Pass
19	0.0680	0.0680	100.0	Pass
20	0.1161	0.1161	100.0	Pass
21	0.0944	0.0944	100.0	Pass
22	0.0107	0.0107	100.0	Pass
23	0.0271	0.0271	100.0	Pass
24	0.0303	0.0303	100.0	Pass
25	0.0663	0.0663	100.0	Pass
26	0.0274	0.0274	100.0	Pass
27	0.0414	0.0414	100.0	Pass
28	0.0344	0.0344	100.0	Pass
29	0.0223	0.0223	100.0	Pass
30	0.0382	0.0382	100.0	Pass
31	0.0443	0.0443	100.0	Pass
Aug1	0.1824	0.1824	100.0	Pass
2	0.0656	0.0656	100.0	Pass
3	0.0260	0.0260	100.0	Pass
4	0.0253	0.0253	100.0	Pass
5	0.2089	0.2089	100.0	Pass
6	0.1421	0.1421	100.0	Pass
7	0.0528	0.0528	100.0	Pass
8	0.0522	0.0522	100.0	Pass
9	0.0046	0.0046	100.0	Pass
10	0.0270	0.0270	100.0	Pass
11	0.1327	0.1327	100.0	Pass
12	0.1141	0.1141	100.0	Pass
13	0.1442	0.1442	100.0	Pass
14	0.0907	0.0907	100.0	Pass
15	0.0826	0.0826	100.0	Pass
16	0.0694	0.0694	100.0	Pass
17	0.1318	0.1318	100.0	Pass
18	0.2543	0.2543	100.0	Pass
19	0.0749	0.0749	100.0	Pass
20	0.1985	0.1985	100.0	Pass
21	0.1857	0.1857	100.0	Pass
22	0.3595	0.3595	100.0	Pass
23	0.3435	0.3435	100.0	Pass
24	0.3079	0.3079	100.0	Pass
25	0.1303	0.1303	100.0	Pass
26	0.3499	0.3499	100.0	Pass

27	0.3610	0.3610	100.0	Pass
28	0.3663	0.3663	100.0	Pass
29	0.2325	0.2325	100.0	Pass
30	0.3631	0.3631	100.0	Pass
31	0.5812	0.5812	100.0	Pass
Sep1	0.2429	0.2429	100.0	Pass
2	0.2399	0.2399	100.0	Pass
3	0.2542	0.2542	100.0	Pass
4	0.3133	0.3133	100.0	Pass
5	0.2702	0.2702	100.0	Pass
6	0.1875	0.1875	100.0	Pass
7	0.3526	0.3526	100.0	Pass
8	0.2308	0.2308	100.0	Pass
9	0.5716	0.5716	100.0	Pass
10	0.1448	0.1448	100.0	Pass
11	0.1184	0.1184	100.0	Pass
12	0.3022	0.3022	100.0	Pass
13	0.5702	0.5702	100.0	Pass
14	0.3740	0.3740	100.0	Pass
15	0.5571	0.5571	100.0	Pass
16	0.6052	0.6052	100.0	Pass
17	0.6508	0.6508	100.0	Pass
18	0.5880	0.5880	100.0	Pass
19	0.6353	0.6353	100.0	Pass
20	0.4768	0.4768	100.0	Pass
21	0.6506	0.6506	100.0	Pass
22	0.5254	0.5254	100.0	Pass
23	0.4132	0.4132	100.0	Pass
24	0.2968	0.2968	100.0	Pass
25	0.3068	0.3068	100.0	Pass
26	0.3097	0.3097	100.0	Pass
27	0.4248	0.4248	100.0	Pass
28	0.3667	0.3667	100.0	Pass
29	0.4804	0.4804	100.0	Pass
30	0.3571	0.3571	100.0	Pass
Oct1	0.2543	0.2543	100.0	Pass
2	0.6100	0.6100	100.0	Pass
3	0.5515	0.5515	100.0	Pass
4	0.6801	0.6801	100.0	Pass
5	0.7253	0.7253	100.0	Pass
6	0.7995	0.7995	100.0	Pass
7	1.0274	1.0274	100.0	Pass
8	0.8511	0.8511	100.0	Pass
9	0.6675	0.6675	100.0	Pass
10	0.5472	0.5472	100.0	Pass
11	0.9979	0.9979	100.0	Pass
12	0.6902	0.6902	100.0	Pass
13	0.9406	0.9406	100.0	Pass
14	0.5639	0.5639	100.0	Pass
15	0.6494	0.6494	100.0	Pass
16	0.8710	0.8710	100.0	Pass
17	0.8006	0.8006	100.0	Pass
18	1.2709	1.2709	100.0	Pass
19	1.5760	1.5760	100.0	Pass
20	1.3682	1.3682	100.0	Pass
21	1.6490	1.6490	100.0	Pass
22	1.0142	1.0142	100.0	Pass

	23	1.6066	1.6066	100.0	Pass
	24	1.4249	1.4249	100.0	Pass
	25	1.2830	1.2830	100.0	Pass
	26	1.5356	1.5356	100.0	Pass
	27	1.3271	1.3271	100.0	Pass
	28	1.2329	1.2329	100.0	Pass
	29	1.0523	1.0523	100.0	Pass
	30	1.5084	1.5084	100.0	Pass
	31	1.3017	1.3017	100.0	Pass
Nov	1	1.6264	1.6264	100.0	Pass
	2	1.9387	1.9387	100.0	Pass
	3	1.5598	1.5598	100.0	Pass
	4	1.5596	1.5596	100.0	Pass
	5	1.7214	1.7214	100.0	Pass
	6	1.4625	1.4625	100.0	Pass
	7	1.3237	1.3237	100.0	Pass
	8	1.6681	1.6681	100.0	Pass
	9	1.9747	1.9747	100.0	Pass
	10	1.7151	1.7151	100.0	Pass
	11	1.9055	1.9055	100.0	Pass
	12	1.7642	1.7642	100.0	Pass
	13	1.3610	1.3610	100.0	Pass
	14	1.5510	1.5510	100.0	Pass
	15	1.7364	1.7364	100.0	Pass
	16	1.8115	1.8115	100.0	Pass
	17	1.6722	1.6722	100.0	Pass
	18	2.4200	2.4200	100.0	Pass
	19	2.1985	2.1985	100.0	Pass
	20	1.4980	1.4980	100.0	Pass
	21	2.2683	2.2683	100.0	Pass
	22	2.6562	2.6562	100.0	Pass
	23	2.0873	2.0873	100.0	Pass
	24	2.3583	2.3583	100.0	Pass
	25	1.6097	1.6097	100.0	Pass
	26	1.3073	1.3073	100.0	Pass
	27	1.5355	1.5355	100.0	Pass
	28	1.4676	1.4676	100.0	Pass
	29	2.3857	2.3857	100.0	Pass
	30	1.9573	1.9573	100.0	Pass
Dec	1	2.1408	2.1408	100.0	Pass
	2	2.0921	2.0921	100.0	Pass
	3	1.3782	1.3782	100.0	Pass
	4	1.4898	1.4898	100.0	Pass
	5	1.2951	1.2951	100.0	Pass
	6	1.1144	1.1144	100.0	Pass
	7	1.5649	1.5649	100.0	Pass
	8	1.9633	1.9633	100.0	Pass
	9	1.9740	1.9740	100.0	Pass
	10	2.1367	2.1367	100.0	Pass
	11	1.5847	1.5847	100.0	Pass
	12	1.6947	1.6947	100.0	Pass
	13	2.4674	2.4674	100.0	Pass
	14	1.7805	1.7805	100.0	Pass
	15	2.2622	2.2622	100.0	Pass
	16	1.5802	1.5802	100.0	Pass
	17	1.8362	1.8362	100.0	Pass
	18	1.5268	1.5268	100.0	Pass

19	1.7570	1.7570	100.0	Pass
20	1.7412	1.7412	100.0	Pass
21	1.9167	1.9167	100.0	Pass
22	1.8815	1.8815	100.0	Pass
23	2.0371	2.0371	100.0	Pass
24	2.2420	2.2420	100.0	Pass
25	1.9860	1.9860	100.0	Pass
26	1.8159	1.8159	100.0	Pass
27	1.2403	1.2403	100.0	Pass
28	1.8816	1.8816	100.0	Pass
29	1.2898	1.2898	100.0	Pass
30	1.3183	1.3183	100.0	Pass
31	2.1718	2.1718	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #8

Total Pervious Area:2.112
Total Impervious Area:0.345

Mitigated Landuse Totals for POC #8

Total Pervious Area:2.112
Total Impervious Area:0.345

Flow Frequency Return Periods for Predeveloped. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.935904
5 year	1.246456
10 year	1.424095
25 year	1.621977
50 year	1.75304
100 year	1.872227

Flow Frequency Return Periods for Mitigated. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.935904
5 year	1.246456
10 year	1.424095
25 year	1.621977
50 year	1.75304
100 year	1.872227

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #8

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.221	1.221
1957	1.266	1.266
1958	0.833	0.833
1959	1.107	1.107

1960	1.199	1.199
1961	0.790	0.790
1962	1.597	1.597
1963	1.388	1.388
1964	0.996	0.996
1965	1.112	1.112
1966	1.206	1.206
1967	0.557	0.557
1968	1.056	1.056
1969	1.116	1.116
1970	0.691	0.691
1971	1.578	1.578
1972	1.425	1.425
1973	1.041	1.041
1974	1.225	1.225
1975	0.942	0.942
1976	1.219	1.219
1977	0.750	0.750
1978	1.407	1.407
1979	0.924	0.924
1980	0.817	0.817
1981	0.980	0.980
1982	1.114	1.114
1983	0.902	0.902
1984	0.935	0.935
1985	0.426	0.426
1986	1.100	1.100
1987	0.722	0.722
1988	1.184	1.184
1989	0.890	0.890
1990	1.424	1.424
1991	0.780	0.780
1992	0.545	0.545
1993	0.486	0.486
1994	0.867	0.867
1995	0.497	0.497
1996	0.596	0.596
1997	0.936	0.936
1998	0.493	0.493
1999	0.776	0.776
2000	0.714	0.714
2001	0.493	0.493
2002	0.750	0.750
2003	1.588	1.588
2004	1.350	1.350
2005	0.968	0.968
2006	1.046	1.046
2007	1.313	1.313
2008	0.439	0.439
2009	0.381	0.381

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	1.5970	1.5970
2	1.5876	1.5876

3	1.5778	1.5778
4	1.4254	1.4254
5	1.4242	1.4242
6	1.4072	1.4072
7	1.3875	1.3875
8	1.3499	1.3499
9	1.3132	1.3132
10	1.2660	1.2660
11	1.2254	1.2254
12	1.2211	1.2211
13	1.2190	1.2190
14	1.2060	1.2060
15	1.1989	1.1989
16	1.1843	1.1843
17	1.1160	1.1160
18	1.1140	1.1140
19	1.1122	1.1122
20	1.1071	1.1071
21	1.1002	1.1002
22	1.0556	1.0556
23	1.0455	1.0455
24	1.0410	1.0410
25	0.9965	0.9965
26	0.9803	0.9803
27	0.9678	0.9678
28	0.9415	0.9415
29	0.9362	0.9362
30	0.9350	0.9350
31	0.9243	0.9243
32	0.9017	0.9017
33	0.8896	0.8896
34	0.8665	0.8665
35	0.8334	0.8334
36	0.8168	0.8168
37	0.7903	0.7903
38	0.7803	0.7803
39	0.7761	0.7761
40	0.7500	0.7500
41	0.7496	0.7496
42	0.7222	0.7222
43	0.7141	0.7141
44	0.6910	0.6910
45	0.5955	0.5955
46	0.5573	0.5573
47	0.5445	0.5445
48	0.4968	0.4968
49	0.4934	0.4934
50	0.4926	0.4926
51	0.4857	0.4857
52	0.4387	0.4387
53	0.4263	0.4263
54	0.3813	0.3813

Stream Protection Duration
POC #8
The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4680	548	548	100	Pass
0.4809	509	509	100	Pass
0.4939	474	474	100	Pass
0.5069	440	440	100	Pass
0.5199	412	412	100	Pass
0.5329	380	380	100	Pass
0.5458	351	351	100	Pass
0.5588	327	327	100	Pass
0.5718	309	309	100	Pass
0.5848	290	290	100	Pass
0.5978	269	269	100	Pass
0.6107	253	253	100	Pass
0.6237	242	242	100	Pass
0.6367	224	224	100	Pass
0.6497	207	207	100	Pass
0.6627	196	196	100	Pass
0.6756	186	186	100	Pass
0.6886	174	174	100	Pass
0.7016	165	165	100	Pass
0.7146	156	156	100	Pass
0.7276	147	147	100	Pass
0.7405	139	139	100	Pass
0.7535	130	130	100	Pass
0.7665	121	121	100	Pass
0.7795	118	118	100	Pass
0.7925	112	112	100	Pass
0.8054	110	110	100	Pass
0.8184	105	105	100	Pass
0.8314	99	99	100	Pass
0.8444	93	93	100	Pass
0.8574	86	86	100	Pass
0.8704	81	81	100	Pass
0.8833	79	79	100	Pass
0.8963	75	75	100	Pass
0.9093	73	73	100	Pass
0.9223	70	70	100	Pass
0.9353	68	68	100	Pass
0.9482	62	62	100	Pass
0.9612	57	57	100	Pass
0.9742	56	56	100	Pass
0.9872	54	54	100	Pass
1.0002	51	51	100	Pass
1.0131	50	50	100	Pass
1.0261	46	46	100	Pass
1.0391	46	46	100	Pass
1.0521	43	43	100	Pass
1.0651	41	41	100	Pass
1.0780	39	39	100	Pass
1.0910	38	38	100	Pass
1.1040	37	37	100	Pass
1.1170	32	32	100	Pass
1.1300	30	30	100	Pass
1.1429	26	26	100	Pass

1.1559	26	26	100	Pass
1.1689	26	26	100	Pass
1.1819	26	26	100	Pass
1.1949	23	23	100	Pass
1.2079	21	21	100	Pass
1.2208	20	20	100	Pass
1.2338	17	17	100	Pass
1.2468	14	14	100	Pass
1.2598	14	14	100	Pass
1.2728	13	13	100	Pass
1.2857	12	12	100	Pass
1.2987	11	11	100	Pass
1.3117	11	11	100	Pass
1.3247	10	10	100	Pass
1.3377	10	10	100	Pass
1.3506	9	9	100	Pass
1.3636	9	9	100	Pass
1.3766	9	9	100	Pass
1.3896	8	8	100	Pass
1.4026	8	8	100	Pass
1.4155	7	7	100	Pass
1.4285	5	5	100	Pass
1.4415	5	5	100	Pass
1.4545	5	5	100	Pass
1.4675	5	5	100	Pass
1.4804	5	5	100	Pass
1.4934	5	5	100	Pass
1.5064	5	5	100	Pass
1.5194	5	5	100	Pass
1.5324	3	3	100	Pass
1.5453	3	3	100	Pass
1.5583	3	3	100	Pass
1.5713	3	3	100	Pass
1.5843	2	2	100	Pass
1.5973	1	1	100	Pass
1.6103	0	0	100	Pass
1.6232	0	0	0	Pass
1.6362	0	0	0	Pass
1.6492	0	0	0	Pass
1.6622	0	0	0	Pass
1.6752	0	0	0	Pass
1.6881	0	0	0	Pass
1.7011	0	0	0	Pass
1.7141	0	0	0	Pass
1.7271	0	0	0	Pass
1.7401	0	0	0	Pass
1.7530	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #8
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 8

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	79.4574	79.4574	100.0	Pass
Feb	61.8317	61.8317	100.0	Pass
Mar	54.0959	54.0959	100.0	Pass
Apr	28.1979	28.1979	100.0	Pass
May	12.0309	12.0309	100.0	Pass
Jun	7.0143	7.0143	100.0	Pass
Jul	2.9414	2.9414	100.0	Pass
Aug	3.8936	3.8936	100.0	Pass
Sep	11.4480	11.4480	100.0	Pass
Oct	34.5435	34.5435	100.0	Pass
Nov	70.7751	70.7751	100.0	Pass
Dec	76.6890	76.6890	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	2.5015	2.5015	100.0	Pass
2	2.1873	2.1873	100.0	Pass
3	2.4247	2.4247	100.0	Pass
4	2.6252	2.6252	100.0	Pass
5	2.3846	2.3846	100.0	Pass
6	2.8193	2.8193	100.0	Pass
7	2.7158	2.7158	100.0	Pass
8	2.5986	2.5986	100.0	Pass
9	2.5632	2.5632	100.0	Pass
10	2.6898	2.6898	100.0	Pass
11	3.0518	3.0518	100.0	Pass
12	2.7746	2.7746	100.0	Pass
13	3.0430	3.0430	100.0	Pass
14	3.1728	3.1728	100.0	Pass
15	3.0312	3.0312	100.0	Pass
16	2.7981	2.7981	100.0	Pass
17	2.5826	2.5826	100.0	Pass
18	2.2949	2.2949	100.0	Pass
19	2.1167	2.1167	100.0	Pass
20	1.6886	1.6886	100.0	Pass
21	1.9330	1.9330	100.0	Pass
22	2.7148	2.7148	100.0	Pass
23	3.2246	3.2246	100.0	Pass
24	2.7453	2.7453	100.0	Pass
25	2.3496	2.3496	100.0	Pass
26	2.1110	2.1110	100.0	Pass
27	2.1672	2.1672	100.0	Pass
28	2.6248	2.6248	100.0	Pass
29	2.4048	2.4048	100.0	Pass
30	2.4919	2.4919	100.0	Pass
31	1.9829	1.9829	100.0	Pass
Feb1	1.9114	1.9114	100.0	Pass
2	1.6716	1.6716	100.0	Pass
3	1.5812	1.5812	100.0	Pass
4	1.4672	1.4672	100.0	Pass
5	2.0488	2.0488	100.0	Pass
6	1.6577	1.6577	100.0	Pass
7	1.7183	1.7183	100.0	Pass

8	1.5250	1.5250	100.0	Pass
9	1.5236	1.5236	100.0	Pass
10	1.8888	1.8888	100.0	Pass
11	2.6176	2.6176	100.0	Pass
12	2.5004	2.5004	100.0	Pass
13	2.4224	2.4224	100.0	Pass
14	2.9646	2.9646	100.0	Pass
15	2.8655	2.8655	100.0	Pass
16	3.1064	3.1064	100.0	Pass
17	3.0488	3.0488	100.0	Pass
18	2.8050	2.8050	100.0	Pass
19	2.3723	2.3723	100.0	Pass
20	2.1893	2.1893	100.0	Pass
21	1.8011	1.8011	100.0	Pass
22	2.1718	2.1718	100.0	Pass
23	2.1990	2.1990	100.0	Pass
24	2.3859	2.3859	100.0	Pass
25	2.3023	2.3023	100.0	Pass
26	2.3229	2.3229	100.0	Pass
27	2.1006	2.1006	100.0	Pass
28	2.4593	2.4593	100.0	Pass
29	1.9296	1.9296	100.0	Pass
Mar1	1.8340	1.8340	100.0	Pass
2	1.6273	1.6273	100.0	Pass
3	1.8732	1.8732	100.0	Pass
4	2.0440	2.0440	100.0	Pass
5	1.7784	1.7784	100.0	Pass
6	2.1209	2.1209	100.0	Pass
7	1.9738	1.9738	100.0	Pass
8	2.0447	2.0447	100.0	Pass
9	2.0528	2.0528	100.0	Pass
10	1.9223	1.9223	100.0	Pass
11	1.9593	1.9593	100.0	Pass
12	1.7756	1.7756	100.0	Pass
13	1.9958	1.9958	100.0	Pass
14	1.7890	1.7890	100.0	Pass
15	1.5102	1.5102	100.0	Pass
16	1.3475	1.3475	100.0	Pass
17	1.6720	1.6720	100.0	Pass
18	1.2686	1.2686	100.0	Pass
19	1.4385	1.4385	100.0	Pass
20	1.3059	1.3059	100.0	Pass
21	1.7774	1.7774	100.0	Pass
22	2.0896	2.0896	100.0	Pass
23	2.1181	2.1181	100.0	Pass
24	1.6936	1.6936	100.0	Pass
25	1.8319	1.8319	100.0	Pass
26	1.6515	1.6515	100.0	Pass
27	1.4150	1.4150	100.0	Pass
28	1.5823	1.5823	100.0	Pass
29	1.4409	1.4409	100.0	Pass
30	1.2350	1.2350	100.0	Pass
31	0.9937	0.9937	100.0	Pass
Apr1	0.9326	0.9326	100.0	Pass
2	0.9620	0.9620	100.0	Pass
3	1.1086	1.1086	100.0	Pass
4	1.1941	1.1941	100.0	Pass

5	1.3786	1.3786	100.0	Pass
6	0.9565	0.9565	100.0	Pass
7	1.0461	1.0461	100.0	Pass
8	1.1757	1.1757	100.0	Pass
9	1.0210	1.0210	100.0	Pass
10	1.1004	1.1004	100.0	Pass
11	1.1703	1.1703	100.0	Pass
12	1.2359	1.2359	100.0	Pass
13	1.2098	1.2098	100.0	Pass
14	1.1603	1.1603	100.0	Pass
15	1.2137	1.2137	100.0	Pass
16	0.8898	0.8898	100.0	Pass
17	0.8562	0.8562	100.0	Pass
18	0.9262	0.9262	100.0	Pass
19	0.7416	0.7416	100.0	Pass
20	0.5834	0.5834	100.0	Pass
21	0.7191	0.7191	100.0	Pass
22	0.6804	0.6804	100.0	Pass
23	0.6667	0.6667	100.0	Pass
24	0.5629	0.5629	100.0	Pass
25	0.5498	0.5498	100.0	Pass
26	0.8987	0.8987	100.0	Pass
27	0.8272	0.8272	100.0	Pass
28	0.8559	0.8559	100.0	Pass
29	0.5839	0.5839	100.0	Pass
30	0.5046	0.5046	100.0	Pass
May1	0.6267	0.6267	100.0	Pass
2	0.6205	0.6205	100.0	Pass
3	0.5740	0.5740	100.0	Pass
4	0.5353	0.5353	100.0	Pass
5	0.4760	0.4760	100.0	Pass
6	0.3965	0.3965	100.0	Pass
7	0.4516	0.4516	100.0	Pass
8	0.3658	0.3658	100.0	Pass
9	0.3761	0.3761	100.0	Pass
10	0.3236	0.3236	100.0	Pass
11	0.2917	0.2917	100.0	Pass
12	0.3883	0.3883	100.0	Pass
13	0.4162	0.4162	100.0	Pass
14	0.4070	0.4070	100.0	Pass
15	0.3869	0.3869	100.0	Pass
16	0.3558	0.3558	100.0	Pass
17	0.3424	0.3424	100.0	Pass
18	0.3951	0.3951	100.0	Pass
19	0.3220	0.3220	100.0	Pass
20	0.2519	0.2519	100.0	Pass
21	0.2577	0.2577	100.0	Pass
22	0.2611	0.2611	100.0	Pass
23	0.2754	0.2754	100.0	Pass
24	0.2917	0.2917	100.0	Pass
25	0.2672	0.2672	100.0	Pass
26	0.3596	0.3596	100.0	Pass
27	0.3437	0.3437	100.0	Pass
28	0.3401	0.3401	100.0	Pass
29	0.4583	0.4583	100.0	Pass
30	0.3696	0.3696	100.0	Pass
31	0.3899	0.3899	100.0	Pass

Jun1	0.3491	0.3491	100.0	Pass
2	0.3437	0.3437	100.0	Pass
3	0.3452	0.3452	100.0	Pass
4	0.3064	0.3064	100.0	Pass
5	0.3966	0.3966	100.0	Pass
6	0.2798	0.2798	100.0	Pass
7	0.3019	0.3019	100.0	Pass
8	0.3626	0.3626	100.0	Pass
9	0.3071	0.3071	100.0	Pass
10	0.2565	0.2565	100.0	Pass
11	0.2147	0.2147	100.0	Pass
12	0.1998	0.1998	100.0	Pass
13	0.3076	0.3076	100.0	Pass
14	0.2167	0.2167	100.0	Pass
15	0.2782	0.2782	100.0	Pass
16	0.2030	0.2030	100.0	Pass
17	0.1964	0.1964	100.0	Pass
18	0.1850	0.1850	100.0	Pass
19	0.1383	0.1383	100.0	Pass
20	0.1271	0.1271	100.0	Pass
21	0.1521	0.1521	100.0	Pass
22	0.1124	0.1124	100.0	Pass
23	0.2734	0.2734	100.0	Pass
24	0.2128	0.2128	100.0	Pass
25	0.1842	0.1842	100.0	Pass
26	0.1198	0.1198	100.0	Pass
27	0.0856	0.0856	100.0	Pass
28	0.0794	0.0794	100.0	Pass
29	0.0899	0.0899	100.0	Pass
30	0.2187	0.2187	100.0	Pass
Jul1	0.1178	0.1178	100.0	Pass
2	0.0727	0.0727	100.0	Pass
3	0.0553	0.0553	100.0	Pass
4	0.0799	0.0799	100.0	Pass
5	0.0745	0.0745	100.0	Pass
6	0.0608	0.0608	100.0	Pass
7	0.1350	0.1350	100.0	Pass
8	0.1270	0.1270	100.0	Pass
9	0.1595	0.1595	100.0	Pass
10	0.1415	0.1415	100.0	Pass
11	0.2963	0.2963	100.0	Pass
12	0.2903	0.2903	100.0	Pass
13	0.1839	0.1839	100.0	Pass
14	0.1669	0.1669	100.0	Pass
15	0.0967	0.0967	100.0	Pass
16	0.0577	0.0577	100.0	Pass
17	0.1148	0.1148	100.0	Pass
18	0.0859	0.0859	100.0	Pass
19	0.0659	0.0659	100.0	Pass
20	0.0726	0.0726	100.0	Pass
21	0.0843	0.0843	100.0	Pass
22	0.0364	0.0364	100.0	Pass
23	0.0257	0.0257	100.0	Pass
24	0.0189	0.0189	100.0	Pass
25	0.0274	0.0274	100.0	Pass
26	0.0125	0.0125	100.0	Pass
27	0.0164	0.0164	100.0	Pass

28	0.0163	0.0163	100.0	Pass
29	0.0137	0.0137	100.0	Pass
30	0.0165	0.0165	100.0	Pass
31	0.0189	0.0189	100.0	Pass
Aug1	0.0789	0.0789	100.0	Pass
2	0.0585	0.0585	100.0	Pass
3	0.0375	0.0375	100.0	Pass
4	0.0261	0.0261	100.0	Pass
5	0.1087	0.1087	100.0	Pass
6	0.1034	0.1034	100.0	Pass
7	0.0591	0.0591	100.0	Pass
8	0.0400	0.0400	100.0	Pass
9	0.0129	0.0129	100.0	Pass
10	0.0168	0.0168	100.0	Pass
11	0.0560	0.0560	100.0	Pass
12	0.0563	0.0563	100.0	Pass
13	0.0758	0.0758	100.0	Pass
14	0.0739	0.0739	100.0	Pass
15	0.0816	0.0816	100.0	Pass
16	0.0557	0.0557	100.0	Pass
17	0.0626	0.0626	100.0	Pass
18	0.1149	0.1149	100.0	Pass
19	0.0844	0.0844	100.0	Pass
20	0.1041	0.1041	100.0	Pass
21	0.1291	0.1291	100.0	Pass
22	0.2244	0.2244	100.0	Pass
23	0.2766	0.2766	100.0	Pass
24	0.3512	0.3512	100.0	Pass
25	0.2104	0.2104	100.0	Pass
26	0.2441	0.2441	100.0	Pass
27	0.2953	0.2953	100.0	Pass
28	0.3432	0.3432	100.0	Pass
29	0.2405	0.2405	100.0	Pass
30	0.2531	0.2531	100.0	Pass
31	0.4482	0.4482	100.0	Pass
Sep1	0.3647	0.3647	100.0	Pass
2	0.2833	0.2833	100.0	Pass
3	0.2518	0.2518	100.0	Pass
4	0.2538	0.2538	100.0	Pass
5	0.2391	0.2391	100.0	Pass
6	0.1905	0.1905	100.0	Pass
7	0.2261	0.2261	100.0	Pass
8	0.2155	0.2155	100.0	Pass
9	0.3527	0.3527	100.0	Pass
10	0.1935	0.1935	100.0	Pass
11	0.1237	0.1237	100.0	Pass
12	0.1910	0.1910	100.0	Pass
13	0.3832	0.3832	100.0	Pass
14	0.3586	0.3586	100.0	Pass
15	0.4451	0.4451	100.0	Pass
16	0.6098	0.6098	100.0	Pass
17	0.5813	0.5813	100.0	Pass
18	0.5451	0.5451	100.0	Pass
19	0.6469	0.6469	100.0	Pass
20	0.6029	0.6029	100.0	Pass
21	0.7371	0.7371	100.0	Pass
22	0.6287	0.6287	100.0	Pass

23	0.4856	0.4856	100.0	Pass
24	0.3520	0.3520	100.0	Pass
25	0.2906	0.2906	100.0	Pass
26	0.2916	0.2916	100.0	Pass
27	0.4194	0.4194	100.0	Pass
28	0.3413	0.3413	100.0	Pass
29	0.3967	0.3967	100.0	Pass
30	0.3857	0.3857	100.0	Pass
Oct1	0.3109	0.3109	100.0	Pass
2	0.4282	0.4282	100.0	Pass
3	0.4540	0.4540	100.0	Pass
4	0.6113	0.6113	100.0	Pass
5	0.6771	0.6771	100.0	Pass
6	0.7248	0.7248	100.0	Pass
7	0.9687	0.9687	100.0	Pass
8	0.9403	0.9403	100.0	Pass
9	0.7998	0.7998	100.0	Pass
10	0.6731	0.6731	100.0	Pass
11	0.8657	0.8657	100.0	Pass
12	0.7821	0.7821	100.0	Pass
13	0.8620	0.8620	100.0	Pass
14	0.7669	0.7669	100.0	Pass
15	0.7357	0.7357	100.0	Pass
16	0.9394	0.9394	100.0	Pass
17	0.9084	0.9084	100.0	Pass
18	1.3265	1.3265	100.0	Pass
19	1.7369	1.7369	100.0	Pass
20	1.5795	1.5795	100.0	Pass
21	1.8682	1.8682	100.0	Pass
22	1.5266	1.5266	100.0	Pass
23	1.8352	1.8352	100.0	Pass
24	1.7670	1.7670	100.0	Pass
25	1.6634	1.6634	100.0	Pass
26	1.8255	1.8255	100.0	Pass
27	1.7746	1.7746	100.0	Pass
28	1.6295	1.6295	100.0	Pass
29	1.4786	1.4786	100.0	Pass
30	1.7015	1.7015	100.0	Pass
31	1.7241	1.7241	100.0	Pass
Nov1	2.0183	2.0183	100.0	Pass
2	2.1622	2.1622	100.0	Pass
3	2.2039	2.2039	100.0	Pass
4	2.0127	2.0127	100.0	Pass
5	2.1980	2.1980	100.0	Pass
6	2.0755	2.0755	100.0	Pass
7	1.8628	1.8628	100.0	Pass
8	1.9953	1.9953	100.0	Pass
9	2.3965	2.3965	100.0	Pass
10	2.2902	2.2902	100.0	Pass
11	2.4372	2.4372	100.0	Pass
12	2.2741	2.2741	100.0	Pass
13	2.1051	2.1051	100.0	Pass
14	2.0325	2.0325	100.0	Pass
15	2.2155	2.2155	100.0	Pass
16	2.2950	2.2950	100.0	Pass
17	2.2634	2.2634	100.0	Pass
18	2.9235	2.9235	100.0	Pass

19	2.9693	2.9693	100.0	Pass
20	2.4010	2.4010	100.0	Pass
21	2.8786	2.8786	100.0	Pass
22	3.1564	3.1564	100.0	Pass
23	3.0562	3.0562	100.0	Pass
24	3.1870	3.1870	100.0	Pass
25	2.6522	2.6522	100.0	Pass
26	2.1498	2.1498	100.0	Pass
27	2.0610	2.0610	100.0	Pass
28	1.9939	1.9939	100.0	Pass
29	2.7873	2.7873	100.0	Pass
30	2.7696	2.7696	100.0	Pass
Dec1	2.8464	2.8464	100.0	Pass
2	2.9503	2.9503	100.0	Pass
3	2.2733	2.2733	100.0	Pass
4	2.1144	2.1144	100.0	Pass
5	1.9821	1.9821	100.0	Pass
6	1.6261	1.6261	100.0	Pass
7	1.9104	1.9104	100.0	Pass
8	2.3728	2.3728	100.0	Pass
9	2.6278	2.6278	100.0	Pass
10	2.9025	2.9025	100.0	Pass
11	2.3857	2.3857	100.0	Pass
12	2.3574	2.3574	100.0	Pass
13	2.9408	2.9408	100.0	Pass
14	2.7596	2.7596	100.0	Pass
15	2.9114	2.9114	100.0	Pass
16	2.5479	2.5479	100.0	Pass
17	2.5227	2.5227	100.0	Pass
18	2.2552	2.2552	100.0	Pass
19	2.2717	2.2717	100.0	Pass
20	2.4300	2.4300	100.0	Pass
21	2.6756	2.6756	100.0	Pass
22	2.5834	2.5834	100.0	Pass
23	2.7336	2.7336	100.0	Pass
24	2.8758	2.8758	100.0	Pass
25	2.9219	2.9219	100.0	Pass
26	2.7205	2.7205	100.0	Pass
27	2.0450	2.0450	100.0	Pass
28	2.3981	2.3981	100.0	Pass
29	2.0905	2.0905	100.0	Pass
30	1.8893	1.8893	100.0	Pass
31	2.6305	2.6305	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #9
Total Pervious Area:1.261
Total Impervious Area:0

Mitigated Landuse Totals for POC #9

Total Pervious Area:1.261

Total Impervious Area:0

Flow Frequency Return Periods for Predeveloped. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.42575
5 year	0.591756
10 year	0.686892
25 year	0.792114
50 year	0.861044
100 year	0.923019

Flow Frequency Return Periods for Mitigated. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.42575
5 year	0.591756
10 year	0.686892
25 year	0.792114
50 year	0.861044
100 year	0.923019

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #9

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.590	0.590
1957	0.581	0.581
1958	0.361	0.361
1959	0.526	0.526
1960	0.576	0.576
1961	0.374	0.374
1962	0.771	0.771
1963	0.661	0.661
1964	0.446	0.446
1965	0.525	0.525
1966	0.578	0.578
1967	0.244	0.244
1968	0.493	0.493
1969	0.537	0.537
1970	0.285	0.285
1971	0.754	0.754
1972	0.694	0.694
1973	0.472	0.472
1974	0.590	0.590
1975	0.434	0.434
1976	0.573	0.573
1977	0.333	0.333
1978	0.644	0.644
1979	0.429	0.429
1980	0.376	0.376
1981	0.440	0.440
1982	0.497	0.497
1983	0.406	0.406
1984	0.435	0.435
1985	0.162	0.162
1986	0.509	0.509

1987	0.327	0.327
1988	0.550	0.550
1989	0.399	0.399
1990	0.682	0.682
1991	0.360	0.360
1992	0.242	0.242
1993	0.190	0.190
1994	0.390	0.390
1995	0.193	0.193
1996	0.199	0.199
1997	0.411	0.411
1998	0.201	0.201
1999	0.352	0.352
2000	0.321	0.321
2001	0.189	0.189
2002	0.334	0.334
2003	0.769	0.769
2004	0.638	0.638
2005	0.444	0.444
2006	0.488	0.488
2007	0.625	0.625
2008	0.175	0.175
2009	0.154	0.154

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #9

Rank	Predeveloped	Mitigated
1	0.7709	0.7709
2	0.7690	0.7690
3	0.7541	0.7541
4	0.6936	0.6936
5	0.6816	0.6816
6	0.6607	0.6607
7	0.6444	0.6444
8	0.6378	0.6378
9	0.6254	0.6254
10	0.5900	0.5900
11	0.5895	0.5895
12	0.5809	0.5809
13	0.5782	0.5782
14	0.5763	0.5763
15	0.5726	0.5726
16	0.5502	0.5502
17	0.5371	0.5371
18	0.5260	0.5260
19	0.5247	0.5247
20	0.5095	0.5095
21	0.4967	0.4967
22	0.4928	0.4928
23	0.4884	0.4884
24	0.4721	0.4721
25	0.4463	0.4463
26	0.4436	0.4436
27	0.4398	0.4398
28	0.4353	0.4353
29	0.4342	0.4342

30	0.4288	0.4288
31	0.4110	0.4110
32	0.4060	0.4060
33	0.3993	0.3993
34	0.3904	0.3904
35	0.3763	0.3763
36	0.3742	0.3742
37	0.3613	0.3613
38	0.3605	0.3605
39	0.3516	0.3516
40	0.3343	0.3343
41	0.3333	0.3333
42	0.3274	0.3274
43	0.3210	0.3210
44	0.2852	0.2852
45	0.2443	0.2443
46	0.2424	0.2424
47	0.2008	0.2008
48	0.1994	0.1994
49	0.1927	0.1927
50	0.1895	0.1895
51	0.1887	0.1887
52	0.1754	0.1754
53	0.1617	0.1617
54	0.1537	0.1537

Stream Protection Duration

POC #9

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2129	478	478	100	Pass
0.2194	448	448	100	Pass
0.2260	418	418	100	Pass
0.2325	386	386	100	Pass
0.2391	360	360	100	Pass
0.2456	337	337	100	Pass
0.2522	312	312	100	Pass
0.2587	287	287	100	Pass
0.2653	272	272	100	Pass
0.2718	257	257	100	Pass
0.2783	241	241	100	Pass
0.2849	226	226	100	Pass
0.2914	204	204	100	Pass
0.2980	191	191	100	Pass
0.3045	185	185	100	Pass
0.3111	173	173	100	Pass
0.3176	168	168	100	Pass
0.3242	159	159	100	Pass
0.3307	153	153	100	Pass
0.3373	139	139	100	Pass
0.3438	132	132	100	Pass
0.3504	124	124	100	Pass
0.3569	118	118	100	Pass

0.3635	111	111	100	Pass
0.3700	105	105	100	Pass
0.3766	101	101	100	Pass
0.3831	95	95	100	Pass
0.3896	92	92	100	Pass
0.3962	85	85	100	Pass
0.4027	79	79	100	Pass
0.4093	77	77	100	Pass
0.4158	75	75	100	Pass
0.4224	74	74	100	Pass
0.4289	72	72	100	Pass
0.4355	68	68	100	Pass
0.4420	60	60	100	Pass
0.4486	57	57	100	Pass
0.4551	57	57	100	Pass
0.4617	53	53	100	Pass
0.4682	50	50	100	Pass
0.4748	47	47	100	Pass
0.4813	46	46	100	Pass
0.4879	44	44	100	Pass
0.4944	42	42	100	Pass
0.5010	40	40	100	Pass
0.5075	40	40	100	Pass
0.5140	37	37	100	Pass
0.5206	35	35	100	Pass
0.5271	32	32	100	Pass
0.5337	30	30	100	Pass
0.5402	28	28	100	Pass
0.5468	26	26	100	Pass
0.5533	24	24	100	Pass
0.5599	24	24	100	Pass
0.5664	24	24	100	Pass
0.5730	23	23	100	Pass
0.5795	20	20	100	Pass
0.5861	17	17	100	Pass
0.5926	14	14	100	Pass
0.5992	13	13	100	Pass
0.6057	13	13	100	Pass
0.6123	13	13	100	Pass
0.6188	12	12	100	Pass
0.6253	12	12	100	Pass
0.6319	10	10	100	Pass
0.6384	9	9	100	Pass
0.6450	9	9	100	Pass
0.6515	8	8	100	Pass
0.6581	8	8	100	Pass
0.6646	7	7	100	Pass
0.6712	7	7	100	Pass
0.6777	7	7	100	Pass
0.6843	6	6	100	Pass
0.6908	6	6	100	Pass
0.6974	5	5	100	Pass
0.7039	5	5	100	Pass
0.7105	5	5	100	Pass
0.7170	5	5	100	Pass
0.7236	5	5	100	Pass
0.7301	5	5	100	Pass

0.7366	4	4	100	Pass
0.7432	4	4	100	Pass
0.7497	3	3	100	Pass
0.7563	2	2	100	Pass
0.7628	2	2	100	Pass
0.7694	1	1	100	Pass
0.7759	0	0	100	Pass
0.7825	0	0	0	Pass
0.7890	0	0	0	Pass
0.7956	0	0	0	Pass
0.8021	0	0	0	Pass
0.8087	0	0	0	Pass
0.8152	0	0	0	Pass
0.8218	0	0	0	Pass
0.8283	0	0	0	Pass
0.8349	0	0	0	Pass
0.8414	0	0	0	Pass
0.8479	0	0	0	Pass
0.8545	0	0	0	Pass
0.8610	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #9
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 9

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	39.2251	39.2251	100.0	Pass
Feb	30.6534	30.6534	100.0	Pass
Mar	26.7373	26.7373	100.0	Pass
Apr	13.6979	13.6979	100.0	Pass
May	5.4382	5.4382	100.0	Pass
Jun	3.0104	3.0104	100.0	Pass
Jul	1.1625	1.1625	100.0	Pass
Aug	1.4234	1.4234	100.0	Pass
Sep	4.8318	4.8318	100.0	Pass
Oct	15.8400	15.8400	100.0	Pass
Nov	34.3575	34.3575	100.0	Pass
Dec	37.8619	37.8619	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.2288	1.2288	100.0	Pass
2	1.1033	1.1033	100.0	Pass
3	1.1803	1.1803	100.0	Pass
4	1.2477	1.2477	100.0	Pass
5	1.2035	1.2035	100.0	Pass
6	1.3327	1.3327	100.0	Pass
7	1.3636	1.3636	100.0	Pass
8	1.2892	1.2892	100.0	Pass

9	1.2450	1.2450	100.0	Pass
10	1.3340	1.3340	100.0	Pass
11	1.4830	1.4830	100.0	Pass
12	1.3999	1.3999	100.0	Pass
13	1.4819	1.4819	100.0	Pass
14	1.5637	1.5637	100.0	Pass
15	1.5117	1.5117	100.0	Pass
16	1.4341	1.4341	100.0	Pass
17	1.3127	1.3127	100.0	Pass
18	1.1683	1.1683	100.0	Pass
19	1.0576	1.0576	100.0	Pass
20	0.8804	0.8804	100.0	Pass
21	0.8756	0.8756	100.0	Pass
22	1.2932	1.2932	100.0	Pass
23	1.5633	1.5633	100.0	Pass
24	1.4058	1.4058	100.0	Pass
25	1.2058	1.2058	100.0	Pass
26	1.0821	1.0821	100.0	Pass
27	1.0560	1.0560	100.0	Pass
28	1.2609	1.2609	100.0	Pass
29	1.2117	1.2117	100.0	Pass
30	1.2139	1.2139	100.0	Pass
31	1.0318	1.0318	100.0	Pass
Feb1	0.9590	0.9590	100.0	Pass
2	0.8297	0.8297	100.0	Pass
3	0.7938	0.7938	100.0	Pass
4	0.7369	0.7369	100.0	Pass
5	0.9502	0.9502	100.0	Pass
6	0.8673	0.8673	100.0	Pass
7	0.8303	0.8303	100.0	Pass
8	0.7676	0.7676	100.0	Pass
9	0.7295	0.7295	100.0	Pass
10	0.8844	0.8844	100.0	Pass
11	1.2455	1.2455	100.0	Pass
12	1.2561	1.2561	100.0	Pass
13	1.1852	1.1852	100.0	Pass
14	1.3937	1.3937	100.0	Pass
15	1.4547	1.4547	100.0	Pass
16	1.5025	1.5025	100.0	Pass
17	1.5184	1.5184	100.0	Pass
18	1.4469	1.4469	100.0	Pass
19	1.2164	1.2164	100.0	Pass
20	1.1119	1.1119	100.0	Pass
21	0.9156	0.9156	100.0	Pass
22	1.0509	1.0509	100.0	Pass
23	1.0826	1.0826	100.0	Pass
24	1.1699	1.1699	100.0	Pass
25	1.1515	1.1515	100.0	Pass
26	1.1684	1.1684	100.0	Pass
27	1.0646	1.0646	100.0	Pass
28	1.2236	1.2236	100.0	Pass
29	0.9671	0.9671	100.0	Pass
Mar1	0.9111	0.9111	100.0	Pass
2	0.8247	0.8247	100.0	Pass
3	0.8996	0.8996	100.0	Pass
4	0.9936	0.9936	100.0	Pass
5	0.8880	0.8880	100.0	Pass

6	1.0432	1.0432	100.0	Pass
7	0.9568	0.9568	100.0	Pass
8	1.0090	1.0090	100.0	Pass
9	1.0133	1.0133	100.0	Pass
10	0.9662	0.9662	100.0	Pass
11	0.9694	0.9694	100.0	Pass
12	0.8840	0.8840	100.0	Pass
13	0.9737	0.9737	100.0	Pass
14	0.9009	0.9009	100.0	Pass
15	0.7673	0.7673	100.0	Pass
16	0.6720	0.6720	100.0	Pass
17	0.8140	0.8140	100.0	Pass
18	0.6516	0.6516	100.0	Pass
19	0.6872	0.6872	100.0	Pass
20	0.6455	0.6455	100.0	Pass
21	0.8235	0.8235	100.0	Pass
22	0.9838	0.9838	100.0	Pass
23	1.0570	1.0570	100.0	Pass
24	0.8872	0.8872	100.0	Pass
25	0.8817	0.8817	100.0	Pass
26	0.8403	0.8403	100.0	Pass
27	0.7007	0.7007	100.0	Pass
28	0.7830	0.7830	100.0	Pass
29	0.7120	0.7120	100.0	Pass
30	0.6308	0.6308	100.0	Pass
31	0.5075	0.5075	100.0	Pass
Apr1	0.4612	0.4612	100.0	Pass
2	0.4644	0.4644	100.0	Pass
3	0.5051	0.5051	100.0	Pass
4	0.5760	0.5760	100.0	Pass
5	0.6782	0.6782	100.0	Pass
6	0.4994	0.4994	100.0	Pass
7	0.4903	0.4903	100.0	Pass
8	0.5700	0.5700	100.0	Pass
9	0.4922	0.4922	100.0	Pass
10	0.5432	0.5432	100.0	Pass
11	0.5329	0.5329	100.0	Pass
12	0.6023	0.6023	100.0	Pass
13	0.5786	0.5786	100.0	Pass
14	0.5742	0.5742	100.0	Pass
15	0.5965	0.5965	100.0	Pass
16	0.4667	0.4667	100.0	Pass
17	0.4114	0.4114	100.0	Pass
18	0.4364	0.4364	100.0	Pass
19	0.3868	0.3868	100.0	Pass
20	0.2902	0.2902	100.0	Pass
21	0.3233	0.3233	100.0	Pass
22	0.3204	0.3204	100.0	Pass
23	0.3251	0.3251	100.0	Pass
24	0.2781	0.2781	100.0	Pass
25	0.2544	0.2544	100.0	Pass
26	0.4119	0.4119	100.0	Pass
27	0.4014	0.4014	100.0	Pass
28	0.4141	0.4141	100.0	Pass
29	0.3069	0.3069	100.0	Pass
30	0.2374	0.2374	100.0	Pass
May1	0.2702	0.2702	100.0	Pass

2	0.3002	0.3002	100.0	Pass
3	0.2648	0.2648	100.0	Pass
4	0.2607	0.2607	100.0	Pass
5	0.2263	0.2263	100.0	Pass
6	0.1877	0.1877	100.0	Pass
7	0.2022	0.2022	100.0	Pass
8	0.1800	0.1800	100.0	Pass
9	0.1663	0.1663	100.0	Pass
10	0.1474	0.1474	100.0	Pass
11	0.1307	0.1307	100.0	Pass
12	0.1687	0.1687	100.0	Pass
13	0.1806	0.1806	100.0	Pass
14	0.1766	0.1766	100.0	Pass
15	0.1903	0.1903	100.0	Pass
16	0.1548	0.1548	100.0	Pass
17	0.1590	0.1590	100.0	Pass
18	0.1569	0.1569	100.0	Pass
19	0.1545	0.1545	100.0	Pass
20	0.1117	0.1117	100.0	Pass
21	0.1143	0.1143	100.0	Pass
22	0.1054	0.1054	100.0	Pass
23	0.1215	0.1215	100.0	Pass
24	0.1293	0.1293	100.0	Pass
25	0.1228	0.1228	100.0	Pass
26	0.1471	0.1471	100.0	Pass
27	0.1543	0.1543	100.0	Pass
28	0.1469	0.1469	100.0	Pass
29	0.1968	0.1968	100.0	Pass
30	0.1735	0.1735	100.0	Pass
31	0.1808	0.1808	100.0	Pass
Jun1	0.1712	0.1712	100.0	Pass
2	0.1362	0.1362	100.0	Pass
3	0.1415	0.1415	100.0	Pass
4	0.1386	0.1386	100.0	Pass
5	0.1585	0.1585	100.0	Pass
6	0.1419	0.1419	100.0	Pass
7	0.1373	0.1373	100.0	Pass
8	0.1538	0.1538	100.0	Pass
9	0.1375	0.1375	100.0	Pass
10	0.1084	0.1084	100.0	Pass
11	0.0968	0.0968	100.0	Pass
12	0.0789	0.0789	100.0	Pass
13	0.1187	0.1187	100.0	Pass
14	0.1058	0.1058	100.0	Pass
15	0.1137	0.1137	100.0	Pass
16	0.1010	0.1010	100.0	Pass
17	0.0856	0.0856	100.0	Pass
18	0.0907	0.0907	100.0	Pass
19	0.0564	0.0564	100.0	Pass
20	0.0465	0.0465	100.0	Pass
21	0.0622	0.0622	100.0	Pass
22	0.0525	0.0525	100.0	Pass
23	0.0779	0.0779	100.0	Pass
24	0.1089	0.1089	100.0	Pass
25	0.0743	0.0743	100.0	Pass
26	0.0506	0.0506	100.0	Pass
27	0.0315	0.0315	100.0	Pass

28	0.0269	0.0269	100.0	Pass
29	0.0261	0.0261	100.0	Pass
30	0.0713	0.0713	100.0	Pass
Jul11	0.0577	0.0577	100.0	Pass
2	0.0317	0.0317	100.0	Pass
3	0.0194	0.0194	100.0	Pass
4	0.0127	0.0127	100.0	Pass
5	0.0188	0.0188	100.0	Pass
6	0.0170	0.0170	100.0	Pass
7	0.0436	0.0436	100.0	Pass
8	0.0566	0.0566	100.0	Pass
9	0.0515	0.0515	100.0	Pass
10	0.0572	0.0572	100.0	Pass
11	0.1212	0.1212	100.0	Pass
12	0.1496	0.1496	100.0	Pass
13	0.0913	0.0913	100.0	Pass
14	0.0673	0.0673	100.0	Pass
15	0.0459	0.0459	100.0	Pass
16	0.0269	0.0269	100.0	Pass
17	0.0398	0.0398	100.0	Pass
18	0.0432	0.0432	100.0	Pass
19	0.0281	0.0281	100.0	Pass
20	0.0221	0.0221	100.0	Pass
21	0.0343	0.0343	100.0	Pass
22	0.0212	0.0212	100.0	Pass
23	0.0108	0.0108	100.0	Pass
24	0.0058	0.0058	100.0	Pass
25	0.0035	0.0035	100.0	Pass
26	0.0022	0.0022	100.0	Pass
27	0.0017	0.0017	100.0	Pass
28	0.0032	0.0032	100.0	Pass
29	0.0041	0.0041	100.0	Pass
30	0.0025	0.0025	100.0	Pass
31	0.0027	0.0027	100.0	Pass
Aug1	0.0120	0.0120	100.0	Pass
2	0.0238	0.0238	100.0	Pass
3	0.0187	0.0187	100.0	Pass
4	0.0115	0.0115	100.0	Pass
5	0.0257	0.0257	100.0	Pass
6	0.0365	0.0365	100.0	Pass
7	0.0269	0.0269	100.0	Pass
8	0.0147	0.0147	100.0	Pass
9	0.0074	0.0074	100.0	Pass
10	0.0051	0.0051	100.0	Pass
11	0.0079	0.0079	100.0	Pass
12	0.0121	0.0121	100.0	Pass
13	0.0182	0.0182	100.0	Pass
14	0.0284	0.0284	100.0	Pass
15	0.0351	0.0351	100.0	Pass
16	0.0212	0.0212	100.0	Pass
17	0.0123	0.0123	100.0	Pass
18	0.0200	0.0200	100.0	Pass
19	0.0386	0.0386	100.0	Pass
20	0.0249	0.0249	100.0	Pass
21	0.0438	0.0438	100.0	Pass
22	0.0683	0.0683	100.0	Pass
23	0.1055	0.1055	100.0	Pass

24	0.1613	0.1613	100.0	Pass
25	0.1083	0.1083	100.0	Pass
26	0.0831	0.0831	100.0	Pass
27	0.1138	0.1138	100.0	Pass
28	0.1437	0.1437	100.0	Pass
29	0.1059	0.1059	100.0	Pass
30	0.0861	0.0861	100.0	Pass
31	0.1657	0.1657	100.0	Pass
Sep1	0.1840	0.1840	100.0	Pass
2	0.1320	0.1320	100.0	Pass
3	0.1086	0.1086	100.0	Pass
4	0.0972	0.0972	100.0	Pass
5	0.0969	0.0969	100.0	Pass
6	0.0831	0.0831	100.0	Pass
7	0.0708	0.0708	100.0	Pass
8	0.0901	0.0901	100.0	Pass
9	0.1060	0.1060	100.0	Pass
10	0.0942	0.0942	100.0	Pass
11	0.0547	0.0547	100.0	Pass
12	0.0589	0.0589	100.0	Pass
13	0.1260	0.1260	100.0	Pass
14	0.1520	0.1520	100.0	Pass
15	0.1689	0.1689	100.0	Pass
16	0.2651	0.2651	100.0	Pass
17	0.2369	0.2369	100.0	Pass
18	0.2269	0.2269	100.0	Pass
19	0.2827	0.2827	100.0	Pass
20	0.2881	0.2881	100.0	Pass
21	0.3377	0.3377	100.0	Pass
22	0.2944	0.2944	100.0	Pass
23	0.2258	0.2258	100.0	Pass
24	0.1643	0.1643	100.0	Pass
25	0.1224	0.1224	100.0	Pass
26	0.1224	0.1224	100.0	Pass
27	0.1805	0.1805	100.0	Pass
28	0.1424	0.1424	100.0	Pass
29	0.1539	0.1539	100.0	Pass
30	0.1732	0.1732	100.0	Pass
Oct1	0.1468	0.1468	100.0	Pass
2	0.1466	0.1466	100.0	Pass
3	0.1758	0.1758	100.0	Pass
4	0.2500	0.2500	100.0	Pass
5	0.2829	0.2829	100.0	Pass
6	0.2980	0.2980	100.0	Pass
7	0.4070	0.4070	100.0	Pass
8	0.4263	0.4263	100.0	Pass
9	0.3747	0.3747	100.0	Pass
10	0.3184	0.3184	100.0	Pass
11	0.3466	0.3466	100.0	Pass
12	0.3584	0.3584	100.0	Pass
13	0.3565	0.3565	100.0	Pass
14	0.3755	0.3755	100.0	Pass
15	0.3371	0.3371	100.0	Pass
16	0.4215	0.4215	100.0	Pass
17	0.4165	0.4165	100.0	Pass
18	0.5864	0.5864	100.0	Pass
19	0.7867	0.7867	100.0	Pass

20	0.7292	0.7292	100.0	Pass
21	0.8560	0.8560	100.0	Pass
22	0.7707	0.7707	100.0	Pass
23	0.8437	0.8437	100.0	Pass
24	0.8384	0.8384	100.0	Pass
25	0.8017	0.8017	100.0	Pass
26	0.8526	0.8526	100.0	Pass
27	0.8643	0.8643	100.0	Pass
28	0.7905	0.7905	100.0	Pass
29	0.7315	0.7315	100.0	Pass
30	0.7782	0.7782	100.0	Pass
31	0.8370	0.8370	100.0	Pass
Nov1	0.9579	0.9579	100.0	Pass
2	0.9842	0.9842	100.0	Pass
3	1.0922	1.0922	100.0	Pass
4	0.9686	0.9686	100.0	Pass
5	1.0538	1.0538	100.0	Pass
6	1.0300	1.0300	100.0	Pass
7	0.9220	0.9220	100.0	Pass
8	0.9341	0.9341	100.0	Pass
9	1.1281	1.1281	100.0	Pass
10	1.1148	1.1148	100.0	Pass
11	1.1692	1.1692	100.0	Pass
12	1.0939	1.0939	100.0	Pass
13	1.0708	1.0708	100.0	Pass
14	0.9832	0.9832	100.0	Pass
15	1.0619	1.0619	100.0	Pass
16	1.0973	1.0973	100.0	Pass
17	1.1067	1.1067	100.0	Pass
18	1.3738	1.3738	100.0	Pass
19	1.4508	1.4508	100.0	Pass
20	1.2329	1.2329	100.0	Pass
21	1.3772	1.3772	100.0	Pass
22	1.4740	1.4740	100.0	Pass
23	1.5308	1.5308	100.0	Pass
24	1.5574	1.5574	100.0	Pass
25	1.3715	1.3715	100.0	Pass
26	1.1111	1.1111	100.0	Pass
27	1.0050	1.0050	100.0	Pass
28	0.9760	0.9760	100.0	Pass
29	1.2930	1.2930	100.0	Pass
30	1.3732	1.3732	100.0	Pass
Dec1	1.3836	1.3836	100.0	Pass
2	1.4612	1.4612	100.0	Pass
3	1.1759	1.1759	100.0	Pass
4	1.0493	1.0493	100.0	Pass
5	1.0053	1.0053	100.0	Pass
6	0.8137	0.8137	100.0	Pass
7	0.9012	0.9012	100.0	Pass
8	1.1152	1.1152	100.0	Pass
9	1.2778	1.2778	100.0	Pass
10	1.4207	1.4207	100.0	Pass
11	1.2044	1.2044	100.0	Pass
12	1.1626	1.1626	100.0	Pass
13	1.3749	1.3749	100.0	Pass
14	1.4045	1.4045	100.0	Pass
15	1.3997	1.3997	100.0	Pass

16	1.3104	1.3104	100.0	Pass
17	1.2393	1.2393	100.0	Pass
18	1.1324	1.1324	100.0	Pass
19	1.0939	1.0939	100.0	Pass
20	1.1997	1.1997	100.0	Pass
21	1.3210	1.3210	100.0	Pass
22	1.2689	1.2689	100.0	Pass
23	1.3328	1.3328	100.0	Pass
24	1.3810	1.3810	100.0	Pass
25	1.4655	1.4655	100.0	Pass
26	1.3716	1.3716	100.0	Pass
27	1.0577	1.0577	100.0	Pass
28	1.1490	1.1490	100.0	Pass
29	1.0765	1.0765	100.0	Pass
30	0.9403	0.9403	100.0	Pass
31	1.2373	1.2373	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #10
Total Pervious Area:0.149
Total Impervious Area:0.178

Mitigated Landuse Totals for POC #10
Total Pervious Area:0.149
Total Impervious Area:0.178

Flow Frequency Return Periods for Predeveloped. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.166003
5 year	0.20473
10 year	0.226261
25 year	0.249959
50 year	0.265573
100 year	0.27976

Flow Frequency Return Periods for Mitigated. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.166003
5 year	0.20473
10 year	0.226261
25 year	0.249959
50 year	0.265573
100 year	0.27976

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #10

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.190	0.190

1957	0.220	0.220
1958	0.161	0.161
1959	0.179	0.179
1960	0.189	0.189
1961	0.129	0.129
1962	0.249	0.249
1963	0.223	0.223
1964	0.181	0.181
1965	0.187	0.187
1966	0.191	0.191
1967	0.108	0.108
1968	0.177	0.177
1969	0.175	0.175
1970	0.144	0.144
1971	0.252	0.252
1972	0.218	0.218
1973	0.185	0.185
1974	0.192	0.192
1975	0.162	0.162
1976	0.202	0.202
1977	0.138	0.138
1978	0.245	0.245
1979	0.157	0.157
1980	0.141	0.141
1981	0.178	0.178
1982	0.204	0.204
1983	0.162	0.162
1984	0.158	0.158
1985	0.101	0.101
1986	0.188	0.188
1987	0.128	0.128
1988	0.201	0.201
1989	0.161	0.161
1990	0.226	0.226
1991	0.134	0.134
1992	0.100	0.100
1993	0.109	0.109
1994	0.156	0.156
1995	0.126	0.126
1996	0.159	0.159
1997	0.176	0.176
1998	0.105	0.105
1999	0.140	0.140
2000	0.129	0.129
2001	0.113	0.113
2002	0.154	0.154
2003	0.245	0.245
2004	0.221	0.221
2005	0.168	0.168
2006	0.175	0.175
2007	0.211	0.211
2008	0.096	0.096
2009	0.088	0.088

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #10

Rank	Predeveloped	Mitigated
1	0.2515	0.2515
2	0.2489	0.2489
3	0.2455	0.2455
4	0.2453	0.2453
5	0.2263	0.2263
6	0.2230	0.2230
7	0.2207	0.2207
8	0.2199	0.2199
9	0.2180	0.2180
10	0.2110	0.2110
11	0.2042	0.2042
12	0.2018	0.2018
13	0.2006	0.2006
14	0.1921	0.1921
15	0.1909	0.1909
16	0.1902	0.1902
17	0.1886	0.1886
18	0.1876	0.1876
19	0.1873	0.1873
20	0.1849	0.1849
21	0.1812	0.1812
22	0.1789	0.1789
23	0.1777	0.1777
24	0.1770	0.1770
25	0.1764	0.1764
26	0.1751	0.1751
27	0.1751	0.1751
28	0.1684	0.1684
29	0.1623	0.1623
30	0.1619	0.1619
31	0.1611	0.1611
32	0.1605	0.1605
33	0.1585	0.1585
34	0.1577	0.1577
35	0.1570	0.1570
36	0.1559	0.1559
37	0.1537	0.1537
38	0.1437	0.1437
39	0.1408	0.1408
40	0.1399	0.1399
41	0.1383	0.1383
42	0.1337	0.1337
43	0.1290	0.1290
44	0.1286	0.1286
45	0.1284	0.1284
46	0.1258	0.1258
47	0.1134	0.1134
48	0.1092	0.1092
49	0.1081	0.1081
50	0.1051	0.1051
51	0.1006	0.1006
52	0.1001	0.1001
53	0.0955	0.0955
54	0.0878	0.0878

Stream Protection Duration

POC #10

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0830	810	810	100	Pass
0.0848	756	756	100	Pass
0.0867	704	704	100	Pass
0.0885	651	651	100	Pass
0.0904	616	616	100	Pass
0.0922	570	570	100	Pass
0.0941	539	539	100	Pass
0.0959	491	491	100	Pass
0.0978	459	459	100	Pass
0.0996	422	422	100	Pass
0.1014	388	388	100	Pass
0.1033	368	368	100	Pass
0.1051	350	350	100	Pass
0.1070	335	335	100	Pass
0.1088	307	307	100	Pass
0.1107	284	284	100	Pass
0.1125	258	258	100	Pass
0.1144	244	244	100	Pass
0.1162	231	231	100	Pass
0.1180	213	213	100	Pass
0.1199	205	205	100	Pass
0.1217	192	192	100	Pass
0.1236	187	187	100	Pass
0.1254	175	175	100	Pass
0.1273	167	167	100	Pass
0.1291	155	155	100	Pass
0.1309	145	145	100	Pass
0.1328	141	141	100	Pass
0.1346	136	136	100	Pass
0.1365	127	127	100	Pass
0.1383	120	120	100	Pass
0.1402	116	116	100	Pass
0.1420	107	107	100	Pass
0.1439	102	102	100	Pass
0.1457	97	97	100	Pass
0.1475	94	94	100	Pass
0.1494	91	91	100	Pass
0.1512	86	86	100	Pass
0.1531	81	81	100	Pass
0.1549	76	76	100	Pass
0.1568	74	74	100	Pass
0.1586	68	68	100	Pass
0.1605	66	66	100	Pass
0.1623	61	61	100	Pass
0.1641	57	57	100	Pass
0.1660	54	54	100	Pass
0.1678	51	51	100	Pass
0.1697	48	48	100	Pass
0.1715	48	48	100	Pass
0.1734	48	48	100	Pass

0.1752	44	44	100	Pass
0.1771	42	42	100	Pass
0.1789	40	40	100	Pass
0.1807	37	37	100	Pass
0.1826	35	35	100	Pass
0.1844	34	34	100	Pass
0.1863	32	32	100	Pass
0.1881	30	30	100	Pass
0.1900	28	28	100	Pass
0.1918	26	26	100	Pass
0.1937	24	24	100	Pass
0.1955	23	23	100	Pass
0.1973	22	22	100	Pass
0.1992	20	20	100	Pass
0.2010	19	19	100	Pass
0.2029	16	16	100	Pass
0.2047	14	14	100	Pass
0.2066	14	14	100	Pass
0.2084	13	13	100	Pass
0.2102	13	13	100	Pass
0.2121	11	11	100	Pass
0.2139	11	11	100	Pass
0.2158	11	11	100	Pass
0.2176	11	11	100	Pass
0.2195	10	10	100	Pass
0.2213	8	8	100	Pass
0.2232	7	7	100	Pass
0.2250	7	7	100	Pass
0.2268	6	6	100	Pass
0.2287	6	6	100	Pass
0.2305	6	6	100	Pass
0.2324	6	6	100	Pass
0.2342	6	6	100	Pass
0.2361	5	5	100	Pass
0.2379	5	5	100	Pass
0.2398	4	4	100	Pass
0.2416	4	4	100	Pass
0.2434	4	4	100	Pass
0.2453	4	4	100	Pass
0.2471	2	2	100	Pass
0.2490	2	2	100	Pass
0.2508	1	1	100	Pass
0.2527	0	0	100	Pass
0.2545	0	0	0	Pass
0.2564	0	0	0	Pass
0.2582	0	0	0	Pass
0.2600	0	0	0	Pass
0.2619	0	0	0	Pass
0.2637	0	0	0	Pass
0.2656	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #10
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 10
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	11.7348	11.7348	100.0	Pass
Feb	9.0351	9.0351	100.0	Pass
Mar	7.9651	7.9651	100.0	Pass
Apr	4.3303	4.3303	100.0	Pass
May	2.1506	2.1506	100.0	Pass
Jun	1.3733	1.3733	100.0	Pass
Jul	0.6505	0.6505	100.0	Pass
Aug	0.9471	0.9471	100.0	Pass
Sep	2.3024	2.3024	100.0	Pass
Oct	6.0061	6.0061	100.0	Pass
Nov	10.8861	10.8861	100.0	Pass
Dec	11.3228	11.3228	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3739	0.3739	100.0	Pass
2	0.3054	0.3054	100.0	Pass
3	0.3705	0.3705	100.0	Pass
4	0.4237	0.4237	100.0	Pass
5	0.3325	0.3325	100.0	Pass
6	0.4605	0.4605	100.0	Pass
7	0.3840	0.3840	100.0	Pass
8	0.3791	0.3791	100.0	Pass
9	0.3937	0.3937	100.0	Pass
10	0.3927	0.3927	100.0	Pass
11	0.4683	0.4683	100.0	Pass
12	0.3872	0.3872	100.0	Pass
13	0.4646	0.4646	100.0	Pass
14	0.4705	0.4705	100.0	Pass
15	0.4363	0.4363	100.0	Pass
16	0.3739	0.3739	100.0	Pass
17	0.3532	0.3532	100.0	Pass
18	0.3126	0.3126	100.0	Pass
19	0.3032	0.3032	100.0	Pass
20	0.2145	0.2145	100.0	Pass
21	0.3442	0.3442	100.0	Pass
22	0.4360	0.4360	100.0	Pass
23	0.4975	0.4975	100.0	Pass
24	0.3677	0.3677	100.0	Pass
25	0.3128	0.3128	100.0	Pass
26	0.2819	0.2819	100.0	Pass
27	0.3304	0.3304	100.0	Pass
28	0.4136	0.4136	100.0	Pass
29	0.3368	0.3368	100.0	Pass
30	0.3801	0.3801	100.0	Pass
31	0.2534	0.2534	100.0	Pass
Feb1	0.2708	0.2708	100.0	Pass
2	0.2435	0.2435	100.0	Pass
3	0.2237	0.2237	100.0	Pass
4	0.2073	0.2073	100.0	Pass

5	0.3483	0.3483	100.0	Pass
6	0.2083	0.2083	100.0	Pass
7	0.2671	0.2671	100.0	Pass
8	0.2143	0.2143	100.0	Pass
9	0.2419	0.2419	100.0	Pass
10	0.3148	0.3148	100.0	Pass
11	0.4215	0.4215	100.0	Pass
12	0.3530	0.3530	100.0	Pass
13	0.3657	0.3657	100.0	Pass
14	0.4899	0.4899	100.0	Pass
15	0.3933	0.3933	100.0	Pass
16	0.4819	0.4819	100.0	Pass
17	0.4403	0.4403	100.0	Pass
18	0.3679	0.3679	100.0	Pass
19	0.3166	0.3166	100.0	Pass
20	0.3001	0.3001	100.0	Pass
21	0.2462	0.2462	100.0	Pass
22	0.3366	0.3366	100.0	Pass
23	0.3270	0.3270	100.0	Pass
24	0.3583	0.3583	100.0	Pass
25	0.3289	0.3289	100.0	Pass
26	0.3269	0.3269	100.0	Pass
27	0.2896	0.2896	100.0	Pass
28	0.3561	0.3561	100.0	Pass
29	0.2741	0.2741	100.0	Pass
Mar1	0.2665	0.2665	100.0	Pass
2	0.2244	0.2244	100.0	Pass
3	0.2954	0.2954	100.0	Pass
4	0.3134	0.3134	100.0	Pass
5	0.2551	0.2551	100.0	Pass
6	0.3161	0.3161	100.0	Pass
7	0.3046	0.3046	100.0	Pass
8	0.3023	0.3023	100.0	Pass
9	0.3032	0.3032	100.0	Pass
10	0.2710	0.2710	100.0	Pass
11	0.2877	0.2877	100.0	Pass
12	0.2567	0.2567	100.0	Pass
13	0.3034	0.3034	100.0	Pass
14	0.2510	0.2510	100.0	Pass
15	0.2068	0.2068	100.0	Pass
16	0.1939	0.1939	100.0	Pass
17	0.2554	0.2554	100.0	Pass
18	0.1685	0.1685	100.0	Pass
19	0.2295	0.2295	100.0	Pass
20	0.1922	0.1922	100.0	Pass
21	0.3027	0.3027	100.0	Pass
22	0.3442	0.3442	100.0	Pass
23	0.3043	0.3043	100.0	Pass
24	0.2120	0.2120	100.0	Pass
25	0.2874	0.2874	100.0	Pass
26	0.2252	0.2252	100.0	Pass
27	0.2073	0.2073	100.0	Pass
28	0.2322	0.2322	100.0	Pass
29	0.2123	0.2123	100.0	Pass
30	0.1666	0.1666	100.0	Pass
31	0.1341	0.1341	100.0	Pass
Apr1	0.1371	0.1371	100.0	Pass

2	0.1499	0.1499	100.0	Pass
3	0.1952	0.1952	100.0	Pass
4	0.1864	0.1864	100.0	Pass
5	0.2053	0.2053	100.0	Pass
6	0.1209	0.1209	100.0	Pass
7	0.1739	0.1739	100.0	Pass
8	0.1814	0.1814	100.0	Pass
9	0.1596	0.1596	100.0	Pass
10	0.1626	0.1626	100.0	Pass
11	0.2063	0.2063	100.0	Pass
12	0.1883	0.1883	100.0	Pass
13	0.1926	0.1926	100.0	Pass
14	0.1704	0.1704	100.0	Pass
15	0.1812	0.1812	100.0	Pass
16	0.1110	0.1110	100.0	Pass
17	0.1349	0.1349	100.0	Pass
18	0.1523	0.1523	100.0	Pass
19	0.0940	0.0940	100.0	Pass
20	0.0845	0.0845	100.0	Pass
21	0.1298	0.1298	100.0	Pass
22	0.1120	0.1120	100.0	Pass
23	0.1014	0.1014	100.0	Pass
24	0.0830	0.0830	100.0	Pass
25	0.0939	0.0939	100.0	Pass
26	0.1564	0.1564	100.0	Pass
27	0.1273	0.1273	100.0	Pass
28	0.1327	0.1327	100.0	Pass
29	0.0723	0.0723	100.0	Pass
30	0.0832	0.0832	100.0	Pass
May1	0.1217	0.1217	100.0	Pass
2	0.0962	0.0962	100.0	Pass
3	0.0986	0.0986	100.0	Pass
4	0.0817	0.0817	100.0	Pass
5	0.0768	0.0768	100.0	Pass
6	0.0645	0.0645	100.0	Pass
7	0.0822	0.0822	100.0	Pass
8	0.0545	0.0545	100.0	Pass
9	0.0700	0.0700	100.0	Pass
10	0.0570	0.0570	100.0	Pass
11	0.0530	0.0530	100.0	Pass
12	0.0745	0.0745	100.0	Pass
13	0.0800	0.0800	100.0	Pass
14	0.0783	0.0783	100.0	Pass
15	0.0576	0.0576	100.0	Pass
16	0.0680	0.0680	100.0	Pass
17	0.0581	0.0581	100.0	Pass
18	0.0868	0.0868	100.0	Pass
19	0.0509	0.0509	100.0	Pass
20	0.0467	0.0467	100.0	Pass
21	0.0477	0.0477	100.0	Pass
22	0.0561	0.0561	100.0	Pass
23	0.0514	0.0514	100.0	Pass
24	0.0541	0.0541	100.0	Pass
25	0.0463	0.0463	100.0	Pass
26	0.0758	0.0758	100.0	Pass
27	0.0622	0.0622	100.0	Pass
28	0.0659	0.0659	100.0	Pass

29	0.0897	0.0897	100.0	Pass
30	0.0613	0.0613	100.0	Pass
31	0.0663	0.0663	100.0	Pass
Jun1	0.0524	0.0524	100.0	Pass
2	0.0757	0.0757	100.0	Pass
3	0.0725	0.0725	100.0	Pass
4	0.0547	0.0547	100.0	Pass
5	0.0864	0.0864	100.0	Pass
6	0.0385	0.0385	100.0	Pass
7	0.0534	0.0534	100.0	Pass
8	0.0723	0.0723	100.0	Pass
9	0.0559	0.0559	100.0	Pass
10	0.0514	0.0514	100.0	Pass
11	0.0386	0.0386	100.0	Pass
12	0.0442	0.0442	100.0	Pass
13	0.0701	0.0701	100.0	Pass
14	0.0329	0.0329	100.0	Pass
15	0.0587	0.0587	100.0	Pass
16	0.0294	0.0294	100.0	Pass
17	0.0375	0.0375	100.0	Pass
18	0.0278	0.0278	100.0	Pass
19	0.0293	0.0293	100.0	Pass
20	0.0309	0.0309	100.0	Pass
21	0.0321	0.0321	100.0	Pass
22	0.0188	0.0188	100.0	Pass
23	0.0830	0.0830	100.0	Pass
24	0.0286	0.0286	100.0	Pass
25	0.0396	0.0396	100.0	Pass
26	0.0241	0.0241	100.0	Pass
27	0.0207	0.0207	100.0	Pass
28	0.0209	0.0209	100.0	Pass
29	0.0269	0.0269	100.0	Pass
30	0.0596	0.0596	100.0	Pass
Jul1	0.0177	0.0177	100.0	Pass
2	0.0139	0.0139	100.0	Pass
3	0.0140	0.0140	100.0	Pass
4	0.0318	0.0318	100.0	Pass
5	0.0244	0.0244	100.0	Pass
6	0.0187	0.0187	100.0	Pass
7	0.0371	0.0371	100.0	Pass
8	0.0233	0.0233	100.0	Pass
9	0.0439	0.0439	100.0	Pass
10	0.0303	0.0303	100.0	Pass
11	0.0625	0.0625	100.0	Pass
12	0.0382	0.0382	100.0	Pass
13	0.0267	0.0267	100.0	Pass
14	0.0359	0.0359	100.0	Pass
15	0.0157	0.0157	100.0	Pass
16	0.0098	0.0098	100.0	Pass
17	0.0295	0.0295	100.0	Pass
18	0.0121	0.0121	100.0	Pass
19	0.0130	0.0130	100.0	Pass
20	0.0209	0.0209	100.0	Pass
21	0.0179	0.0179	100.0	Pass
22	0.0029	0.0029	100.0	Pass
23	0.0052	0.0052	100.0	Pass
24	0.0055	0.0055	100.0	Pass

25	0.0115	0.0115	100.0	Pass
26	0.0048	0.0048	100.0	Pass
27	0.0071	0.0071	100.0	Pass
28	0.0060	0.0060	100.0	Pass
29	0.0040	0.0040	100.0	Pass
30	0.0066	0.0066	100.0	Pass
31	0.0077	0.0077	100.0	Pass
Aug1	0.0317	0.0317	100.0	Pass
2	0.0124	0.0124	100.0	Pass
3	0.0054	0.0054	100.0	Pass
4	0.0049	0.0049	100.0	Pass
5	0.0369	0.0369	100.0	Pass
6	0.0261	0.0261	100.0	Pass
7	0.0104	0.0104	100.0	Pass
8	0.0097	0.0097	100.0	Pass
9	0.0012	0.0012	100.0	Pass
10	0.0049	0.0049	100.0	Pass
11	0.0230	0.0230	100.0	Pass
12	0.0201	0.0201	100.0	Pass
13	0.0255	0.0255	100.0	Pass
14	0.0169	0.0169	100.0	Pass
15	0.0159	0.0159	100.0	Pass
16	0.0129	0.0129	100.0	Pass
17	0.0231	0.0231	100.0	Pass
18	0.0444	0.0444	100.0	Pass
19	0.0148	0.0148	100.0	Pass
20	0.0351	0.0351	100.0	Pass
21	0.0339	0.0339	100.0	Pass
22	0.0648	0.0648	100.0	Pass
23	0.0640	0.0640	100.0	Pass
24	0.0608	0.0608	100.0	Pass
25	0.0278	0.0278	100.0	Pass
26	0.0639	0.0639	100.0	Pass
27	0.0674	0.0674	100.0	Pass
28	0.0699	0.0699	100.0	Pass
29	0.0451	0.0451	100.0	Pass
30	0.0664	0.0664	100.0	Pass
31	0.1077	0.1077	100.0	Pass
Sep1	0.0509	0.0509	100.0	Pass
2	0.0477	0.0477	100.0	Pass
3	0.0489	0.0489	100.0	Pass
4	0.0584	0.0584	100.0	Pass
5	0.0511	0.0511	100.0	Pass
6	0.0363	0.0363	100.0	Pass
7	0.0638	0.0638	100.0	Pass
8	0.0440	0.0440	100.0	Pass
9	0.1029	0.1029	100.0	Pass
10	0.0296	0.0296	100.0	Pass
11	0.0230	0.0230	100.0	Pass
12	0.0546	0.0546	100.0	Pass
13	0.1037	0.1037	100.0	Pass
14	0.0716	0.0716	100.0	Pass
15	0.1037	0.1037	100.0	Pass
16	0.1169	0.1169	100.0	Pass
17	0.1232	0.1232	100.0	Pass
18	0.1120	0.1120	100.0	Pass
19	0.1229	0.1229	100.0	Pass

20	0.0962	0.0962	100.0	Pass
21	0.1284	0.1284	100.0	Pass
22	0.1048	0.1048	100.0	Pass
23	0.0821	0.0821	100.0	Pass
24	0.0591	0.0591	100.0	Pass
25	0.0586	0.0586	100.0	Pass
26	0.0591	0.0591	100.0	Pass
27	0.0818	0.0818	100.0	Pass
28	0.0699	0.0699	100.0	Pass
29	0.0899	0.0899	100.0	Pass
30	0.0698	0.0698	100.0	Pass
Oct1	0.0509	0.0509	100.0	Pass
2	0.1116	0.1116	100.0	Pass
3	0.1031	0.1031	100.0	Pass
4	0.1289	0.1289	100.0	Pass
5	0.1383	0.1383	100.0	Pass
6	0.1517	0.1517	100.0	Pass
7	0.1962	0.1962	100.0	Pass
8	0.1671	0.1671	100.0	Pass
9	0.1332	0.1332	100.0	Pass
10	0.1097	0.1097	100.0	Pass
11	0.1880	0.1880	100.0	Pass
12	0.1362	0.1362	100.0	Pass
13	0.1788	0.1788	100.0	Pass
14	0.1155	0.1155	100.0	Pass
15	0.1281	0.1281	100.0	Pass
16	0.1703	0.1703	100.0	Pass
17	0.1580	0.1580	100.0	Pass
18	0.2470	0.2470	100.0	Pass
19	0.3093	0.3093	100.0	Pass
20	0.2709	0.2709	100.0	Pass
21	0.3253	0.3253	100.0	Pass
22	0.2127	0.2127	100.0	Pass
23	0.3175	0.3175	100.0	Pass
24	0.2862	0.2862	100.0	Pass
25	0.2601	0.2601	100.0	Pass
26	0.3058	0.3058	100.0	Pass
27	0.2709	0.2709	100.0	Pass
28	0.2510	0.2510	100.0	Pass
29	0.2172	0.2172	100.0	Pass
30	0.2974	0.2974	100.0	Pass
31	0.2652	0.2652	100.0	Pass
Nov1	0.3268	0.3268	100.0	Pass
2	0.3814	0.3814	100.0	Pass
3	0.3223	0.3223	100.0	Pass
4	0.3159	0.3159	100.0	Pass
5	0.3479	0.3479	100.0	Pass
6	0.3025	0.3025	100.0	Pass
7	0.2733	0.2733	100.0	Pass
8	0.3326	0.3326	100.0	Pass
9	0.3949	0.3949	100.0	Pass
10	0.3500	0.3500	100.0	Pass
11	0.3853	0.3853	100.0	Pass
12	0.3573	0.3573	100.0	Pass
13	0.2873	0.2873	100.0	Pass
14	0.3152	0.3152	100.0	Pass
15	0.3509	0.3509	100.0	Pass

16	0.3655	0.3655	100.0	Pass
17	0.3423	0.3423	100.0	Pass
18	0.4835	0.4835	100.0	Pass
19	0.4497	0.4497	100.0	Pass
20	0.3191	0.3191	100.0	Pass
21	0.4579	0.4579	100.0	Pass
22	0.5290	0.5290	100.0	Pass
23	0.4349	0.4349	100.0	Pass
24	0.4825	0.4825	100.0	Pass
25	0.3453	0.3453	100.0	Pass
26	0.2803	0.2803	100.0	Pass
27	0.3137	0.3137	100.0	Pass
28	0.3006	0.3006	100.0	Pass
29	0.4735	0.4735	100.0	Pass
30	0.4046	0.4046	100.0	Pass
Dec1	0.4364	0.4364	100.0	Pass
2	0.4322	0.4322	100.0	Pass
3	0.2957	0.2957	100.0	Pass
4	0.3082	0.3082	100.0	Pass
5	0.2727	0.2727	100.0	Pass
6	0.2320	0.2320	100.0	Pass
7	0.3133	0.3133	100.0	Pass
8	0.3923	0.3923	100.0	Pass
9	0.4026	0.4026	100.0	Pass
10	0.4377	0.4377	100.0	Pass
11	0.3324	0.3324	100.0	Pass
12	0.3490	0.3490	100.0	Pass
13	0.4917	0.4917	100.0	Pass
14	0.3761	0.3761	100.0	Pass
15	0.4580	0.4580	100.0	Pass
16	0.3371	0.3371	100.0	Pass
17	0.3771	0.3771	100.0	Pass
18	0.3188	0.3188	100.0	Pass
19	0.3560	0.3560	100.0	Pass
20	0.3588	0.3588	100.0	Pass
21	0.3950	0.3950	100.0	Pass
22	0.3863	0.3863	100.0	Pass
23	0.4161	0.4161	100.0	Pass
24	0.4536	0.4536	100.0	Pass
25	0.4143	0.4143	100.0	Pass
26	0.3804	0.3804	100.0	Pass
27	0.2661	0.2661	100.0	Pass
28	0.3801	0.3801	100.0	Pass
29	0.2755	0.2755	100.0	Pass
30	0.2733	0.2733	100.0	Pass
31	0.4342	0.4342	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #11
Total Pervious Area:0.134
Total Impervious Area:0.373

Mitigated Landuse Totals for POC #11

Total Pervious Area:0.134

Total Impervious Area:0.373

Flow Frequency Return Periods for Predeveloped. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.289257
5 year	0.348331
10 year	0.38061
25 year	0.415738
50 year	0.438673
100 year	0.45938

Flow Frequency Return Periods for Mitigated. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.289257
5 year	0.348331
10 year	0.38061
25 year	0.415738
50 year	0.438673
100 year	0.45938

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #11

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.315	0.315
1957	0.379	0.379
1958	0.285	0.285
1959	0.300	0.300
1960	0.314	0.314
1961	0.236	0.236
1962	0.413	0.413
1963	0.374	0.374
1964	0.317	0.317
1965	0.319	0.319
1966	0.318	0.318
1967	0.194	0.194
1968	0.301	0.301
1969	0.291	0.291
1970	0.261	0.261
1971	0.420	0.420
1972	0.359	0.359
1973	0.321	0.321
1974	0.319	0.319
1975	0.278	0.278
1976	0.342	0.342
1977	0.243	0.243
1978	0.423	0.423
1979	0.268	0.268
1980	0.244	0.244
1981	0.310	0.310
1982	0.358	0.358
1983	0.283	0.283

1984	0.269	0.269
1985	0.191	0.191
1986	0.321	0.321
1987	0.223	0.223
1988	0.343	0.343
1989	0.281	0.281
1990	0.378	0.378
1991	0.229	0.229
1992	0.183	0.183
1993	0.202	0.202
1994	0.271	0.271
1995	0.247	0.247
1996	0.304	0.304
1997	0.312	0.312
1998	0.192	0.192
1999	0.246	0.246
2000	0.225	0.225
2001	0.211	0.211
2002	0.314	0.314
2003	0.406	0.406
2004	0.372	0.372
2005	0.290	0.290
2006	0.298	0.298
2007	0.354	0.354
2008	0.175	0.175
2009	0.164	0.164

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	0.4230	0.4230
2	0.4204	0.4204
3	0.4127	0.4127
4	0.4057	0.4057
5	0.3787	0.3787
6	0.3779	0.3779
7	0.3739	0.3739
8	0.3723	0.3723
9	0.3588	0.3588
10	0.3577	0.3577
11	0.3537	0.3537
12	0.3425	0.3425
13	0.3419	0.3419
14	0.3211	0.3211
15	0.3207	0.3207
16	0.3192	0.3192
17	0.3192	0.3192
18	0.3182	0.3182
19	0.3167	0.3167
20	0.3153	0.3153
21	0.3141	0.3141
22	0.3137	0.3137
23	0.3115	0.3115
24	0.3102	0.3102
25	0.3040	0.3040
26	0.3012	0.3012

27	0.3004	0.3004
28	0.2978	0.2978
29	0.2911	0.2911
30	0.2902	0.2902
31	0.2853	0.2853
32	0.2828	0.2828
33	0.2811	0.2811
34	0.2778	0.2778
35	0.2715	0.2715
36	0.2690	0.2690
37	0.2684	0.2684
38	0.2609	0.2609
39	0.2465	0.2465
40	0.2460	0.2460
41	0.2442	0.2442
42	0.2426	0.2426
43	0.2359	0.2359
44	0.2292	0.2292
45	0.2249	0.2249
46	0.2227	0.2227
47	0.2110	0.2110
48	0.2021	0.2021
49	0.1944	0.1944
50	0.1919	0.1919
51	0.1912	0.1912
52	0.1826	0.1826
53	0.1754	0.1754
54	0.1645	0.1645

Stream Protection Duration

POC #11

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1446	1000	1000	100	Pass
0.1476	927	927	100	Pass
0.1506	860	860	100	Pass
0.1535	796	796	100	Pass
0.1565	748	748	100	Pass
0.1595	691	691	100	Pass
0.1624	628	628	100	Pass
0.1654	588	588	100	Pass
0.1684	554	554	100	Pass
0.1714	517	517	100	Pass
0.1743	478	478	100	Pass
0.1773	440	440	100	Pass
0.1803	410	410	100	Pass
0.1832	388	388	100	Pass
0.1862	363	363	100	Pass
0.1892	340	340	100	Pass
0.1922	313	313	100	Pass
0.1951	297	297	100	Pass
0.1981	275	275	100	Pass
0.2011	257	257	100	Pass

0.2040	239	239	100	Pass
0.2070	228	228	100	Pass
0.2100	220	220	100	Pass
0.2129	206	206	100	Pass
0.2159	196	196	100	Pass
0.2189	183	183	100	Pass
0.2219	177	177	100	Pass
0.2248	165	165	100	Pass
0.2278	158	158	100	Pass
0.2308	150	150	100	Pass
0.2337	141	141	100	Pass
0.2367	133	133	100	Pass
0.2397	129	129	100	Pass
0.2426	122	122	100	Pass
0.2456	111	111	100	Pass
0.2486	103	103	100	Pass
0.2516	98	98	100	Pass
0.2545	93	93	100	Pass
0.2575	92	92	100	Pass
0.2605	90	90	100	Pass
0.2634	85	85	100	Pass
0.2664	80	80	100	Pass
0.2694	76	76	100	Pass
0.2723	72	72	100	Pass
0.2753	70	70	100	Pass
0.2783	66	66	100	Pass
0.2813	62	62	100	Pass
0.2842	54	54	100	Pass
0.2872	52	52	100	Pass
0.2902	51	51	100	Pass
0.2931	48	48	100	Pass
0.2961	47	47	100	Pass
0.2991	45	45	100	Pass
0.3020	43	43	100	Pass
0.3050	41	41	100	Pass
0.3080	40	40	100	Pass
0.3110	38	38	100	Pass
0.3139	36	36	100	Pass
0.3169	32	32	100	Pass
0.3199	30	30	100	Pass
0.3228	25	25	100	Pass
0.3258	24	24	100	Pass
0.3288	24	24	100	Pass
0.3317	23	23	100	Pass
0.3347	22	22	100	Pass
0.3377	21	21	100	Pass
0.3407	20	20	100	Pass
0.3436	16	16	100	Pass
0.3466	15	15	100	Pass
0.3496	15	15	100	Pass
0.3525	15	15	100	Pass
0.3555	13	13	100	Pass
0.3585	12	12	100	Pass
0.3614	10	10	100	Pass
0.3644	10	10	100	Pass
0.3674	10	10	100	Pass
0.3704	10	10	100	Pass

0.3733	9	9	100	Pass
0.3763	8	8	100	Pass
0.3793	6	6	100	Pass
0.3822	6	6	100	Pass
0.3852	6	6	100	Pass
0.3882	5	5	100	Pass
0.3912	5	5	100	Pass
0.3941	5	5	100	Pass
0.3971	5	5	100	Pass
0.4001	4	4	100	Pass
0.4030	4	4	100	Pass
0.4060	3	3	100	Pass
0.4090	3	3	100	Pass
0.4119	3	3	100	Pass
0.4149	2	2	100	Pass
0.4179	2	2	100	Pass
0.4209	2	2	100	Pass
0.4238	1	1	100	Pass
0.4268	0	0	100	Pass
0.4298	0	0	0	Pass
0.4327	0	0	0	Pass
0.4357	0	0	0	Pass
0.4387	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #11
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 11
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	19.0456	19.0456	100.0	Pass
Feb	14.6005	14.6005	100.0	Pass
Mar	12.9115	12.9115	100.0	Pass
Apr	7.1379	7.1379	100.0	Pass
May	3.7378	3.7378	100.0	Pass
Jun	2.4523	2.4523	100.0	Pass
Jul	1.1987	1.1987	100.0	Pass
Aug	1.7835	1.7835	100.0	Pass
Sep	4.1416	4.1416	100.0	Pass
Oct	10.3470	10.3470	100.0	Pass
Nov	17.9557	17.9557	100.0	Pass
Dec	18.3758	18.3758	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.6099	0.6099	100.0	Pass
2	0.4841	0.4841	100.0	Pass
3	0.6096	0.6096	100.0	Pass
4	0.7115	0.7115	100.0	Pass
5	0.5267	0.5267	100.0	Pass

6	0.7766	0.7766	100.0	Pass
7	0.6119	0.6119	100.0	Pass
8	0.6121	0.6121	100.0	Pass
9	0.6491	0.6491	100.0	Pass
10	0.6343	0.6343	100.0	Pass
11	0.7716	0.7716	100.0	Pass
12	0.6136	0.6136	100.0	Pass
13	0.7640	0.7640	100.0	Pass
14	0.7649	0.7649	100.0	Pass
15	0.7006	0.7006	100.0	Pass
16	0.5807	0.5807	100.0	Pass
17	0.5546	0.5546	100.0	Pass
18	0.4898	0.4898	100.0	Pass
19	0.4858	0.4858	100.0	Pass
20	0.3249	0.3249	100.0	Pass
21	0.5974	0.5974	100.0	Pass
22	0.7308	0.7308	100.0	Pass
23	0.8217	0.8217	100.0	Pass
24	0.5719	0.5719	100.0	Pass
25	0.4850	0.4850	100.0	Pass
26	0.4378	0.4378	100.0	Pass
27	0.5430	0.5430	100.0	Pass
28	0.6886	0.6886	100.0	Pass
29	0.5345	0.5345	100.0	Pass
30	0.6249	0.6249	100.0	Pass
31	0.3852	0.3852	100.0	Pass
Feb1	0.4319	0.4319	100.0	Pass
2	0.3930	0.3930	100.0	Pass
3	0.3565	0.3565	100.0	Pass
4	0.3302	0.3302	100.0	Pass
5	0.5955	0.5955	100.0	Pass
6	0.3139	0.3139	100.0	Pass
7	0.4424	0.4424	100.0	Pass
8	0.3405	0.3405	100.0	Pass
9	0.4038	0.4038	100.0	Pass
10	0.5347	0.5347	100.0	Pass
11	0.7071	0.7071	100.0	Pass
12	0.5622	0.5622	100.0	Pass
13	0.5988	0.5988	100.0	Pass
14	0.8296	0.8296	100.0	Pass
15	0.6185	0.6185	100.0	Pass
16	0.7974	0.7974	100.0	Pass
17	0.7080	0.7080	100.0	Pass
18	0.5664	0.5664	100.0	Pass
19	0.4915	0.4915	100.0	Pass
20	0.4717	0.4717	100.0	Pass
21	0.3866	0.3866	100.0	Pass
22	0.5568	0.5568	100.0	Pass
23	0.5321	0.5321	100.0	Pass
24	0.5854	0.5854	100.0	Pass
25	0.5265	0.5265	100.0	Pass
26	0.5198	0.5198	100.0	Pass
27	0.4564	0.4564	100.0	Pass
28	0.5732	0.5732	100.0	Pass
29	0.4377	0.4377	100.0	Pass
Mar1	0.4298	0.4298	100.0	Pass
2	0.3536	0.3536	100.0	Pass

3	0.4918	0.4918	100.0	Pass
4	0.5163	0.5163	100.0	Pass
5	0.4091	0.4091	100.0	Pass
6	0.5149	0.5149	100.0	Pass
7	0.5030	0.5030	100.0	Pass
8	0.4908	0.4908	100.0	Pass
9	0.4922	0.4922	100.0	Pass
10	0.4313	0.4313	100.0	Pass
11	0.4659	0.4659	100.0	Pass
12	0.4129	0.4129	100.0	Pass
13	0.4981	0.4981	100.0	Pass
14	0.3986	0.3986	100.0	Pass
15	0.3249	0.3249	100.0	Pass
16	0.3114	0.3114	100.0	Pass
17	0.4202	0.4202	100.0	Pass
18	0.2609	0.2609	100.0	Pass
19	0.3839	0.3839	100.0	Pass
20	0.3116	0.3116	100.0	Pass
21	0.5180	0.5180	100.0	Pass
22	0.5823	0.5823	100.0	Pass
23	0.4883	0.4883	100.0	Pass
24	0.3188	0.3188	100.0	Pass
25	0.4777	0.4777	100.0	Pass
26	0.3532	0.3532	100.0	Pass
27	0.3354	0.3354	100.0	Pass
28	0.3760	0.3760	100.0	Pass
29	0.3442	0.3442	100.0	Pass
30	0.2600	0.2600	100.0	Pass
31	0.2093	0.2093	100.0	Pass
Apr1	0.2220	0.2220	100.0	Pass
2	0.2485	0.2485	100.0	Pass
3	0.3376	0.3376	100.0	Pass
4	0.3091	0.3091	100.0	Pass
5	0.3344	0.3344	100.0	Pass
6	0.1828	0.1828	100.0	Pass
7	0.2952	0.2952	100.0	Pass
8	0.2995	0.2995	100.0	Pass
9	0.2649	0.2649	100.0	Pass
10	0.2639	0.2639	100.0	Pass
11	0.3570	0.3570	100.0	Pass
12	0.3094	0.3094	100.0	Pass
13	0.3217	0.3217	100.0	Pass
14	0.2758	0.2758	100.0	Pass
15	0.2954	0.2954	100.0	Pass
16	0.1666	0.1666	100.0	Pass
17	0.2246	0.2246	100.0	Pass
18	0.2574	0.2574	100.0	Pass
19	0.1424	0.1424	100.0	Pass
20	0.1360	0.1360	100.0	Pass
21	0.2264	0.2264	100.0	Pass
22	0.1894	0.1894	100.0	Pass
23	0.1666	0.1666	100.0	Pass
24	0.1346	0.1346	100.0	Pass
25	0.1608	0.1608	100.0	Pass
26	0.2695	0.2695	100.0	Pass
27	0.2101	0.2101	100.0	Pass
28	0.2195	0.2195	100.0	Pass

29	0.1082	0.1082	100.0	Pass
30	0.1409	0.1409	100.0	Pass
May1	0.2169	0.2169	100.0	Pass
2	0.1592	0.1592	100.0	Pass
3	0.1692	0.1692	100.0	Pass
4	0.1344	0.1344	100.0	Pass
5	0.1289	0.1289	100.0	Pass
6	0.1087	0.1087	100.0	Pass
7	0.1437	0.1437	100.0	Pass
8	0.0887	0.0887	100.0	Pass
9	0.1231	0.1231	100.0	Pass
10	0.0987	0.0987	100.0	Pass
11	0.0926	0.0926	100.0	Pass
12	0.1322	0.1322	100.0	Pass
13	0.1421	0.1421	100.0	Pass
14	0.1390	0.1390	100.0	Pass
15	0.0938	0.0938	100.0	Pass
16	0.1207	0.1207	100.0	Pass
17	0.0992	0.0992	100.0	Pass
18	0.1597	0.1597	100.0	Pass
19	0.0848	0.0848	100.0	Pass
20	0.0821	0.0821	100.0	Pass
21	0.0838	0.0838	100.0	Pass
22	0.1027	0.1027	100.0	Pass
23	0.0905	0.0905	100.0	Pass
24	0.0951	0.0951	100.0	Pass
25	0.0797	0.0797	100.0	Pass
26	0.1380	0.1380	100.0	Pass
27	0.1086	0.1086	100.0	Pass
28	0.1173	0.1173	100.0	Pass
29	0.1601	0.1601	100.0	Pass
30	0.1039	0.1039	100.0	Pass
31	0.1134	0.1134	100.0	Pass
Jun1	0.0856	0.0856	100.0	Pass
2	0.1394	0.1394	100.0	Pass
3	0.1320	0.1320	100.0	Pass
4	0.0950	0.0950	100.0	Pass
5	0.1586	0.1586	100.0	Pass
6	0.0606	0.0606	100.0	Pass
7	0.0924	0.0924	100.0	Pass
8	0.1298	0.1298	100.0	Pass
9	0.0977	0.0977	100.0	Pass
10	0.0925	0.0925	100.0	Pass
11	0.0672	0.0672	100.0	Pass
12	0.0815	0.0815	100.0	Pass
13	0.1302	0.1302	100.0	Pass
14	0.0539	0.0539	100.0	Pass
15	0.1069	0.1069	100.0	Pass
16	0.0474	0.0474	100.0	Pass
17	0.0665	0.0665	100.0	Pass
18	0.0454	0.0454	100.0	Pass
19	0.0534	0.0534	100.0	Pass
20	0.0581	0.0581	100.0	Pass
21	0.0585	0.0585	100.0	Pass
22	0.0320	0.0320	100.0	Pass
23	0.1629	0.1629	100.0	Pass
24	0.0445	0.0445	100.0	Pass

25	0.0725	0.0725	100.0	Pass
26	0.0433	0.0433	100.0	Pass
27	0.0389	0.0389	100.0	Pass
28	0.0400	0.0400	100.0	Pass
29	0.0527	0.0527	100.0	Pass
30	0.1149	0.1149	100.0	Pass
Jul1	0.0289	0.0289	100.0	Pass
2	0.0246	0.0246	100.0	Pass
3	0.0267	0.0267	100.0	Pass
4	0.0647	0.0647	100.0	Pass
5	0.0485	0.0485	100.0	Pass
6	0.0368	0.0368	100.0	Pass
7	0.0716	0.0716	100.0	Pass
8	0.0408	0.0408	100.0	Pass
9	0.0847	0.0847	100.0	Pass
10	0.0554	0.0554	100.0	Pass
11	0.1138	0.1138	100.0	Pass
12	0.0588	0.0588	100.0	Pass
13	0.0431	0.0431	100.0	Pass
14	0.0657	0.0657	100.0	Pass
15	0.0264	0.0264	100.0	Pass
16	0.0166	0.0166	100.0	Pass
17	0.0563	0.0563	100.0	Pass
18	0.0192	0.0192	100.0	Pass
19	0.0234	0.0234	100.0	Pass
20	0.0408	0.0408	100.0	Pass
21	0.0326	0.0326	100.0	Pass
22	0.0031	0.0031	100.0	Pass
23	0.0093	0.0093	100.0	Pass
24	0.0106	0.0106	100.0	Pass
25	0.0236	0.0236	100.0	Pass
26	0.0097	0.0097	100.0	Pass
27	0.0147	0.0147	100.0	Pass
28	0.0122	0.0122	100.0	Pass
29	0.0078	0.0078	100.0	Pass
30	0.0136	0.0136	100.0	Pass
31	0.0157	0.0157	100.0	Pass
Aug1	0.0648	0.0648	100.0	Pass
2	0.0227	0.0227	100.0	Pass
3	0.0087	0.0087	100.0	Pass
4	0.0087	0.0087	100.0	Pass
5	0.0738	0.0738	100.0	Pass
6	0.0496	0.0496	100.0	Pass
7	0.0180	0.0180	100.0	Pass
8	0.0182	0.0182	100.0	Pass
9	0.0014	0.0014	100.0	Pass
10	0.0095	0.0095	100.0	Pass
11	0.0472	0.0472	100.0	Pass
12	0.0404	0.0404	100.0	Pass
13	0.0509	0.0509	100.0	Pass
14	0.0315	0.0315	100.0	Pass
15	0.0284	0.0284	100.0	Pass
16	0.0241	0.0241	100.0	Pass
17	0.0467	0.0467	100.0	Pass
18	0.0902	0.0902	100.0	Pass
19	0.0255	0.0255	100.0	Pass
20	0.0701	0.0701	100.0	Pass

21	0.0649	0.0649	100.0	Pass
22	0.1262	0.1262	100.0	Pass
23	0.1192	0.1192	100.0	Pass
24	0.1047	0.1047	100.0	Pass
25	0.0430	0.0430	100.0	Pass
26	0.1222	0.1222	100.0	Pass
27	0.1252	0.1252	100.0	Pass
28	0.1261	0.1261	100.0	Pass
29	0.0796	0.0796	100.0	Pass
30	0.1269	0.1269	100.0	Pass
31	0.2022	0.2022	100.0	Pass
Sep1	0.0807	0.0807	100.0	Pass
2	0.0813	0.0813	100.0	Pass
3	0.0872	0.0872	100.0	Pass
4	0.1087	0.1087	100.0	Pass
5	0.0933	0.0933	100.0	Pass
6	0.0642	0.0642	100.0	Pass
7	0.1236	0.1236	100.0	Pass
8	0.0795	0.0795	100.0	Pass
9	0.2007	0.2007	100.0	Pass
10	0.0486	0.0486	100.0	Pass
11	0.0405	0.0405	100.0	Pass
12	0.1060	0.1060	100.0	Pass
13	0.1995	0.1995	100.0	Pass
14	0.1286	0.1286	100.0	Pass
15	0.1935	0.1935	100.0	Pass
16	0.2075	0.2075	100.0	Pass
17	0.2247	0.2247	100.0	Pass
18	0.2026	0.2026	100.0	Pass
19	0.2176	0.2176	100.0	Pass
20	0.1608	0.1608	100.0	Pass
21	0.2213	0.2213	100.0	Pass
22	0.1780	0.1780	100.0	Pass
23	0.1401	0.1401	100.0	Pass
24	0.1006	0.1006	100.0	Pass
25	0.1056	0.1056	100.0	Pass
26	0.1066	0.1066	100.0	Pass
27	0.1458	0.1458	100.0	Pass
28	0.1263	0.1263	100.0	Pass
29	0.1665	0.1665	100.0	Pass
30	0.1218	0.1218	100.0	Pass
Oct1	0.0860	0.0860	100.0	Pass
2	0.2131	0.2131	100.0	Pass
3	0.1912	0.1912	100.0	Pass
4	0.2347	0.2347	100.0	Pass
5	0.2497	0.2497	100.0	Pass
6	0.2758	0.2758	100.0	Pass
7	0.3536	0.3536	100.0	Pass
8	0.2899	0.2899	100.0	Pass
9	0.2261	0.2261	100.0	Pass
10	0.1850	0.1850	100.0	Pass
11	0.3451	0.3451	100.0	Pass
12	0.2347	0.2347	100.0	Pass
13	0.3242	0.3242	100.0	Pass
14	0.1890	0.1890	100.0	Pass
15	0.2208	0.2208	100.0	Pass
16	0.2972	0.2972	100.0	Pass

17	0.2722	0.2722	100.0	Pass
18	0.4346	0.4346	100.0	Pass
19	0.5370	0.5370	100.0	Pass
20	0.4647	0.4647	100.0	Pass
21	0.5608	0.5608	100.0	Pass
22	0.3368	0.3368	100.0	Pass
23	0.5461	0.5461	100.0	Pass
24	0.4813	0.4813	100.0	Pass
25	0.4318	0.4318	100.0	Pass
26	0.5204	0.5204	100.0	Pass
27	0.4455	0.4455	100.0	Pass
28	0.4143	0.4143	100.0	Pass
29	0.3517	0.3517	100.0	Pass
30	0.5131	0.5131	100.0	Pass
31	0.4373	0.4373	100.0	Pass
Nov1	0.5493	0.5493	100.0	Pass
2	0.6600	0.6600	100.0	Pass
3	0.5211	0.5211	100.0	Pass
4	0.5251	0.5251	100.0	Pass
5	0.5801	0.5801	100.0	Pass
6	0.4884	0.4884	100.0	Pass
7	0.4424	0.4424	100.0	Pass
8	0.5650	0.5650	100.0	Pass
9	0.6681	0.6681	100.0	Pass
10	0.5758	0.5758	100.0	Pass
11	0.6421	0.6421	100.0	Pass
12	0.5941	0.5941	100.0	Pass
13	0.4508	0.4508	100.0	Pass
14	0.5216	0.5216	100.0	Pass
15	0.5852	0.5852	100.0	Pass
16	0.6109	0.6109	100.0	Pass
17	0.5608	0.5608	100.0	Pass
18	0.8191	0.8191	100.0	Pass
19	0.7374	0.7374	100.0	Pass
20	0.4943	0.4943	100.0	Pass
21	0.7648	0.7648	100.0	Pass
22	0.9002	0.9002	100.0	Pass
23	0.6950	0.6950	100.0	Pass
24	0.7910	0.7910	100.0	Pass
25	0.5297	0.5297	100.0	Pass
26	0.4303	0.4303	100.0	Pass
27	0.5153	0.5153	100.0	Pass
28	0.4920	0.4920	100.0	Pass
29	0.8095	0.8095	100.0	Pass
30	0.6538	0.6538	100.0	Pass
Dec1	0.7190	0.7190	100.0	Pass
2	0.6990	0.6990	100.0	Pass
3	0.4534	0.4534	100.0	Pass
4	0.4975	0.4975	100.0	Pass
5	0.4294	0.4294	100.0	Pass
6	0.3712	0.3712	100.0	Pass
7	0.5292	0.5292	100.0	Pass
8	0.6645	0.6645	100.0	Pass
9	0.6629	0.6629	100.0	Pass
10	0.7163	0.7163	100.0	Pass
11	0.5263	0.5263	100.0	Pass
12	0.5670	0.5670	100.0	Pass

13	0.8360	0.8360	100.0	Pass
14	0.5896	0.5896	100.0	Pass
15	0.7618	0.7618	100.0	Pass
16	0.5211	0.5211	100.0	Pass
17	0.6150	0.6150	100.0	Pass
18	0.5080	0.5080	100.0	Pass
19	0.5915	0.5915	100.0	Pass
20	0.5823	0.5823	100.0	Pass
21	0.6410	0.6410	100.0	Pass
22	0.6302	0.6302	100.0	Pass
23	0.6837	0.6837	100.0	Pass
24	0.7553	0.7553	100.0	Pass
25	0.6610	0.6610	100.0	Pass
26	0.6034	0.6034	100.0	Pass
27	0.4081	0.4081	100.0	Pass
28	0.6342	0.6342	100.0	Pass
29	0.4251	0.4251	100.0	Pass
30	0.4399	0.4399	100.0	Pass
31	0.7349	0.7349	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #12

Total Pervious Area:0
Total Impervious Area:1.847

Mitigated Landuse Totals for POC #12

Total Pervious Area:0
Total Impervious Area:1.847

Flow Frequency Return Periods for Predeveloped. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.212694
5 year	1.430131
10 year	1.550144
25 year	1.682238
50 year	1.769533
100 year	1.849182

Flow Frequency Return Periods for Mitigated. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.212694
5 year	1.430131
10 year	1.550144
25 year	1.682238
50 year	1.769533
100 year	1.849182

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #12

Year	Predeveloped	Mitigated
1956	1.251	1.251
1957	1.569	1.569
1958	1.223	1.223
1959	1.211	1.211
1960	1.250	1.250
1961	1.060	1.060
1962	1.638	1.638
1963	1.504	1.504
1964	1.333	1.333
1965	1.308	1.308
1966	1.271	1.271
1967	0.843	0.843
1968	1.232	1.232
1969	1.159	1.159
1970	1.142	1.142
1971	1.685	1.685
1972	1.412	1.412
1973	1.340	1.340
1974	1.270	1.270
1975	1.147	1.147
1976	1.392	1.392
1977	1.026	1.026
1978	1.756	1.756
1979	1.103	1.103
1980	1.030	1.030
1981	1.305	1.305
1982	1.510	1.510
1983	1.187	1.187
1984	1.103	1.103
1985	0.874	0.874
1986	1.322	1.322
1987	0.931	0.931
1988	1.406	1.406
1989	1.182	1.182
1990	1.513	1.513
1991	1.061	1.061
1992	0.820	0.820
1993	0.902	0.902
1994	1.139	1.139
1995	1.157	1.157
1996	1.400	1.400
1997	1.326	1.326
1998	0.865	0.865
1999	1.042	1.042
2000	0.990	0.990
2001	0.946	0.946
2002	1.526	1.526
2003	1.604	1.604
2004	1.508	1.508
2005	1.204	1.204
2006	1.218	1.218
2007	1.423	1.423
2008	0.776	0.776
2009	0.742	0.742

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #12

Rank	Predeveloped	Mitigated
1	1.7557	1.7557
2	1.6852	1.6852
3	1.6378	1.6378
4	1.6043	1.6043
5	1.5694	1.5694
6	1.5262	1.5262
7	1.5125	1.5125
8	1.5101	1.5101
9	1.5081	1.5081
10	1.5038	1.5038
11	1.4225	1.4225
12	1.4117	1.4117
13	1.4065	1.4065
14	1.4003	1.4003
15	1.3918	1.3918
16	1.3398	1.3398
17	1.3333	1.3333
18	1.3263	1.3263
19	1.3218	1.3218
20	1.3082	1.3082
21	1.3046	1.3046
22	1.2715	1.2715
23	1.2702	1.2702
24	1.2510	1.2510
25	1.2503	1.2503
26	1.2320	1.2320
27	1.2226	1.2226
28	1.2175	1.2175
29	1.2110	1.2110
30	1.2036	1.2036
31	1.1867	1.1867
32	1.1819	1.1819
33	1.1588	1.1588
34	1.1568	1.1568
35	1.1473	1.1473
36	1.1417	1.1417
37	1.1388	1.1388
38	1.1033	1.1033
39	1.1028	1.1028
40	1.0609	1.0609
41	1.0602	1.0602
42	1.0424	1.0424
43	1.0301	1.0301
44	1.0260	1.0260
45	0.9895	0.9895
46	0.9457	0.9457
47	0.9306	0.9306
48	0.9018	0.9018
49	0.8738	0.8738
50	0.8650	0.8650
51	0.8431	0.8431
52	0.8197	0.8197
53	0.7763	0.7763

Stream Protection Duration**POC #12****The Facility PASSED****The Facility PASSED.**

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.6063	1246	1246	100	Pass
0.6181	1162	1162	100	Pass
0.6298	1079	1079	100	Pass
0.6416	1012	1012	100	Pass
0.6533	943	943	100	Pass
0.6651	880	880	100	Pass
0.6768	817	817	100	Pass
0.6886	755	755	100	Pass
0.7003	694	694	100	Pass
0.7121	652	652	100	Pass
0.7238	597	597	100	Pass
0.7356	552	552	100	Pass
0.7473	512	512	100	Pass
0.7591	476	476	100	Pass
0.7708	438	438	100	Pass
0.7826	409	409	100	Pass
0.7943	375	375	100	Pass
0.8061	354	354	100	Pass
0.8178	331	331	100	Pass
0.8296	311	311	100	Pass
0.8413	294	294	100	Pass
0.8531	276	276	100	Pass
0.8648	259	259	100	Pass
0.8766	247	247	100	Pass
0.8883	232	232	100	Pass
0.9001	221	221	100	Pass
0.9118	209	209	100	Pass
0.9236	196	196	100	Pass
0.9353	187	187	100	Pass
0.9471	179	179	100	Pass
0.9588	168	168	100	Pass
0.9706	160	160	100	Pass
0.9823	153	153	100	Pass
0.9941	142	142	100	Pass
1.0058	135	135	100	Pass
1.0176	127	127	100	Pass
1.0293	116	116	100	Pass
1.0411	109	109	100	Pass
1.0528	106	106	100	Pass
1.0646	98	98	100	Pass
1.0763	96	96	100	Pass
1.0881	90	90	100	Pass
1.0998	87	87	100	Pass
1.1116	80	80	100	Pass
1.1233	75	75	100	Pass
1.1351	73	73	100	Pass
1.1468	68	68	100	Pass

1.1586	62	62	100	Pass
1.1703	60	60	100	Pass
1.1821	56	56	100	Pass
1.1938	53	53	100	Pass
1.2056	51	51	100	Pass
1.2173	48	48	100	Pass
1.2291	45	45	100	Pass
1.2408	42	42	100	Pass
1.2526	39	39	100	Pass
1.2643	37	37	100	Pass
1.2761	34	34	100	Pass
1.2878	34	34	100	Pass
1.2996	33	33	100	Pass
1.3113	30	30	100	Pass
1.3231	28	28	100	Pass
1.3348	26	26	100	Pass
1.3466	25	25	100	Pass
1.3583	24	24	100	Pass
1.3701	24	24	100	Pass
1.3818	24	24	100	Pass
1.3936	21	21	100	Pass
1.4053	20	20	100	Pass
1.4171	17	17	100	Pass
1.4288	14	14	100	Pass
1.4406	14	14	100	Pass
1.4523	13	13	100	Pass
1.4640	13	13	100	Pass
1.4758	12	12	100	Pass
1.4875	12	12	100	Pass
1.4993	12	12	100	Pass
1.5110	9	9	100	Pass
1.5228	8	8	100	Pass
1.5345	6	6	100	Pass
1.5463	6	6	100	Pass
1.5580	6	6	100	Pass
1.5698	6	6	100	Pass
1.5815	5	5	100	Pass
1.5933	4	4	100	Pass
1.6050	3	3	100	Pass
1.6168	3	3	100	Pass
1.6285	3	3	100	Pass
1.6403	2	2	100	Pass
1.6520	2	2	100	Pass
1.6638	2	2	100	Pass
1.6755	2	2	100	Pass
1.6873	1	1	100	Pass
1.6990	1	1	100	Pass
1.7108	1	1	100	Pass
1.7225	1	1	100	Pass
1.7343	1	1	100	Pass
1.7460	1	1	100	Pass
1.7578	0	0	100	Pass
1.7695	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #12

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 12

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	73.6645	73.6645	100.0	Pass
Feb	56.1642	56.1642	100.0	Pass
Mar	49.8611	49.8611	100.0	Pass
Apr	28.1358	28.1358	100.0	Pass
May	15.6473	15.6473	100.0	Pass
Jun	10.5594	10.5594	100.0	Pass
Jul	5.3247	5.3247	100.0	Pass
Aug	8.0828	8.0828	100.0	Pass
Sep	17.9664	17.9664	100.0	Pass
Oct	42.8997	42.8997	100.0	Pass
Nov	70.8265	70.8265	100.0	Pass
Dec	71.0629	71.0629	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	2.3735	2.3735	100.0	Pass
2	1.8165	1.8165	100.0	Pass
3	2.3976	2.3976	100.0	Pass
4	2.8664	2.8664	100.0	Pass
5	1.9749	1.9749	100.0	Pass
6	3.1441	3.1441	100.0	Pass
7	2.3123	2.3123	100.0	Pass
8	2.3527	2.3527	100.0	Pass
9	2.5591	2.5591	100.0	Pass
10	2.4389	2.4389	100.0	Pass
11	3.0405	3.0405	100.0	Pass
12	2.3016	2.3016	100.0	Pass
13	3.0036	3.0036	100.0	Pass
14	2.9650	2.9650	100.0	Pass
15	2.6737	2.6737	100.0	Pass
16	2.1211	2.1211	100.0	Pass
17	2.0556	2.0556	100.0	Pass
18	1.8108	1.8108	100.0	Pass
19	1.8490	1.8490	100.0	Pass
20	1.1458	1.1458	100.0	Pass
21	2.4976	2.4976	100.0	Pass
22	2.9384	2.9384	100.0	Pass
23	3.2460	3.2460	100.0	Pass
24	2.0921	2.0921	100.0	Pass
25	1.7673	1.7673	100.0	Pass
26	1.5985	1.5985	100.0	Pass
27	2.1334	2.1334	100.0	Pass
28	2.7462	2.7462	100.0	Pass
29	2.0092	2.0092	100.0	Pass
30	2.4556	2.4556	100.0	Pass
31	1.3643	1.3643	100.0	Pass
Feb1	1.6342	1.6342	100.0	Pass

	2	1.5093	1.5093	100.0	Pass
	3	1.3474	1.3474	100.0	Pass
	4	1.2475	1.2475	100.0	Pass
	5	2.4490	2.4490	100.0	Pass
	6	1.0978	1.0978	100.0	Pass
	7	1.7539	1.7539	100.0	Pass
	8	1.2821	1.2821	100.0	Pass
	9	1.6156	1.6156	100.0	Pass
	10	2.1823	2.1823	100.0	Pass
	11	2.8462	2.8462	100.0	Pass
	12	2.1232	2.1232	100.0	Pass
	13	2.3413	2.3413	100.0	Pass
	14	3.3749	3.3749	100.0	Pass
	15	2.2970	2.2970	100.0	Pass
	16	3.1577	3.1577	100.0	Pass
	17	2.7069	2.7069	100.0	Pass
	18	2.0432	2.0432	100.0	Pass
	19	1.7935	1.7935	100.0	Pass
	20	1.7508	1.7508	100.0	Pass
	21	1.4325	1.4325	100.0	Pass
	22	2.2043	2.2043	100.0	Pass
	23	2.0653	2.0653	100.0	Pass
	24	2.2834	2.2834	100.0	Pass
	25	2.0011	2.0011	100.0	Pass
	26	1.9593	1.9593	100.0	Pass
	27	1.7000	1.7000	100.0	Pass
	28	2.1945	2.1945	100.0	Pass
	29	1.6584	1.6584	100.0	Pass
Mar1		1.6487	1.6487	100.0	Pass
	2	1.3168	1.3168	100.0	Pass
	3	1.9619	1.9619	100.0	Pass
	4	2.0338	2.0338	100.0	Pass
	5	1.5586	1.5586	100.0	Pass
	6	2.0007	2.0007	100.0	Pass
	7	1.9875	1.9875	100.0	Pass
	8	1.8992	1.8992	100.0	Pass
	9	1.9039	1.9039	100.0	Pass
	10	1.6275	1.6275	100.0	Pass
	11	1.7969	1.7969	100.0	Pass
	12	1.5796	1.5796	100.0	Pass
	13	1.9543	1.9543	100.0	Pass
	14	1.4996	1.4996	100.0	Pass
	15	1.2051	1.2051	100.0	Pass
	16	1.1883	1.1883	100.0	Pass
	17	1.6522	1.6522	100.0	Pass
	18	0.9493	0.9493	100.0	Pass
	19	1.5392	1.5392	100.0	Pass
	20	1.2032	1.2032	100.0	Pass
	21	2.1317	2.1317	100.0	Pass
	22	2.3655	2.3655	100.0	Pass
	23	1.8616	1.8616	100.0	Pass
	24	1.1116	1.1116	100.0	Pass
	25	1.9016	1.9016	100.0	Pass
	26	1.3070	1.3070	100.0	Pass
	27	1.2923	1.2923	100.0	Pass
	28	1.4498	1.4498	100.0	Pass
	29	1.3297	1.3297	100.0	Pass

30	0.9556	0.9556	100.0	Pass
31	0.7696	0.7696	100.0	Pass
Apr1	0.8568	0.8568	100.0	Pass
2	0.9860	0.9860	100.0	Pass
3	1.4061	1.4061	100.0	Pass
4	1.2276	1.2276	100.0	Pass
5	1.2991	1.2991	100.0	Pass
6	0.6424	0.6424	100.0	Pass
7	1.2035	1.2035	100.0	Pass
8	1.1830	1.1830	100.0	Pass
9	1.0527	1.0527	100.0	Pass
10	1.0209	1.0209	100.0	Pass
11	1.4873	1.4873	100.0	Pass
12	1.2153	1.2153	100.0	Pass
13	1.2887	1.2887	100.0	Pass
14	1.0638	1.0638	100.0	Pass
15	1.1487	1.1487	100.0	Pass
16	0.5794	0.5794	100.0	Pass
17	0.8955	0.8955	100.0	Pass
18	1.0451	1.0451	100.0	Pass
19	0.5015	0.5015	100.0	Pass
20	0.5209	0.5209	100.0	Pass
21	0.9507	0.9507	100.0	Pass
22	0.7695	0.7695	100.0	Pass
23	0.6541	0.6541	100.0	Pass
24	0.5204	0.5204	100.0	Pass
25	0.6621	0.6621	100.0	Pass
26	1.1176	1.1176	100.0	Pass
27	0.8291	0.8291	100.0	Pass
28	0.8690	0.8690	100.0	Pass
29	0.3743	0.3743	100.0	Pass
30	0.5726	0.5726	100.0	Pass
May1	0.9318	0.9318	100.0	Pass
2	0.6304	0.6304	100.0	Pass
3	0.6985	0.6985	100.0	Pass
4	0.5281	0.5281	100.0	Pass
5	0.5192	0.5192	100.0	Pass
6	0.4396	0.4396	100.0	Pass
7	0.6050	0.6050	100.0	Pass
8	0.3445	0.3445	100.0	Pass
9	0.5220	0.5220	100.0	Pass
10	0.4110	0.4110	100.0	Pass
11	0.3898	0.3898	100.0	Pass
12	0.5661	0.5661	100.0	Pass
13	0.6088	0.6088	100.0	Pass
14	0.5954	0.5954	100.0	Pass
15	0.3645	0.3645	100.0	Pass
16	0.5163	0.5163	100.0	Pass
17	0.4075	0.4075	100.0	Pass
18	0.7083	0.7083	100.0	Pass
19	0.3384	0.3384	100.0	Pass
20	0.3476	0.3476	100.0	Pass
21	0.3551	0.3551	100.0	Pass
22	0.4529	0.4529	100.0	Pass
23	0.3843	0.3843	100.0	Pass
24	0.4029	0.4029	100.0	Pass
25	0.3299	0.3299	100.0	Pass

26	0.6061	0.6061	100.0	Pass
27	0.4565	0.4565	100.0	Pass
28	0.5035	0.5035	100.0	Pass
29	0.6892	0.6892	100.0	Pass
30	0.4233	0.4233	100.0	Pass
31	0.4662	0.4662	100.0	Pass
Jun1	0.3336	0.3336	100.0	Pass
2	0.6186	0.6186	100.0	Pass
3	0.5792	0.5792	100.0	Pass
4	0.3975	0.3975	100.0	Pass
5	0.7018	0.7018	100.0	Pass
6	0.2254	0.2254	100.0	Pass
7	0.3853	0.3853	100.0	Pass
8	0.5620	0.5620	100.0	Pass
9	0.4115	0.4115	100.0	Pass
10	0.4008	0.4008	100.0	Pass
11	0.2818	0.2818	100.0	Pass
12	0.3618	0.3618	100.0	Pass
13	0.5821	0.5821	100.0	Pass
14	0.2113	0.2113	100.0	Pass
15	0.4693	0.4693	100.0	Pass
16	0.1814	0.1814	100.0	Pass
17	0.2843	0.2843	100.0	Pass
18	0.1771	0.1771	100.0	Pass
19	0.2348	0.2348	100.0	Pass
20	0.2631	0.2631	100.0	Pass
21	0.2567	0.2567	100.0	Pass
22	0.1308	0.1308	100.0	Pass
23	0.7657	0.7657	100.0	Pass
24	0.1630	0.1630	100.0	Pass
25	0.3201	0.3201	100.0	Pass
26	0.1877	0.1877	100.0	Pass
27	0.1760	0.1760	100.0	Pass
28	0.1840	0.1840	100.0	Pass
29	0.2474	0.2474	100.0	Pass
30	0.5312	0.5312	100.0	Pass
Jul1	0.1128	0.1128	100.0	Pass
2	0.1050	0.1050	100.0	Pass
3	0.1218	0.1218	100.0	Pass
4	0.3139	0.3139	100.0	Pass
5	0.2301	0.2301	100.0	Pass
6	0.1732	0.1732	100.0	Pass
7	0.3316	0.3316	100.0	Pass
8	0.1720	0.1720	100.0	Pass
9	0.3925	0.3925	100.0	Pass
10	0.2441	0.2441	100.0	Pass
11	0.4996	0.4996	100.0	Pass
12	0.2125	0.2125	100.0	Pass
13	0.1654	0.1654	100.0	Pass
14	0.2901	0.2901	100.0	Pass
15	0.1066	0.1066	100.0	Pass
16	0.0682	0.0682	100.0	Pass
17	0.2577	0.2577	100.0	Pass
18	0.0724	0.0724	100.0	Pass
19	0.1009	0.1009	100.0	Pass
20	0.1902	0.1902	100.0	Pass
21	0.1433	0.1433	100.0	Pass

22	0.0043	0.0043	100.0	Pass
23	0.0405	0.0405	100.0	Pass
24	0.0496	0.0496	100.0	Pass
25	0.1148	0.1148	100.0	Pass
26	0.0469	0.0469	100.0	Pass
27	0.0721	0.0721	100.0	Pass
28	0.0586	0.0586	100.0	Pass
29	0.0366	0.0366	100.0	Pass
30	0.0658	0.0658	100.0	Pass
31	0.0765	0.0765	100.0	Pass
Aug1	0.3145	0.3145	100.0	Pass
2	0.0996	0.0996	100.0	Pass
3	0.0332	0.0332	100.0	Pass
4	0.0368	0.0368	100.0	Pass
5	0.3518	0.3518	100.0	Pass
6	0.2263	0.2263	100.0	Pass
7	0.0747	0.0747	100.0	Pass
8	0.0822	0.0822	100.0	Pass
9	0.0031	0.0031	100.0	Pass
10	0.0443	0.0443	100.0	Pass
11	0.2293	0.2293	100.0	Pass
12	0.1935	0.1935	100.0	Pass
13	0.2425	0.2425	100.0	Pass
14	0.1408	0.1408	100.0	Pass
15	0.1220	0.1220	100.0	Pass
16	0.1081	0.1081	100.0	Pass
17	0.2247	0.2247	100.0	Pass
18	0.4360	0.4360	100.0	Pass
19	0.1058	0.1058	100.0	Pass
20	0.3340	0.3340	100.0	Pass
21	0.2983	0.2983	100.0	Pass
22	0.5890	0.5890	100.0	Pass
23	0.5349	0.5349	100.0	Pass
24	0.4334	0.4334	100.0	Pass
25	0.1559	0.1559	100.0	Pass
26	0.5616	0.5616	100.0	Pass
27	0.5601	0.5601	100.0	Pass
28	0.5489	0.5489	100.0	Pass
29	0.3382	0.3382	100.0	Pass
30	0.5829	0.5829	100.0	Pass
31	0.9139	0.9139	100.0	Pass
Sep1	0.3028	0.3028	100.0	Pass
2	0.3334	0.3334	100.0	Pass
3	0.3747	0.3747	100.0	Pass
4	0.4872	0.4872	100.0	Pass
5	0.4112	0.4112	100.0	Pass
6	0.2743	0.2743	100.0	Pass
7	0.5750	0.5750	100.0	Pass
8	0.3461	0.3461	100.0	Pass
9	0.9381	0.9381	100.0	Pass
10	0.1912	0.1912	100.0	Pass
11	0.1718	0.1718	100.0	Pass
12	0.4940	0.4940	100.0	Pass
13	0.9217	0.9217	100.0	Pass
14	0.5567	0.5567	100.0	Pass
15	0.8691	0.8691	100.0	Pass
16	0.8878	0.8878	100.0	Pass

17	0.9878	0.9878	100.0	Pass
18	0.8836	0.8836	100.0	Pass
19	0.9289	0.9289	100.0	Pass
20	0.6447	0.6447	100.0	Pass
21	0.9180	0.9180	100.0	Pass
22	0.7264	0.7264	100.0	Pass
23	0.5751	0.5751	100.0	Pass
24	0.4117	0.4117	100.0	Pass
25	0.4583	0.4583	100.0	Pass
26	0.4634	0.4634	100.0	Pass
27	0.6270	0.6270	100.0	Pass
28	0.5505	0.5505	100.0	Pass
29	0.7437	0.7437	100.0	Pass
30	0.5122	0.5122	100.0	Pass
Oct1	0.3485	0.3485	100.0	Pass
2	0.9781	0.9781	100.0	Pass
3	0.8544	0.8544	100.0	Pass
4	1.0306	1.0306	100.0	Pass
5	1.0878	1.0878	100.0	Pass
6	1.2087	1.2087	100.0	Pass
7	1.5368	1.5368	100.0	Pass
8	1.2114	1.2114	100.0	Pass
9	0.9222	0.9222	100.0	Pass
10	0.7484	0.7484	100.0	Pass
11	1.5262	1.5262	100.0	Pass
12	0.9738	0.9738	100.0	Pass
13	1.4179	1.4179	100.0	Pass
14	0.7384	0.7384	100.0	Pass
15	0.9162	0.9162	100.0	Pass
16	1.2500	1.2500	100.0	Pass
17	1.1289	1.1289	100.0	Pass
18	1.8437	1.8437	100.0	Pass
19	2.2452	2.2452	100.0	Pass
20	1.9172	1.9172	100.0	Pass
21	2.3264	2.3264	100.0	Pass
22	1.2624	1.2624	100.0	Pass
23	2.2600	2.2600	100.0	Pass
24	1.9421	1.9421	100.0	Pass
25	1.7164	1.7164	100.0	Pass
26	2.1282	2.1282	100.0	Pass
27	1.7512	1.7512	100.0	Pass
28	1.6354	1.6354	100.0	Pass
29	1.3568	1.3568	100.0	Pass
30	2.1314	2.1314	100.0	Pass
31	1.7252	1.7252	100.0	Pass
Nov1	2.2161	2.2161	100.0	Pass
2	2.7505	2.7505	100.0	Pass
3	2.0057	2.0057	100.0	Pass
4	2.0906	2.0906	100.0	Pass
5	2.3181	2.3181	100.0	Pass
6	1.8765	1.8765	100.0	Pass
7	1.7054	1.7054	100.0	Pass
8	2.3063	2.3063	100.0	Pass
9	2.7149	2.7149	100.0	Pass
10	2.2647	2.2647	100.0	Pass
11	2.5641	2.5641	100.0	Pass
12	2.3660	2.3660	100.0	Pass

13	1.6688	1.6688	100.0	Pass
14	2.0654	2.0654	100.0	Pass
15	2.3389	2.3389	100.0	Pass
16	2.4474	2.4474	100.0	Pass
17	2.1945	2.1945	100.0	Pass
18	3.3331	3.3331	100.0	Pass
19	2.8880	2.8880	100.0	Pass
20	1.7991	1.7991	100.0	Pass
21	3.0624	3.0624	100.0	Pass
22	3.6818	3.6818	100.0	Pass
23	2.6360	2.6360	100.0	Pass
24	3.0972	3.0972	100.0	Pass
25	1.9010	1.9010	100.0	Pass
26	1.5458	1.5458	100.0	Pass
27	2.0227	2.0227	100.0	Pass
28	1.9226	1.9226	100.0	Pass
29	3.3281	3.3281	100.0	Pass
30	2.5150	2.5150	100.0	Pass
Dec1	2.8323	2.8323	100.0	Pass
2	2.6926	2.6926	100.0	Pass
3	1.6266	1.6266	100.0	Pass
4	1.9114	1.9114	100.0	Pass
5	1.5973	1.5973	100.0	Pass
6	1.4100	1.4100	100.0	Pass
7	2.1464	2.1464	100.0	Pass
8	2.7037	2.7037	100.0	Pass
9	2.6103	2.6103	100.0	Pass
10	2.7995	2.7995	100.0	Pass
11	1.9723	1.9723	100.0	Pass
12	2.1957	2.1957	100.0	Pass
13	3.4162	3.4162	100.0	Pass
14	2.1805	2.1805	100.0	Pass
15	3.0359	3.0359	100.0	Pass
16	1.8910	1.8910	100.0	Pass
17	2.3931	2.3931	100.0	Pass
18	1.9195	1.9195	100.0	Pass
19	2.3533	2.3533	100.0	Pass
20	2.2523	2.2523	100.0	Pass
21	2.4791	2.4791	100.0	Pass
22	2.4527	2.4527	100.0	Pass
23	2.6840	2.6840	100.0	Pass
24	3.0133	3.0133	100.0	Pass
25	2.5020	2.5020	100.0	Pass
26	2.2659	2.2659	100.0	Pass
27	1.4641	1.4641	100.0	Pass
28	2.5357	2.5357	100.0	Pass
29	1.5387	1.5387	100.0	Pass
30	1.6833	1.6833	100.0	Pass
31	2.9882	2.9882	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #13
Total Pervious Area:0.112
Total Impervious Area:0.305

Mitigated Landuse Totals for POC #13
Total Pervious Area:0.112
Total Impervious Area:0.305

Flow Frequency Return Periods for Predeveloped. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.237324
5 year	0.285918
10 year	0.312479
25 year	0.34139
50 year	0.36027
100 year	0.377318

Flow Frequency Return Periods for Mitigated. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.237324
5 year	0.285918
10 year	0.312479
25 year	0.34139
50 year	0.36027
100 year	0.377318

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #13

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.259	0.259
1957	0.311	0.311
1958	0.234	0.234
1959	0.247	0.247
1960	0.258	0.258
1961	0.193	0.193
1962	0.339	0.339
1963	0.307	0.307
1964	0.260	0.260
1965	0.262	0.262
1966	0.261	0.261
1967	0.159	0.159
1968	0.247	0.247
1969	0.239	0.239
1970	0.214	0.214
1971	0.345	0.345
1972	0.295	0.295
1973	0.263	0.263
1974	0.262	0.262
1975	0.228	0.228
1976	0.281	0.281
1977	0.199	0.199
1978	0.347	0.347
1979	0.220	0.220
1980	0.200	0.200

1981	0.254	0.254
1982	0.293	0.293
1983	0.232	0.232
1984	0.221	0.221
1985	0.157	0.157
1986	0.264	0.264
1987	0.183	0.183
1988	0.281	0.281
1989	0.231	0.231
1990	0.310	0.310
1991	0.188	0.188
1992	0.150	0.150
1993	0.166	0.166
1994	0.223	0.223
1995	0.202	0.202
1996	0.249	0.249
1997	0.256	0.256
1998	0.157	0.157
1999	0.202	0.202
2000	0.185	0.185
2001	0.173	0.173
2002	0.257	0.257
2003	0.333	0.333
2004	0.306	0.306
2005	0.238	0.238
2006	0.244	0.244
2007	0.290	0.290
2008	0.144	0.144
2009	0.135	0.135

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #13

Rank	Predeveloped	Mitigated
1	0.3472	0.3472
2	0.3453	0.3453
3	0.3389	0.3389
4	0.3332	0.3332
5	0.3107	0.3107
6	0.3103	0.3103
7	0.3070	0.3070
8	0.3057	0.3057
9	0.2947	0.2947
10	0.2935	0.2935
11	0.2904	0.2904
12	0.2811	0.2811
13	0.2807	0.2807
14	0.2635	0.2635
15	0.2632	0.2632
16	0.2621	0.2621
17	0.2620	0.2620
18	0.2613	0.2613
19	0.2598	0.2598
20	0.2590	0.2590
21	0.2577	0.2577
22	0.2570	0.2570
23	0.2555	0.2555

24	0.2545	0.2545
25	0.2489	0.2489
26	0.2472	0.2472
27	0.2467	0.2467
28	0.2444	0.2444
29	0.2391	0.2391
30	0.2382	0.2382
31	0.2340	0.2340
32	0.2320	0.2320
33	0.2306	0.2306
34	0.2280	0.2280
35	0.2227	0.2227
36	0.2208	0.2208
37	0.2203	0.2203
38	0.2139	0.2139
39	0.2018	0.2018
40	0.2018	0.2018
41	0.2003	0.2003
42	0.1990	0.1990
43	0.1933	0.1933
44	0.1881	0.1881
45	0.1845	0.1845
46	0.1828	0.1828
47	0.1729	0.1729
48	0.1656	0.1656
49	0.1594	0.1594
50	0.1573	0.1573
51	0.1566	0.1566
52	0.1497	0.1497
53	0.1438	0.1438
54	0.1348	0.1348

Stream Protection Duration

POC #13

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.1187	999	999	100	Pass
0.1211	911	911	100	Pass
0.1235	859	859	100	Pass
0.1260	802	802	100	Pass
0.1284	744	744	100	Pass
0.1309	700	700	100	Pass
0.1333	623	623	100	Pass
0.1357	591	591	100	Pass
0.1382	551	551	100	Pass
0.1406	518	518	100	Pass
0.1431	473	473	100	Pass
0.1455	443	443	100	Pass
0.1479	420	420	100	Pass
0.1504	387	387	100	Pass
0.1528	372	372	100	Pass
0.1553	340	340	100	Pass
0.1577	319	319	100	Pass

0.1602	295	295	100	Pass
0.1626	277	277	100	Pass
0.1650	256	256	100	Pass
0.1675	240	240	100	Pass
0.1699	230	230	100	Pass
0.1724	214	214	100	Pass
0.1748	206	206	100	Pass
0.1772	193	193	100	Pass
0.1797	182	182	100	Pass
0.1821	173	173	100	Pass
0.1846	164	164	100	Pass
0.1870	159	159	100	Pass
0.1894	147	147	100	Pass
0.1919	141	141	100	Pass
0.1943	133	133	100	Pass
0.1968	130	130	100	Pass
0.1992	121	121	100	Pass
0.2016	111	111	100	Pass
0.2041	101	101	100	Pass
0.2065	98	98	100	Pass
0.2090	94	94	100	Pass
0.2114	92	92	100	Pass
0.2138	90	90	100	Pass
0.2163	85	85	100	Pass
0.2187	80	80	100	Pass
0.2212	76	76	100	Pass
0.2236	72	72	100	Pass
0.2260	70	70	100	Pass
0.2285	67	67	100	Pass
0.2309	65	65	100	Pass
0.2334	54	54	100	Pass
0.2358	52	52	100	Pass
0.2382	51	51	100	Pass
0.2407	48	48	100	Pass
0.2431	47	47	100	Pass
0.2456	45	45	100	Pass
0.2480	43	43	100	Pass
0.2504	41	41	100	Pass
0.2529	40	40	100	Pass
0.2553	37	37	100	Pass
0.2578	35	35	100	Pass
0.2602	31	31	100	Pass
0.2627	30	30	100	Pass
0.2651	24	24	100	Pass
0.2675	24	24	100	Pass
0.2700	24	24	100	Pass
0.2724	23	23	100	Pass
0.2749	22	22	100	Pass
0.2773	20	20	100	Pass
0.2797	20	20	100	Pass
0.2822	16	16	100	Pass
0.2846	15	15	100	Pass
0.2871	15	15	100	Pass
0.2895	15	15	100	Pass
0.2919	13	13	100	Pass
0.2944	12	12	100	Pass
0.2968	10	10	100	Pass

0.2993	10	10	100	Pass
0.3017	10	10	100	Pass
0.3041	10	10	100	Pass
0.3066	9	9	100	Pass
0.3090	8	8	100	Pass
0.3115	6	6	100	Pass
0.3139	6	6	100	Pass
0.3163	6	6	100	Pass
0.3188	5	5	100	Pass
0.3212	5	5	100	Pass
0.3237	5	5	100	Pass
0.3261	5	5	100	Pass
0.3285	4	4	100	Pass
0.3310	4	4	100	Pass
0.3334	4	4	100	Pass
0.3359	3	3	100	Pass
0.3383	3	3	100	Pass
0.3407	2	2	100	Pass
0.3432	2	2	100	Pass
0.3456	2	2	100	Pass
0.3481	0	0	100	Pass
0.3505	0	0	0	Pass
0.3529	0	0	0	Pass
0.3554	0	0	0	Pass
0.3578	0	0	0	Pass
0.3603	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #13
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 13
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	15.6491	15.6491	100.0	Pass
Feb	11.9978	11.9978	100.0	Pass
Mar	10.6094	10.6094	100.0	Pass
Apr	5.8629	5.8629	100.0	Pass
May	3.0668	3.0668	100.0	Pass
Jun	2.0110	2.0110	100.0	Pass
Jul	0.9824	0.9824	100.0	Pass
Aug	1.4611	1.4611	100.0	Pass
Sep	3.3958	3.3958	100.0	Pass
Oct	8.4913	8.4913	100.0	Pass
Nov	14.7483	14.7483	100.0	Pass
Dec	15.0987	15.0987	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.5011	0.5011	100.0	Pass
2	0.3980	0.3980	100.0	Pass

3	0.5008	0.5008	100.0	Pass
4	0.5842	0.5842	100.0	Pass
5	0.4330	0.4330	100.0	Pass
6	0.6376	0.6376	100.0	Pass
7	0.5029	0.5029	100.0	Pass
8	0.5030	0.5030	100.0	Pass
9	0.5332	0.5332	100.0	Pass
10	0.5212	0.5212	100.0	Pass
11	0.6338	0.6338	100.0	Pass
12	0.5044	0.5044	100.0	Pass
13	0.6276	0.6276	100.0	Pass
14	0.6285	0.6285	100.0	Pass
15	0.5758	0.5758	100.0	Pass
16	0.4776	0.4776	100.0	Pass
17	0.4560	0.4560	100.0	Pass
18	0.4028	0.4028	100.0	Pass
19	0.3993	0.3993	100.0	Pass
20	0.2674	0.2674	100.0	Pass
21	0.4902	0.4902	100.0	Pass
22	0.6001	0.6001	100.0	Pass
23	0.6749	0.6749	100.0	Pass
24	0.4703	0.4703	100.0	Pass
25	0.3989	0.3989	100.0	Pass
26	0.3601	0.3601	100.0	Pass
27	0.4461	0.4461	100.0	Pass
28	0.5655	0.5655	100.0	Pass
29	0.4394	0.4394	100.0	Pass
30	0.5133	0.5133	100.0	Pass
31	0.3169	0.3169	100.0	Pass
Feb1	0.3550	0.3550	100.0	Pass
2	0.3229	0.3229	100.0	Pass
3	0.2930	0.2930	100.0	Pass
4	0.2715	0.2715	100.0	Pass
5	0.4888	0.4888	100.0	Pass
6	0.2583	0.2583	100.0	Pass
7	0.3634	0.3634	100.0	Pass
8	0.2799	0.2799	100.0	Pass
9	0.3316	0.3316	100.0	Pass
10	0.4389	0.4389	100.0	Pass
11	0.5806	0.5806	100.0	Pass
12	0.4622	0.4622	100.0	Pass
13	0.4919	0.4919	100.0	Pass
14	0.6811	0.6811	100.0	Pass
15	0.5085	0.5085	100.0	Pass
16	0.6549	0.6549	100.0	Pass
17	0.5819	0.5819	100.0	Pass
18	0.4659	0.4659	100.0	Pass
19	0.4042	0.4042	100.0	Pass
20	0.3879	0.3879	100.0	Pass
21	0.3179	0.3179	100.0	Pass
22	0.4573	0.4573	100.0	Pass
23	0.4372	0.4372	100.0	Pass
24	0.4810	0.4810	100.0	Pass
25	0.4327	0.4327	100.0	Pass
26	0.4273	0.4273	100.0	Pass
27	0.3753	0.3753	100.0	Pass
28	0.4711	0.4711	100.0	Pass

29	0.3598	0.3598	100.0	Pass
Mar1	0.3532	0.3532	100.0	Pass
2	0.2907	0.2907	100.0	Pass
3	0.4039	0.4039	100.0	Pass
4	0.4241	0.4241	100.0	Pass
5	0.3363	0.3363	100.0	Pass
6	0.4230	0.4230	100.0	Pass
7	0.4132	0.4132	100.0	Pass
8	0.4032	0.4032	100.0	Pass
9	0.4044	0.4044	100.0	Pass
10	0.3546	0.3546	100.0	Pass
11	0.3828	0.3828	100.0	Pass
12	0.3394	0.3394	100.0	Pass
13	0.4092	0.4092	100.0	Pass
14	0.3276	0.3276	100.0	Pass
15	0.2671	0.2671	100.0	Pass
16	0.2559	0.2559	100.0	Pass
17	0.3451	0.3451	100.0	Pass
18	0.2146	0.2146	100.0	Pass
19	0.3152	0.3152	100.0	Pass
20	0.2560	0.2560	100.0	Pass
21	0.4252	0.4252	100.0	Pass
22	0.4780	0.4780	100.0	Pass
23	0.4013	0.4013	100.0	Pass
24	0.2624	0.2624	100.0	Pass
25	0.3923	0.3923	100.0	Pass
26	0.2905	0.2905	100.0	Pass
27	0.2756	0.2756	100.0	Pass
28	0.3090	0.3090	100.0	Pass
29	0.2828	0.2828	100.0	Pass
30	0.2138	0.2138	100.0	Pass
31	0.1722	0.1722	100.0	Pass
Apr1	0.1825	0.1825	100.0	Pass
2	0.2041	0.2041	100.0	Pass
3	0.2771	0.2771	100.0	Pass
4	0.2539	0.2539	100.0	Pass
5	0.2748	0.2748	100.0	Pass
6	0.1504	0.1504	100.0	Pass
7	0.2423	0.2423	100.0	Pass
8	0.2460	0.2460	100.0	Pass
9	0.2176	0.2176	100.0	Pass
10	0.2168	0.2168	100.0	Pass
11	0.2929	0.2929	100.0	Pass
12	0.2542	0.2542	100.0	Pass
13	0.2642	0.2642	100.0	Pass
14	0.2267	0.2267	100.0	Pass
15	0.2427	0.2427	100.0	Pass
16	0.1371	0.1371	100.0	Pass
17	0.1844	0.1844	100.0	Pass
18	0.2114	0.2114	100.0	Pass
19	0.1172	0.1172	100.0	Pass
20	0.1118	0.1118	100.0	Pass
21	0.1857	0.1857	100.0	Pass
22	0.1555	0.1555	100.0	Pass
23	0.1369	0.1369	100.0	Pass
24	0.1106	0.1106	100.0	Pass
25	0.1319	0.1319	100.0	Pass

26	0.2211	0.2211	100.0	Pass
27	0.1726	0.1726	100.0	Pass
28	0.1803	0.1803	100.0	Pass
29	0.0891	0.0891	100.0	Pass
30	0.1156	0.1156	100.0	Pass
May1	0.1779	0.1779	100.0	Pass
2	0.1308	0.1308	100.0	Pass
3	0.1389	0.1389	100.0	Pass
4	0.1104	0.1104	100.0	Pass
5	0.1058	0.1058	100.0	Pass
6	0.0893	0.0893	100.0	Pass
7	0.1179	0.1179	100.0	Pass
8	0.0729	0.0729	100.0	Pass
9	0.1010	0.1010	100.0	Pass
10	0.0810	0.0810	100.0	Pass
11	0.0760	0.0760	100.0	Pass
12	0.1085	0.1085	100.0	Pass
13	0.1166	0.1166	100.0	Pass
14	0.1140	0.1140	100.0	Pass
15	0.0771	0.0771	100.0	Pass
16	0.0990	0.0990	100.0	Pass
17	0.0814	0.0814	100.0	Pass
18	0.1309	0.1309	100.0	Pass
19	0.0696	0.0696	100.0	Pass
20	0.0673	0.0673	100.0	Pass
21	0.0688	0.0688	100.0	Pass
22	0.0841	0.0841	100.0	Pass
23	0.0743	0.0743	100.0	Pass
24	0.0780	0.0780	100.0	Pass
25	0.0654	0.0654	100.0	Pass
26	0.1132	0.1132	100.0	Pass
27	0.0891	0.0891	100.0	Pass
28	0.0962	0.0962	100.0	Pass
29	0.1313	0.1313	100.0	Pass
30	0.0853	0.0853	100.0	Pass
31	0.0930	0.0930	100.0	Pass
Jun1	0.0703	0.0703	100.0	Pass
2	0.1142	0.1142	100.0	Pass
3	0.1082	0.1082	100.0	Pass
4	0.0780	0.0780	100.0	Pass
5	0.1300	0.1300	100.0	Pass
6	0.0498	0.0498	100.0	Pass
7	0.0758	0.0758	100.0	Pass
8	0.1065	0.1065	100.0	Pass
9	0.0802	0.0802	100.0	Pass
10	0.0758	0.0758	100.0	Pass
11	0.0551	0.0551	100.0	Pass
12	0.0668	0.0668	100.0	Pass
13	0.1067	0.1067	100.0	Pass
14	0.0443	0.0443	100.0	Pass
15	0.0876	0.0876	100.0	Pass
16	0.0389	0.0389	100.0	Pass
17	0.0545	0.0545	100.0	Pass
18	0.0373	0.0373	100.0	Pass
19	0.0438	0.0438	100.0	Pass
20	0.0476	0.0476	100.0	Pass
21	0.0479	0.0479	100.0	Pass

	22	0.0263	0.0263	100.0	Pass
	23	0.1334	0.1334	100.0	Pass
	24	0.0366	0.0366	100.0	Pass
	25	0.0595	0.0595	100.0	Pass
	26	0.0355	0.0355	100.0	Pass
	27	0.0319	0.0319	100.0	Pass
	28	0.0328	0.0328	100.0	Pass
	29	0.0432	0.0432	100.0	Pass
	30	0.0941	0.0941	100.0	Pass
Jul	1	0.0238	0.0238	100.0	Pass
	2	0.0202	0.0202	100.0	Pass
	3	0.0218	0.0218	100.0	Pass
	4	0.0530	0.0530	100.0	Pass
	5	0.0397	0.0397	100.0	Pass
	6	0.0301	0.0301	100.0	Pass
	7	0.0586	0.0586	100.0	Pass
	8	0.0334	0.0334	100.0	Pass
	9	0.0694	0.0694	100.0	Pass
	10	0.0454	0.0454	100.0	Pass
	11	0.0933	0.0933	100.0	Pass
	12	0.0484	0.0484	100.0	Pass
	13	0.0354	0.0354	100.0	Pass
	14	0.0539	0.0539	100.0	Pass
	15	0.0217	0.0217	100.0	Pass
	16	0.0137	0.0137	100.0	Pass
	17	0.0461	0.0461	100.0	Pass
	18	0.0158	0.0158	100.0	Pass
	19	0.0192	0.0192	100.0	Pass
	20	0.0334	0.0334	100.0	Pass
	21	0.0267	0.0267	100.0	Pass
	22	0.0026	0.0026	100.0	Pass
	23	0.0076	0.0076	100.0	Pass
	24	0.0087	0.0087	100.0	Pass
	25	0.0193	0.0193	100.0	Pass
	26	0.0079	0.0079	100.0	Pass
	27	0.0121	0.0121	100.0	Pass
	28	0.0100	0.0100	100.0	Pass
	29	0.0064	0.0064	100.0	Pass
	30	0.0111	0.0111	100.0	Pass
	31	0.0129	0.0129	100.0	Pass
Aug	1	0.0530	0.0530	100.0	Pass
	2	0.0186	0.0186	100.0	Pass
	3	0.0071	0.0071	100.0	Pass
	4	0.0071	0.0071	100.0	Pass
	5	0.0604	0.0604	100.0	Pass
	6	0.0406	0.0406	100.0	Pass
	7	0.0147	0.0147	100.0	Pass
	8	0.0149	0.0149	100.0	Pass
	9	0.0012	0.0012	100.0	Pass
	10	0.0078	0.0078	100.0	Pass
	11	0.0386	0.0386	100.0	Pass
	12	0.0330	0.0330	100.0	Pass
	13	0.0417	0.0417	100.0	Pass
	14	0.0258	0.0258	100.0	Pass
	15	0.0233	0.0233	100.0	Pass
	16	0.0197	0.0197	100.0	Pass
	17	0.0382	0.0382	100.0	Pass

18	0.0738	0.0738	100.0	Pass
19	0.0209	0.0209	100.0	Pass
20	0.0574	0.0574	100.0	Pass
21	0.0532	0.0532	100.0	Pass
22	0.1033	0.1033	100.0	Pass
23	0.0977	0.0977	100.0	Pass
24	0.0859	0.0859	100.0	Pass
25	0.0354	0.0354	100.0	Pass
26	0.1001	0.1001	100.0	Pass
27	0.1026	0.1026	100.0	Pass
28	0.1034	0.1034	100.0	Pass
29	0.0653	0.0653	100.0	Pass
30	0.1039	0.1039	100.0	Pass
31	0.1656	0.1656	100.0	Pass
Sep1	0.0663	0.0663	100.0	Pass
2	0.0668	0.0668	100.0	Pass
3	0.0715	0.0715	100.0	Pass
4	0.0891	0.0891	100.0	Pass
5	0.0765	0.0765	100.0	Pass
6	0.0527	0.0527	100.0	Pass
7	0.1012	0.1012	100.0	Pass
8	0.0652	0.0652	100.0	Pass
9	0.1643	0.1643	100.0	Pass
10	0.0399	0.0399	100.0	Pass
11	0.0332	0.0332	100.0	Pass
12	0.0868	0.0868	100.0	Pass
13	0.1634	0.1634	100.0	Pass
14	0.1054	0.1054	100.0	Pass
15	0.1585	0.1585	100.0	Pass
16	0.1701	0.1701	100.0	Pass
17	0.1842	0.1842	100.0	Pass
18	0.1661	0.1661	100.0	Pass
19	0.1785	0.1785	100.0	Pass
20	0.1321	0.1321	100.0	Pass
21	0.1816	0.1816	100.0	Pass
22	0.1461	0.1461	100.0	Pass
23	0.1150	0.1150	100.0	Pass
24	0.0826	0.0826	100.0	Pass
25	0.0865	0.0865	100.0	Pass
26	0.0874	0.0874	100.0	Pass
27	0.1196	0.1196	100.0	Pass
28	0.1036	0.1036	100.0	Pass
29	0.1365	0.1365	100.0	Pass
30	0.1000	0.1000	100.0	Pass
Oct1	0.0706	0.0706	100.0	Pass
2	0.1745	0.1745	100.0	Pass
3	0.1567	0.1567	100.0	Pass
4	0.1924	0.1924	100.0	Pass
5	0.2048	0.2048	100.0	Pass
6	0.2261	0.2261	100.0	Pass
7	0.2899	0.2899	100.0	Pass
8	0.2379	0.2379	100.0	Pass
9	0.1856	0.1856	100.0	Pass
10	0.1519	0.1519	100.0	Pass
11	0.2828	0.2828	100.0	Pass
12	0.1926	0.1926	100.0	Pass
13	0.2658	0.2658	100.0	Pass

14	0.1553	0.1553	100.0	Pass
15	0.1812	0.1812	100.0	Pass
16	0.2438	0.2438	100.0	Pass
17	0.2234	0.2234	100.0	Pass
18	0.3565	0.3565	100.0	Pass
19	0.4406	0.4406	100.0	Pass
20	0.3814	0.3814	100.0	Pass
21	0.4602	0.4602	100.0	Pass
22	0.2769	0.2769	100.0	Pass
23	0.4481	0.4481	100.0	Pass
24	0.3952	0.3952	100.0	Pass
25	0.3546	0.3546	100.0	Pass
26	0.4272	0.4272	100.0	Pass
27	0.3659	0.3659	100.0	Pass
28	0.3403	0.3403	100.0	Pass
29	0.2890	0.2890	100.0	Pass
30	0.4211	0.4211	100.0	Pass
31	0.3592	0.3592	100.0	Pass
Nov1	0.4510	0.4510	100.0	Pass
2	0.5416	0.5416	100.0	Pass
3	0.4282	0.4282	100.0	Pass
4	0.4313	0.4313	100.0	Pass
5	0.4764	0.4764	100.0	Pass
6	0.4014	0.4014	100.0	Pass
7	0.3635	0.3635	100.0	Pass
8	0.4638	0.4638	100.0	Pass
9	0.5485	0.5485	100.0	Pass
10	0.4730	0.4730	100.0	Pass
11	0.5273	0.5273	100.0	Pass
12	0.4879	0.4879	100.0	Pass
13	0.3707	0.3707	100.0	Pass
14	0.4284	0.4284	100.0	Pass
15	0.4806	0.4806	100.0	Pass
16	0.5016	0.5016	100.0	Pass
17	0.4607	0.4607	100.0	Pass
18	0.6724	0.6724	100.0	Pass
19	0.6058	0.6058	100.0	Pass
20	0.4066	0.4066	100.0	Pass
21	0.6280	0.6280	100.0	Pass
22	0.7389	0.7389	100.0	Pass
23	0.5713	0.5713	100.0	Pass
24	0.6498	0.6498	100.0	Pass
25	0.4357	0.4357	100.0	Pass
26	0.3540	0.3540	100.0	Pass
27	0.4233	0.4233	100.0	Pass
28	0.4042	0.4042	100.0	Pass
29	0.6644	0.6644	100.0	Pass
30	0.5373	0.5373	100.0	Pass
Dec1	0.5906	0.5906	100.0	Pass
2	0.5744	0.5744	100.0	Pass
3	0.3730	0.3730	100.0	Pass
4	0.4088	0.4088	100.0	Pass
5	0.3531	0.3531	100.0	Pass
6	0.3051	0.3051	100.0	Pass
7	0.4345	0.4345	100.0	Pass
8	0.5455	0.5455	100.0	Pass
9	0.5445	0.5445	100.0	Pass

10	0.5885	0.5885	100.0	Pass
11	0.4327	0.4327	100.0	Pass
12	0.4658	0.4658	100.0	Pass
13	0.6862	0.6862	100.0	Pass
14	0.4848	0.4848	100.0	Pass
15	0.6257	0.6257	100.0	Pass
16	0.4287	0.4287	100.0	Pass
17	0.5053	0.5053	100.0	Pass
18	0.4176	0.4176	100.0	Pass
19	0.4858	0.4858	100.0	Pass
20	0.4785	0.4785	100.0	Pass
21	0.5267	0.5267	100.0	Pass
22	0.5177	0.5177	100.0	Pass
23	0.5616	0.5616	100.0	Pass
24	0.6202	0.6202	100.0	Pass
25	0.5433	0.5433	100.0	Pass
26	0.4960	0.4960	100.0	Pass
27	0.3357	0.3357	100.0	Pass
28	0.5208	0.5208	100.0	Pass
29	0.3497	0.3497	100.0	Pass
30	0.3615	0.3615	100.0	Pass
31	0.6033	0.6033	100.0	Pass

Perlnd and Implnd Changes

No changes have been made.

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Adams Street Basin WWHM Modeling Report (2)

WWHM2012 PROJECT REPORT

Project Name: Adam's street pump station basin 2
Site Name: 10th street basin
Site Address:
City :
Report Date: 9/5/2019
Gage : Montesano
Data Start : 1955/10/01
Data End : 2009/09/30
Precip Scale: 1.00
Version : 2013/09/11

Low Flow Threshold for POC 1 : 50 Percent of the 2 Year

High Flow Threshold for POC 1: 50 year

Low Flow Threshold for POC 2 : 50 Percent of the 2 Year

High Flow Threshold for POC 2: 50 year

Low Flow Threshold for POC 3 : 50 Percent of the 2 Year

High Flow Threshold for POC 3: 50 year

Low Flow Threshold for POC 4 : 50 Percent of the 2 Year

High Flow Threshold for POC 4: 50 year

Low Flow Threshold for POC 5 : 50 Percent of the 2 Year

High Flow Threshold for POC 5: 50 year

Low Flow Threshold for POC 6 : 50 Percent of the 2 Year

High Flow Threshold for POC 6: 50 year

Low Flow Threshold for POC 7 : 50 Percent of the 2 Year

High Flow Threshold for POC 7: 50 year

Low Flow Threshold for POC 8 : 50 Percent of the 2 Year

High Flow Threshold for POC 8: 50 year

Low Flow Threshold for POC 9 : 50 Percent of the 2 Year

High Flow Threshold for POC 9: 50 year

Low Flow Threshold for POC 10 : 50 Percent of the 2 Year

High Flow Threshold for POC 10: 50 year

Low Flow Threshold for POC 11 : 50 Percent of the 2 Year

High Flow Threshold for POC 11: 50 year

Low Flow Threshold for POC 12 : 50 Percent of the 2 Year

High Flow Threshold for POC 12: 50 year

Low Flow Threshold for POC 13 : 50 Percent of the 2 Year

High Flow Threshold for POC 13: 50 year

Low Flow Threshold for POC 14 : 50 Percent of the 2 Year

High Flow Threshold for POC 14: 50 year

Low Flow Threshold for POC 15 : 50 Percent of the 2 Year

High Flow Threshold for POC 15: 50 year

PREDEVELOPED LAND USE

Name : NODE 11

Bypass: No

GroundWater: No

Pervious Land Use

Acres

C, Forest, Steep	3.987
C, Lawn, Mod	.774
Pervious Total	4.761
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.715
Impervious Total	0.715
Basin Total	5.476

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 12

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.148
Pervious Total	0.148
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.273
Impervious Total	0.273
Basin Total	0.421

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 13

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.109
Pervious Total	0.109

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.232
Impervious Total	0.232
Basin Total	0.341

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 14
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.293
Pervious Total	0.293

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.622
Impervious Total	0.622
Basin Total	0.915

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 15A
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.109
Pervious Total	0.109

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.232
Impervious Total	0.232

Basin Total 0.341

Element Flows To:
Surface Interflow Groundwater

Name : NODE 15B

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.109
Pervious Total	0.109
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.232
Impervious Total	0.232
Basin Total	0.341

Element Flows To:
Surface Interflow Groundwater

Name : NODE 16A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.057
Pervious Total	0.057
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.156
Impervious Total	0.156
Basin Total	0.213

Element Flows To:
Surface Interflow Groundwater

Name : NODE 16B
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.057
Pervious Total	0.057
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.156
Impervious Total	0.156
Basin Total	0.213

Element Flows To:
Surface Interflow Groundwater

Name : SD 9
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.007
Pervious Total	0.007
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.034
Impervious Total	0.034
Basin Total	0.041

Element Flows To:
Surface Interflow Groundwater

Name : CBSD 22
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	2.073
C, Forest, Steep	1.297

Pervious Total 3.37

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.362

Impervious Total 2.362

Basin Total 5.732

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 6
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.312

Pervious Total 0.312

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.468

Impervious Total 0.468

Basin Total 0.78

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 7
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.465
Pervious Total	0.465
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.643
Impervious Total	0.643
Basin Total	1.108

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 8

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.127
Pervious Total	0.127
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.27
Impervious Total	0.27
Basin Total	0.397

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 9

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.159

Pervious Total	0.159
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.338
Impervious Total	0.338
Basin Total	0.497

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 10
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.083
Pervious Total	0.083
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.114
Impervious Total	0.114
Basin Total	0.197

Element Flows To:		
Surface	Interflow	Groundwater

MITIGATED LAND USE

Name : NODE 11
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Forest, Steep	3.987
C, Lawn, Mod	.774
Pervious Total	4.761

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.715
Impervious Total	0.715
Basin Total	5.476

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 12
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.148
Pervious Total	0.148

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.273
Impervious Total	0.273
Basin Total	0.421

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 13
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.109
Pervious Total	0.109

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.232
Impervious Total	0.232

Basin Total 0.341

Element Flows To:
Surface Interflow Groundwater

Name : NODE 14
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.293
Pervious Total	0.293
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.622
Impervious Total	0.622
Basin Total	0.915

Element Flows To:
Surface Interflow Groundwater

Name : NODE 15A
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.109
Pervious Total	0.109
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.232
Impervious Total	0.232
Basin Total	0.341

Element Flows To:
Surface Interflow Groundwater

Name : NODE 15B

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.109
Pervious Total	0.109
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.232
Impervious Total	0.232
Basin Total	0.341

Element Flows To:
Surface Interflow Groundwater

Name : NODE 16A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.057
Pervious Total	0.057
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.156
Impervious Total	0.156
Basin Total	0.213

Element Flows To:
Surface Interflow Groundwater

Name : NODE 16B
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.057
Pervious Total	0.057
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.156
Impervious Total	0.156
Basin Total	0.213

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD 9
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.007
Pervious Total	0.007
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.034
Impervious Total	0.034
Basin Total	0.041

Element Flows To:		
Surface	Interflow	Groundwater

Name : CBSD 22
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	2.073
C, Forest, Steep	1.297
Pervious Total	3.37
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.362
Impervious Total	2.362
Basin Total	5.732

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 6

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.312
Pervious Total	0.312
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.468
Impervious Total	0.468
Basin Total	0.78

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 7

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.465

Pervious Total	0.465
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.643
Impervious Total	0.643
Basin Total	1.108

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 8
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.127
Pervious Total	0.127
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.27
Impervious Total	0.27
Basin Total	0.397

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE 9
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.159
Pervious Total	0.159
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.338

Impervious Total 0.338
Basin Total 0.497

Element Flows To:
Surface Interflow Groundwater

Name : NODE 10
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.083
Pervious Total	0.083
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.114
Impervious Total	0.114
Basin Total	0.197

Element Flows To:
Surface Interflow Groundwater

ANALYSIS RESULTS

Stream Protection Duration

Predeveloped Landuse Totals for POC #1
Total Pervious Area:4.761
Total Impervious Area:0.715

Mitigated Landuse Totals for POC #1
Total Pervious Area:4.761
Total Impervious Area:0.715

Flow Frequency Return Periods for Predeveloped. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.315791
5 year	1.776673
10 year	2.057461
25 year	2.387818
50 year	2.618234
100 year	2.836782

Flow Frequency Return Periods for Mitigated. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.315791
5 year	1.776673
10 year	2.057461
25 year	2.387818
50 year	2.618234
100 year	2.836782

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #1

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.627	1.627
1957	2.066	2.066
1958	1.308	1.308
1959	1.274	1.274
1960	1.507	1.507
1961	1.050	1.050
1962	2.369	2.369
1963	2.245	2.245
1964	1.290	1.290
1965	1.654	1.654
1966	1.535	1.535
1967	0.835	0.835
1968	1.388	1.388
1969	2.246	2.246
1970	1.032	1.032
1971	2.062	2.062
1972	2.089	2.089
1973	1.786	1.786
1974	1.737	1.737
1975	1.211	1.211
1976	1.712	1.712
1977	0.951	0.951
1978	2.142	2.142
1979	1.338	1.338
1980	1.086	1.086
1981	1.657	1.657
1982	1.518	1.518
1983	1.549	1.549
1984	1.129	1.129
1985	0.679	0.679
1986	1.649	1.649
1987	1.057	1.057
1988	1.534	1.534
1989	1.165	1.165
1990	2.015	2.015

1991	1.531	1.531
1992	0.777	0.777
1993	0.673	0.673
1994	1.124	1.124
1995	0.807	0.807
1996	0.879	0.879
1997	1.488	1.488
1998	0.686	0.686
1999	1.098	1.098
2000	1.039	1.039
2001	0.545	0.545
2002	1.009	1.009
2003	2.130	2.130
2004	1.592	1.592
2005	1.044	1.044
2006	1.504	1.504
2007	1.678	1.678
2008	0.659	0.659
2009	0.647	0.647

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	2.3695	2.3695
2	2.2456	2.2456
3	2.2445	2.2445
4	2.1415	2.1415
5	2.1305	2.1305
6	2.0892	2.0892
7	2.0658	2.0658
8	2.0618	2.0618
9	2.0154	2.0154
10	1.7859	1.7859
11	1.7368	1.7368
12	1.7118	1.7118
13	1.6777	1.6777
14	1.6567	1.6567
15	1.6538	1.6538
16	1.6494	1.6494
17	1.6273	1.6273
18	1.5918	1.5918
19	1.5494	1.5494
20	1.5351	1.5351
21	1.5341	1.5341
22	1.5310	1.5310
23	1.5183	1.5183
24	1.5074	1.5074
25	1.5044	1.5044
26	1.4876	1.4876
27	1.3883	1.3883
28	1.3382	1.3382
29	1.3077	1.3077
30	1.2897	1.2897
31	1.2745	1.2745
32	1.2109	1.2109
33	1.1646	1.1646

34	1.1288	1.1288
35	1.1244	1.1244
36	1.0983	1.0983
37	1.0862	1.0862
38	1.0567	1.0567
39	1.0501	1.0501
40	1.0442	1.0442
41	1.0388	1.0388
42	1.0322	1.0322
43	1.0094	1.0094
44	0.9509	0.9509
45	0.8788	0.8788
46	0.8346	0.8346
47	0.8075	0.8075
48	0.7765	0.7765
49	0.6864	0.6864
50	0.6790	0.6790
51	0.6735	0.6735
52	0.6590	0.6590
53	0.6472	0.6472
54	0.5455	0.5455

Stream Protection Duration

POC #1

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.6579	896	896	100	Pass
0.6777	782	782	100	Pass
0.6975	681	681	100	Pass
0.7173	602	602	100	Pass
0.7371	536	536	100	Pass
0.7569	480	480	100	Pass
0.7767	433	433	100	Pass
0.7965	390	390	100	Pass
0.8163	361	361	100	Pass
0.8361	319	319	100	Pass
0.8559	284	284	100	Pass
0.8757	256	256	100	Pass
0.8955	237	237	100	Pass
0.9153	222	222	100	Pass
0.9351	202	202	100	Pass
0.9549	185	185	100	Pass
0.9747	176	176	100	Pass
0.9945	165	165	100	Pass
1.0143	149	149	100	Pass
1.0341	139	139	100	Pass
1.0539	129	129	100	Pass
1.0737	118	118	100	Pass
1.0935	108	108	100	Pass
1.1133	102	102	100	Pass
1.1331	95	95	100	Pass
1.1529	88	88	100	Pass
1.1727	82	82	100	Pass

1.1925	80	80	100	Pass
1.2123	74	74	100	Pass
1.2321	72	72	100	Pass
1.2519	70	70	100	Pass
1.2717	68	68	100	Pass
1.2915	62	62	100	Pass
1.3113	58	58	100	Pass
1.3311	56	56	100	Pass
1.3509	52	52	100	Pass
1.3707	49	49	100	Pass
1.3905	46	46	100	Pass
1.4103	46	46	100	Pass
1.4302	45	45	100	Pass
1.4500	43	43	100	Pass
1.4698	41	41	100	Pass
1.4896	40	40	100	Pass
1.5094	36	36	100	Pass
1.5292	35	35	100	Pass
1.5490	32	32	100	Pass
1.5688	30	30	100	Pass
1.5886	29	29	100	Pass
1.6084	25	25	100	Pass
1.6282	23	23	100	Pass
1.6480	22	22	100	Pass
1.6678	19	19	100	Pass
1.6876	18	18	100	Pass
1.7074	16	16	100	Pass
1.7272	15	15	100	Pass
1.7470	12	12	100	Pass
1.7668	12	12	100	Pass
1.7866	11	11	100	Pass
1.8064	11	11	100	Pass
1.8262	11	11	100	Pass
1.8460	11	11	100	Pass
1.8658	11	11	100	Pass
1.8856	11	11	100	Pass
1.9054	11	11	100	Pass
1.9252	11	11	100	Pass
1.9450	11	11	100	Pass
1.9648	11	11	100	Pass
1.9846	11	11	100	Pass
2.0044	11	11	100	Pass
2.0242	8	8	100	Pass
2.0440	8	8	100	Pass
2.0638	7	7	100	Pass
2.0836	6	6	100	Pass
2.1034	5	5	100	Pass
2.1232	5	5	100	Pass
2.1430	3	3	100	Pass
2.1628	3	3	100	Pass
2.1826	3	3	100	Pass
2.2024	3	3	100	Pass
2.2222	3	3	100	Pass
2.2420	3	3	100	Pass
2.2618	1	1	100	Pass
2.2816	1	1	100	Pass
2.3014	1	1	100	Pass

2.3212	1	1	100	Pass
2.3410	1	1	100	Pass
2.3608	1	1	100	Pass
2.3806	0	0	100	Pass
2.4004	0	0	0	Pass
2.4202	0	0	0	Pass
2.4400	0	0	0	Pass
2.4598	0	0	0	Pass
2.4796	0	0	0	Pass
2.4994	0	0	0	Pass
2.5192	0	0	0	Pass
2.5390	0	0	0	Pass
2.5588	0	0	0	Pass
2.5786	0	0	0	Pass
2.5984	0	0	0	Pass
2.6182	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #1
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 1

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	153.7900	153.7900	100.0	Pass
Feb	120.1834	120.1834	100.0	Pass
Mar	104.4902	104.4902	100.0	Pass
Apr	53.4466	53.4466	100.0	Pass
May	20.7076	20.7076	100.0	Pass
Jun	11.1343	11.1343	100.0	Pass
Jul	3.8977	3.8977	100.0	Pass
Aug	4.2691	4.2691	100.0	Pass
Sep	13.3780	13.3780	100.0	Pass
Oct	50.4972	50.4972	100.0	Pass
Nov	124.4988	124.4988	100.0	Pass
Dec	143.5879	143.5879	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	5.0269	5.0269	100.0	Pass
2	4.1320	4.1320	100.0	Pass
3	4.6436	4.6436	100.0	Pass
4	5.1620	5.1620	100.0	Pass
5	4.5247	4.5247	100.0	Pass
6	5.4506	5.4506	100.0	Pass
7	5.1377	5.1377	100.0	Pass
8	4.8655	4.8655	100.0	Pass
9	4.8367	4.8367	100.0	Pass
10	5.1730	5.1730	100.0	Pass
11	5.9032	5.9032	100.0	Pass
12	5.5746	5.5746	100.0	Pass

13	5.9476	5.9476	100.0	Pass
14	6.2560	6.2560	100.0	Pass
15	5.9157	5.9157	100.0	Pass
16	5.3548	5.3548	100.0	Pass
17	4.9804	4.9804	100.0	Pass
18	4.3262	4.3262	100.0	Pass
19	3.9888	3.9888	100.0	Pass
20	2.9702	2.9702	100.0	Pass
21	3.6124	3.6124	100.0	Pass
22	5.5277	5.5277	100.0	Pass
23	6.5037	6.5037	100.0	Pass
24	5.5675	5.5675	100.0	Pass
25	4.3853	4.3853	100.0	Pass
26	3.8920	3.8920	100.0	Pass
27	4.0864	4.0864	100.0	Pass
28	5.2137	5.2137	100.0	Pass
29	4.8175	4.8175	100.0	Pass
30	4.7418	4.7418	100.0	Pass
31	3.6946	3.6946	100.0	Pass
Feb1	3.5298	3.5298	100.0	Pass
2	3.1120	3.1120	100.0	Pass
3	2.9295	2.9295	100.0	Pass
4	2.7357	2.7357	100.0	Pass
5	4.0346	4.0346	100.0	Pass
6	3.3096	3.3096	100.0	Pass
7	3.3192	3.3192	100.0	Pass
8	2.7912	2.7912	100.0	Pass
9	2.8469	2.8469	100.0	Pass
10	3.7789	3.7789	100.0	Pass
11	5.4672	5.4672	100.0	Pass
12	4.9540	4.9540	100.0	Pass
13	4.6978	4.6978	100.0	Pass
14	5.9382	5.9382	100.0	Pass
15	5.6746	5.6746	100.0	Pass
16	6.1401	6.1401	100.0	Pass
17	5.9134	5.9134	100.0	Pass
18	5.4652	5.4652	100.0	Pass
19	4.3240	4.3240	100.0	Pass
20	4.1717	4.1717	100.0	Pass
21	3.2656	3.2656	100.0	Pass
22	4.2117	4.2117	100.0	Pass
23	4.4583	4.4583	100.0	Pass
24	4.8442	4.8442	100.0	Pass
25	4.4704	4.4704	100.0	Pass
26	4.7279	4.7279	100.0	Pass
27	4.1037	4.1037	100.0	Pass
28	4.6187	4.6187	100.0	Pass
29	3.6437	3.6437	100.0	Pass
Mar1	3.4409	3.4409	100.0	Pass
2	3.0318	3.0318	100.0	Pass
3	3.6163	3.6163	100.0	Pass
4	4.2028	4.2028	100.0	Pass
5	3.3925	3.3925	100.0	Pass
6	4.2813	4.2813	100.0	Pass
7	3.8508	3.8508	100.0	Pass
8	4.0334	4.0334	100.0	Pass
9	4.0037	4.0037	100.0	Pass

10	3.7318	3.7318	100.0	Pass
11	3.8146	3.8146	100.0	Pass
12	3.3517	3.3517	100.0	Pass
13	3.9278	3.9278	100.0	Pass
14	3.3759	3.3759	100.0	Pass
15	2.7229	2.7229	100.0	Pass
16	2.4470	2.4470	100.0	Pass
17	3.2936	3.2936	100.0	Pass
18	2.3901	2.3901	100.0	Pass
19	2.7741	2.7741	100.0	Pass
20	2.4806	2.4806	100.0	Pass
21	3.5815	3.5815	100.0	Pass
22	4.3522	4.3522	100.0	Pass
23	4.3073	4.3073	100.0	Pass
24	3.1471	3.1471	100.0	Pass
25	3.5258	3.5258	100.0	Pass
26	3.1737	3.1737	100.0	Pass
27	2.5574	2.5574	100.0	Pass
28	3.0527	3.0527	100.0	Pass
29	2.7360	2.7360	100.0	Pass
30	2.2590	2.2590	100.0	Pass
31	1.7258	1.7258	100.0	Pass
Apr1	1.6777	1.6777	100.0	Pass
2	1.7887	1.7887	100.0	Pass
3	2.1318	2.1318	100.0	Pass
4	2.3948	2.3948	100.0	Pass
5	2.7536	2.7536	100.0	Pass
6	1.7222	1.7222	100.0	Pass
7	2.0102	2.0102	100.0	Pass
8	2.3499	2.3499	100.0	Pass
9	1.9283	1.9283	100.0	Pass
10	2.1115	2.1115	100.0	Pass
11	2.2409	2.2409	100.0	Pass
12	2.4813	2.4813	100.0	Pass
13	2.2913	2.2913	100.0	Pass
14	2.2578	2.2578	100.0	Pass
15	2.2972	2.2972	100.0	Pass
16	1.5545	1.5545	100.0	Pass
17	1.5486	1.5486	100.0	Pass
18	1.7745	1.7745	100.0	Pass
19	1.3487	1.3487	100.0	Pass
20	0.9930	0.9930	100.0	Pass
21	1.3991	1.3991	100.0	Pass
22	1.2706	1.2706	100.0	Pass
23	1.2374	1.2374	100.0	Pass
24	0.9928	0.9928	100.0	Pass
25	1.0150	1.0150	100.0	Pass
26	1.7169	1.7169	100.0	Pass
27	1.7288	1.7288	100.0	Pass
28	1.7036	1.7036	100.0	Pass
29	1.0066	1.0066	100.0	Pass
30	0.8272	0.8272	100.0	Pass
May1	1.1526	1.1526	100.0	Pass
2	1.1533	1.1533	100.0	Pass
3	1.0182	1.0182	100.0	Pass
4	0.9534	0.9534	100.0	Pass
5	0.8359	0.8359	100.0	Pass

6	0.6838	0.6838	100.0	Pass
7	0.8082	0.8082	100.0	Pass
8	0.6359	0.6359	100.0	Pass
9	0.6563	0.6563	100.0	Pass
10	0.5046	0.5046	100.0	Pass
11	0.4713	0.4713	100.0	Pass
12	0.7728	0.7728	100.0	Pass
13	0.7667	0.7667	100.0	Pass
14	0.7031	0.7031	100.0	Pass
15	0.6514	0.6514	100.0	Pass
16	0.5950	0.5950	100.0	Pass
17	0.5424	0.5424	100.0	Pass
18	0.6985	0.6985	100.0	Pass
19	0.5606	0.5606	100.0	Pass
20	0.3860	0.3860	100.0	Pass
21	0.3989	0.3989	100.0	Pass
22	0.4147	0.4147	100.0	Pass
23	0.4680	0.4680	100.0	Pass
24	0.5097	0.5097	100.0	Pass
25	0.4006	0.4006	100.0	Pass
26	0.6197	0.6197	100.0	Pass
27	0.5734	0.5734	100.0	Pass
28	0.5270	0.5270	100.0	Pass
29	0.8022	0.8022	100.0	Pass
30	0.6187	0.6187	100.0	Pass
31	0.7030	0.7030	100.0	Pass
Jun1	0.6080	0.6080	100.0	Pass
2	0.5595	0.5595	100.0	Pass
3	0.5915	0.5915	100.0	Pass
4	0.5124	0.5124	100.0	Pass
5	0.6333	0.6333	100.0	Pass
6	0.3951	0.3951	100.0	Pass
7	0.5292	0.5292	100.0	Pass
8	0.6437	0.6437	100.0	Pass
9	0.5111	0.5111	100.0	Pass
10	0.4002	0.4002	100.0	Pass
11	0.3043	0.3043	100.0	Pass
12	0.3007	0.3007	100.0	Pass
13	0.5180	0.5180	100.0	Pass
14	0.3192	0.3192	100.0	Pass
15	0.4641	0.4641	100.0	Pass
16	0.3113	0.3113	100.0	Pass
17	0.2740	0.2740	100.0	Pass
18	0.2565	0.2565	100.0	Pass
19	0.1833	0.1833	100.0	Pass
20	0.1734	0.1734	100.0	Pass
21	0.2560	0.2560	100.0	Pass
22	0.1704	0.1704	100.0	Pass
23	0.4485	0.4485	100.0	Pass
24	0.3240	0.3240	100.0	Pass
25	0.2667	0.2667	100.0	Pass
26	0.1527	0.1527	100.0	Pass
27	0.1070	0.1070	100.0	Pass
28	0.1002	0.1002	100.0	Pass
29	0.1189	0.1189	100.0	Pass
30	0.2855	0.2855	100.0	Pass
Jul1	0.1012	0.1012	100.0	Pass

2	0.0677	0.0677	100.0	Pass
3	0.0640	0.0640	100.0	Pass
4	0.1333	0.1333	100.0	Pass
5	0.1185	0.1185	100.0	Pass
6	0.0876	0.0876	100.0	Pass
7	0.2064	0.2064	100.0	Pass
8	0.1549	0.1549	100.0	Pass
9	0.2436	0.2436	100.0	Pass
10	0.1738	0.1738	100.0	Pass
11	0.4686	0.4686	100.0	Pass
12	0.4659	0.4659	100.0	Pass
13	0.2516	0.2516	100.0	Pass
14	0.1983	0.1983	100.0	Pass
15	0.0858	0.0858	100.0	Pass
16	0.0495	0.0495	100.0	Pass
17	0.1563	0.1563	100.0	Pass
18	0.0982	0.0982	100.0	Pass
19	0.0773	0.0773	100.0	Pass
20	0.0983	0.0983	100.0	Pass
21	0.0821	0.0821	100.0	Pass
22	0.0166	0.0166	100.0	Pass
23	0.0231	0.0231	100.0	Pass
24	0.0231	0.0231	100.0	Pass
25	0.0469	0.0469	100.0	Pass
26	0.0199	0.0199	100.0	Pass
27	0.0298	0.0298	100.0	Pass
28	0.0258	0.0258	100.0	Pass
29	0.0175	0.0175	100.0	Pass
30	0.0274	0.0274	100.0	Pass
31	0.0326	0.0326	100.0	Pass
Aug1	0.1316	0.1316	100.0	Pass
2	0.0563	0.0563	100.0	Pass
3	0.0262	0.0262	100.0	Pass
4	0.0221	0.0221	100.0	Pass
5	0.1537	0.1537	100.0	Pass
6	0.1125	0.1125	100.0	Pass
7	0.0485	0.0485	100.0	Pass
8	0.0420	0.0420	100.0	Pass
9	0.0060	0.0060	100.0	Pass
10	0.0208	0.0208	100.0	Pass
11	0.0941	0.0941	100.0	Pass
12	0.0830	0.0830	100.0	Pass
13	0.1070	0.1070	100.0	Pass
14	0.0767	0.0767	100.0	Pass
15	0.0770	0.0770	100.0	Pass
16	0.0588	0.0588	100.0	Pass
17	0.0958	0.0958	100.0	Pass
18	0.1883	0.1883	100.0	Pass
19	0.0891	0.0891	100.0	Pass
20	0.1525	0.1525	100.0	Pass
21	0.1463	0.1463	100.0	Pass
22	0.2732	0.2732	100.0	Pass
23	0.2757	0.2757	100.0	Pass
24	0.2791	0.2791	100.0	Pass
25	0.1365	0.1365	100.0	Pass
26	0.2800	0.2800	100.0	Pass
27	0.3107	0.3107	100.0	Pass

28	0.3479	0.3479	100.0	Pass
29	0.2451	0.2451	100.0	Pass
30	0.3001	0.3001	100.0	Pass
31	0.4835	0.4835	100.0	Pass
Sep1	0.3097	0.3097	100.0	Pass
2	0.2581	0.2581	100.0	Pass
3	0.2545	0.2545	100.0	Pass
4	0.2671	0.2671	100.0	Pass
5	0.2287	0.2287	100.0	Pass
6	0.1637	0.1637	100.0	Pass
7	0.2875	0.2875	100.0	Pass
8	0.2577	0.2577	100.0	Pass
9	0.4768	0.4768	100.0	Pass
10	0.1559	0.1559	100.0	Pass
11	0.1095	0.1095	100.0	Pass
12	0.2569	0.2569	100.0	Pass
13	0.5272	0.5272	100.0	Pass
14	0.4080	0.4080	100.0	Pass
15	0.5129	0.5129	100.0	Pass
16	0.8488	0.8488	100.0	Pass
17	0.7718	0.7718	100.0	Pass
18	0.6289	0.6289	100.0	Pass
19	0.7667	0.7667	100.0	Pass
20	0.6058	0.6058	100.0	Pass
21	0.9740	0.9740	100.0	Pass
22	0.8896	0.8896	100.0	Pass
23	0.5620	0.5620	100.0	Pass
24	0.3729	0.3729	100.0	Pass
25	0.3174	0.3174	100.0	Pass
26	0.3216	0.3216	100.0	Pass
27	0.4907	0.4907	100.0	Pass
28	0.3872	0.3872	100.0	Pass
29	0.4852	0.4852	100.0	Pass
30	0.3771	0.3771	100.0	Pass
Oct1	0.3030	0.3030	100.0	Pass
2	0.5794	0.5794	100.0	Pass
3	0.6103	0.6103	100.0	Pass
4	0.8541	0.8541	100.0	Pass
5	1.0564	1.0564	100.0	Pass
6	0.9858	0.9858	100.0	Pass
7	1.3508	1.3508	100.0	Pass
8	1.2762	1.2762	100.0	Pass
9	0.9942	0.9942	100.0	Pass
10	0.8917	0.8917	100.0	Pass
11	1.1995	1.1995	100.0	Pass
12	1.0058	1.0058	100.0	Pass
13	1.0610	1.0610	100.0	Pass
14	0.8967	0.8967	100.0	Pass
15	0.8210	0.8210	100.0	Pass
16	1.4197	1.4197	100.0	Pass
17	1.2820	1.2820	100.0	Pass
18	1.9261	1.9261	100.0	Pass
19	2.7880	2.7880	100.0	Pass
20	2.4305	2.4305	100.0	Pass
21	2.8879	2.8879	100.0	Pass
22	1.9672	1.9672	100.0	Pass
23	2.9069	2.9069	100.0	Pass

24	2.8082	2.8082	100.0	Pass
25	2.5072	2.5072	100.0	Pass
26	2.9259	2.9259	100.0	Pass
27	2.8091	2.8091	100.0	Pass
28	2.6299	2.6299	100.0	Pass
29	2.3038	2.3038	100.0	Pass
30	2.6492	2.6492	100.0	Pass
31	2.8560	2.8560	100.0	Pass
Nov1	3.5056	3.5056	100.0	Pass
2	3.8866	3.8866	100.0	Pass
3	3.6958	3.6958	100.0	Pass
4	3.0816	3.0816	100.0	Pass
5	3.5839	3.5839	100.0	Pass
6	3.4012	3.4012	100.0	Pass
7	2.9624	2.9624	100.0	Pass
8	3.4287	3.4287	100.0	Pass
9	4.3497	4.3497	100.0	Pass
10	3.9312	3.9312	100.0	Pass
11	4.1976	4.1976	100.0	Pass
12	3.8688	3.8688	100.0	Pass
13	3.5928	3.5928	100.0	Pass
14	3.5115	3.5115	100.0	Pass
15	3.7676	3.7676	100.0	Pass
16	4.1475	4.1475	100.0	Pass
17	4.0118	4.0118	100.0	Pass
18	5.3677	5.3677	100.0	Pass
19	5.5651	5.5651	100.0	Pass
20	4.0912	4.0912	100.0	Pass
21	5.0783	5.0783	100.0	Pass
22	6.0434	6.0434	100.0	Pass
23	5.6996	5.6996	100.0	Pass
24	5.8585	5.8585	100.0	Pass
25	4.8123	4.8123	100.0	Pass
26	3.6999	3.6999	100.0	Pass
27	3.5539	3.5539	100.0	Pass
28	3.6127	3.6127	100.0	Pass
29	5.3432	5.3432	100.0	Pass
30	5.3691	5.3691	100.0	Pass
Dec1	5.3880	5.3880	100.0	Pass
2	5.6480	5.6480	100.0	Pass
3	4.0675	4.0675	100.0	Pass
4	3.6236	3.6236	100.0	Pass
5	3.5136	3.5136	100.0	Pass
6	2.7774	2.7774	100.0	Pass
7	3.4663	3.4663	100.0	Pass
8	4.6056	4.6056	100.0	Pass
9	5.2069	5.2069	100.0	Pass
10	5.6867	5.6867	100.0	Pass
11	4.4778	4.4778	100.0	Pass
12	4.3383	4.3383	100.0	Pass
13	5.7628	5.7628	100.0	Pass
14	5.3082	5.3082	100.0	Pass
15	5.4130	5.4130	100.0	Pass
16	4.6305	4.6305	100.0	Pass
17	4.6151	4.6151	100.0	Pass
18	4.0024	4.0024	100.0	Pass
19	4.1604	4.1604	100.0	Pass

20	4.6423	4.6423	100.0	Pass
21	4.9792	4.9792	100.0	Pass
22	5.1489	5.1489	100.0	Pass
23	5.3197	5.3197	100.0	Pass
24	5.4572	5.4572	100.0	Pass
25	5.6896	5.6896	100.0	Pass
26	5.0435	5.0435	100.0	Pass
27	3.5671	3.5671	100.0	Pass
28	4.5098	4.5098	100.0	Pass
29	3.9275	3.9275	100.0	Pass
30	3.2499	3.2499	100.0	Pass
31	5.2818	5.2818	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #2

Total Pervious Area:0.148

Total Impervious Area:0.273

Mitigated Landuse Totals for POC #2

Total Pervious Area:0.148

Total Impervious Area:0.273

Flow Frequency Return Periods for Predeveloped. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.228119
5 year	0.277423
10 year	0.304556
25 year	0.334223
50 year	0.353666
100 year	0.371266

Flow Frequency Return Periods for Mitigated. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.228119
5 year	0.277423
10 year	0.304556
25 year	0.334223
50 year	0.353666
100 year	0.371266

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #2

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.254	0.254
1957	0.300	0.300
1958	0.223	0.223
1959	0.241	0.241
1960	0.252	0.252

1961	0.181	0.181
1962	0.333	0.333
1963	0.300	0.300
1964	0.249	0.249
1965	0.254	0.254
1966	0.256	0.256
1967	0.151	0.151
1968	0.240	0.240
1969	0.234	0.234
1970	0.202	0.202
1971	0.338	0.338
1972	0.290	0.290
1973	0.253	0.253
1974	0.257	0.257
1975	0.221	0.221
1976	0.273	0.273
1977	0.191	0.191
1978	0.335	0.335
1979	0.213	0.213
1980	0.192	0.192
1981	0.244	0.244
1982	0.281	0.281
1983	0.223	0.223
1984	0.214	0.214
1985	0.145	0.145
1986	0.255	0.255
1987	0.176	0.176
1988	0.272	0.272
1989	0.222	0.222
1990	0.304	0.304
1991	0.182	0.182
1992	0.141	0.141
1993	0.155	0.155
1994	0.214	0.214
1995	0.185	0.185
1996	0.230	0.230
1997	0.244	0.244
1998	0.148	0.148
1999	0.193	0.193
2000	0.177	0.177
2001	0.162	0.162
2002	0.232	0.232
2003	0.327	0.327
2004	0.298	0.298
2005	0.230	0.230
2006	0.237	0.237
2007	0.284	0.284
2008	0.135	0.135
2009	0.126	0.126

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	0.3376	0.3376
2	0.3351	0.3351
3	0.3326	0.3326

4	0.3274	0.3274
5	0.3036	0.3036
6	0.3001	0.3001
7	0.2998	0.2998
8	0.2978	0.2978
9	0.2901	0.2901
10	0.2837	0.2837
11	0.2815	0.2815
12	0.2729	0.2729
13	0.2725	0.2725
14	0.2570	0.2570
15	0.2558	0.2558
16	0.2552	0.2552
17	0.2541	0.2541
18	0.2541	0.2541
19	0.2534	0.2534
20	0.2525	0.2525
21	0.2494	0.2494
22	0.2444	0.2444
23	0.2443	0.2443
24	0.2407	0.2407
25	0.2399	0.2399
26	0.2373	0.2373
27	0.2343	0.2343
28	0.2321	0.2321
29	0.2304	0.2304
30	0.2300	0.2300
31	0.2231	0.2231
32	0.2231	0.2231
33	0.2216	0.2216
34	0.2205	0.2205
35	0.2141	0.2141
36	0.2141	0.2141
37	0.2134	0.2134
38	0.2022	0.2022
39	0.1933	0.1933
40	0.1922	0.1922
41	0.1908	0.1908
42	0.1852	0.1852
43	0.1820	0.1820
44	0.1808	0.1808
45	0.1773	0.1773
46	0.1760	0.1760
47	0.1619	0.1619
48	0.1554	0.1554
49	0.1513	0.1513
50	0.1484	0.1484
51	0.1454	0.1454
52	0.1409	0.1409
53	0.1353	0.1353
54	0.1258	0.1258

Stream Protection Duration
POC #2
The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1141	901	901	100	Pass
0.1165	850	850	100	Pass
0.1189	791	791	100	Pass
0.1213	734	734	100	Pass
0.1237	691	691	100	Pass
0.1262	617	617	100	Pass
0.1286	589	589	100	Pass
0.1310	546	546	100	Pass
0.1334	516	516	100	Pass
0.1358	480	480	100	Pass
0.1383	441	441	100	Pass
0.1407	411	411	100	Pass
0.1431	384	384	100	Pass
0.1455	370	370	100	Pass
0.1479	349	349	100	Pass
0.1504	317	317	100	Pass
0.1528	296	296	100	Pass
0.1552	268	268	100	Pass
0.1576	253	253	100	Pass
0.1600	232	232	100	Pass
0.1625	220	220	100	Pass
0.1649	217	217	100	Pass
0.1673	204	204	100	Pass
0.1697	194	194	100	Pass
0.1721	181	181	100	Pass
0.1746	174	174	100	Pass
0.1770	162	162	100	Pass
0.1794	150	150	100	Pass
0.1818	145	145	100	Pass
0.1842	137	137	100	Pass
0.1867	133	133	100	Pass
0.1891	128	128	100	Pass
0.1915	119	119	100	Pass
0.1939	112	112	100	Pass
0.1963	104	104	100	Pass
0.1988	98	98	100	Pass
0.2012	95	95	100	Pass
0.2036	92	92	100	Pass
0.2060	88	88	100	Pass
0.2084	85	85	100	Pass
0.2109	81	81	100	Pass
0.2133	77	77	100	Pass
0.2157	73	73	100	Pass
0.2181	69	69	100	Pass
0.2206	66	66	100	Pass
0.2230	63	63	100	Pass
0.2254	57	57	100	Pass
0.2278	51	51	100	Pass
0.2302	50	50	100	Pass
0.2327	49	49	100	Pass
0.2351	46	46	100	Pass
0.2375	45	45	100	Pass
0.2399	43	43	100	Pass
0.2423	41	41	100	Pass

0.2448	40	40	100	Pass
0.2472	35	35	100	Pass
0.2496	35	35	100	Pass
0.2520	34	34	100	Pass
0.2544	31	31	100	Pass
0.2569	26	26	100	Pass
0.2593	24	24	100	Pass
0.2617	24	24	100	Pass
0.2641	24	24	100	Pass
0.2665	22	22	100	Pass
0.2690	21	21	100	Pass
0.2714	19	19	100	Pass
0.2738	17	17	100	Pass
0.2762	15	15	100	Pass
0.2786	15	15	100	Pass
0.2811	15	15	100	Pass
0.2835	13	13	100	Pass
0.2859	12	12	100	Pass
0.2883	11	11	100	Pass
0.2907	11	11	100	Pass
0.2932	10	10	100	Pass
0.2956	10	10	100	Pass
0.2980	9	9	100	Pass
0.3004	8	8	100	Pass
0.3028	7	7	100	Pass
0.3053	6	6	100	Pass
0.3077	6	6	100	Pass
0.3101	6	6	100	Pass
0.3125	6	6	100	Pass
0.3149	5	5	100	Pass
0.3174	5	5	100	Pass
0.3198	5	5	100	Pass
0.3222	4	4	100	Pass
0.3246	4	4	100	Pass
0.3270	4	4	100	Pass
0.3295	3	3	100	Pass
0.3319	3	3	100	Pass
0.3343	2	2	100	Pass
0.3367	1	1	100	Pass
0.3391	0	0	100	Pass
0.3416	0	0	0	Pass
0.3440	0	0	0	Pass
0.3464	0	0	0	Pass
0.3488	0	0	0	Pass
0.3512	0	0	0	Pass
0.3537	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #2

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 2

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	15.4927	15.4927	100.0	Pass
Feb	11.8999	11.8999	100.0	Pass
Mar	10.5086	10.5086	100.0	Pass
Apr	5.7665	5.7665	100.0	Pass
May	2.9510	2.9510	100.0	Pass
Jun	1.9140	1.9140	100.0	Pass
Jul	0.9234	0.9234	100.0	Pass
Aug	1.3617	1.3617	100.0	Pass
Sep	3.2225	3.2225	100.0	Pass
Oct	8.2003	8.2003	100.0	Pass
Nov	14.5021	14.5021	100.0	Pass
Dec	14.9484	14.9484	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4950	0.4950	100.0	Pass
2	0.3980	0.3980	100.0	Pass
3	0.4929	0.4929	100.0	Pass
4	0.5701	0.5701	100.0	Pass
5	0.4332	0.4332	100.0	Pass
6	0.6211	0.6211	100.0	Pass
7	0.5018	0.5018	100.0	Pass
8	0.4990	0.4990	100.0	Pass
9	0.5244	0.5244	100.0	Pass
10	0.5171	0.5171	100.0	Pass
11	0.6235	0.6235	100.0	Pass
12	0.5045	0.5045	100.0	Pass
13	0.6179	0.6179	100.0	Pass
14	0.6218	0.6218	100.0	Pass
15	0.5726	0.5726	100.0	Pass
16	0.4818	0.4818	100.0	Pass
17	0.4579	0.4579	100.0	Pass
18	0.4048	0.4048	100.0	Pass
19	0.3974	0.3974	100.0	Pass
20	0.2727	0.2727	100.0	Pass
21	0.4719	0.4719	100.0	Pass
22	0.5861	0.5861	100.0	Pass
23	0.6633	0.6633	100.0	Pass
24	0.4742	0.4742	100.0	Pass
25	0.4027	0.4027	100.0	Pass
26	0.3633	0.3633	100.0	Pass
27	0.4393	0.4393	100.0	Pass
28	0.5539	0.5539	100.0	Pass
29	0.4392	0.4392	100.0	Pass
30	0.5054	0.5054	100.0	Pass
31	0.3227	0.3227	100.0	Pass
Feb1	0.3541	0.3541	100.0	Pass
2	0.3205	0.3205	100.0	Pass
3	0.2923	0.2923	100.0	Pass
4	0.2709	0.2709	100.0	Pass
5	0.4735	0.4735	100.0	Pass
6	0.2640	0.2640	100.0	Pass
7	0.3567	0.3567	100.0	Pass
8	0.2796	0.2796	100.0	Pass

9	0.3244	0.3244	100.0	Pass
10	0.4264	0.4264	100.0	Pass
11	0.5669	0.5669	100.0	Pass
12	0.4612	0.4612	100.0	Pass
13	0.4852	0.4852	100.0	Pass
14	0.6624	0.6624	100.0	Pass
15	0.5102	0.5102	100.0	Pass
16	0.6431	0.6431	100.0	Pass
17	0.5783	0.5783	100.0	Pass
18	0.4718	0.4718	100.0	Pass
19	0.4079	0.4079	100.0	Pass
20	0.3893	0.3893	100.0	Pass
21	0.3192	0.3192	100.0	Pass
22	0.4491	0.4491	100.0	Pass
23	0.4323	0.4323	100.0	Pass
24	0.4748	0.4748	100.0	Pass
25	0.4309	0.4309	100.0	Pass
26	0.4267	0.4267	100.0	Pass
27	0.3762	0.3762	100.0	Pass
28	0.4680	0.4680	100.0	Pass
29	0.3586	0.3586	100.0	Pass
Mar1	0.3506	0.3506	100.0	Pass
2	0.2914	0.2914	100.0	Pass
3	0.3956	0.3956	100.0	Pass
4	0.4172	0.4172	100.0	Pass
5	0.3346	0.3346	100.0	Pass
6	0.4182	0.4182	100.0	Pass
7	0.4061	0.4061	100.0	Pass
8	0.3991	0.3991	100.0	Pass
9	0.4003	0.4003	100.0	Pass
10	0.3540	0.3540	100.0	Pass
11	0.3794	0.3794	100.0	Pass
12	0.3372	0.3372	100.0	Pass
13	0.4031	0.4031	100.0	Pass
14	0.3274	0.3274	100.0	Pass
15	0.2682	0.2682	100.0	Pass
16	0.2545	0.2545	100.0	Pass
17	0.3397	0.3397	100.0	Pass
18	0.2168	0.2168	100.0	Pass
19	0.3082	0.3082	100.0	Pass
20	0.2536	0.2536	100.0	Pass
21	0.4117	0.4117	100.0	Pass
22	0.4651	0.4651	100.0	Pass
23	0.3992	0.3992	100.0	Pass
24	0.2684	0.2684	100.0	Pass
25	0.3845	0.3845	100.0	Pass
26	0.2918	0.2918	100.0	Pass
27	0.2733	0.2733	100.0	Pass
28	0.3062	0.3062	100.0	Pass
29	0.2801	0.2801	100.0	Pass
30	0.2153	0.2153	100.0	Pass
31	0.1733	0.1733	100.0	Pass
Apr1	0.1808	0.1808	100.0	Pass
2	0.2002	0.2002	100.0	Pass
3	0.2671	0.2671	100.0	Pass
4	0.2491	0.2491	100.0	Pass
5	0.2716	0.2716	100.0	Pass

6	0.1536	0.1536	100.0	Pass
7	0.2354	0.2354	100.0	Pass
8	0.2418	0.2418	100.0	Pass
9	0.2134	0.2134	100.0	Pass
10	0.2147	0.2147	100.0	Pass
11	0.2824	0.2824	100.0	Pass
12	0.2503	0.2503	100.0	Pass
13	0.2584	0.2584	100.0	Pass
14	0.2246	0.2246	100.0	Pass
15	0.2398	0.2398	100.0	Pass
16	0.1404	0.1404	100.0	Pass
17	0.1806	0.1806	100.0	Pass
18	0.2057	0.2057	100.0	Pass
19	0.1195	0.1195	100.0	Pass
20	0.1111	0.1111	100.0	Pass
21	0.1785	0.1785	100.0	Pass
22	0.1513	0.1513	100.0	Pass
23	0.1348	0.1348	100.0	Pass
24	0.1095	0.1095	100.0	Pass
25	0.1277	0.1277	100.0	Pass
26	0.2135	0.2135	100.0	Pass
27	0.1697	0.1697	100.0	Pass
28	0.1770	0.1770	100.0	Pass
29	0.0913	0.0913	100.0	Pass
30	0.1125	0.1125	100.0	Pass
May1	0.1694	0.1694	100.0	Pass
2	0.1284	0.1284	100.0	Pass
3	0.1343	0.1343	100.0	Pass
4	0.1087	0.1087	100.0	Pass
5	0.1033	0.1033	100.0	Pass
6	0.0870	0.0870	100.0	Pass
7	0.1132	0.1132	100.0	Pass
8	0.0720	0.0720	100.0	Pass
9	0.0967	0.0967	100.0	Pass
10	0.0780	0.0780	100.0	Pass
11	0.0730	0.0730	100.0	Pass
12	0.1035	0.1035	100.0	Pass
13	0.1112	0.1112	100.0	Pass
14	0.1087	0.1087	100.0	Pass
15	0.0762	0.0762	100.0	Pass
16	0.0945	0.0945	100.0	Pass
17	0.0789	0.0789	100.0	Pass
18	0.1231	0.1231	100.0	Pass
19	0.0682	0.0682	100.0	Pass
20	0.0645	0.0645	100.0	Pass
21	0.0659	0.0659	100.0	Pass
22	0.0793	0.0793	100.0	Pass
23	0.0711	0.0711	100.0	Pass
24	0.0747	0.0747	100.0	Pass
25	0.0632	0.0632	100.0	Pass
26	0.1068	0.1068	100.0	Pass
27	0.0856	0.0856	100.0	Pass
28	0.0917	0.0917	100.0	Pass
29	0.1250	0.1250	100.0	Pass
30	0.0829	0.0829	100.0	Pass
31	0.0901	0.0901	100.0	Pass
Jun1	0.0694	0.0694	100.0	Pass

	2	0.1074	0.1074	100.0	Pass
	3	0.1022	0.1022	100.0	Pass
	4	0.0750	0.0750	100.0	Pass
	5	0.1223	0.1223	100.0	Pass
	6	0.0500	0.0500	100.0	Pass
	7	0.0731	0.0731	100.0	Pass
	8	0.1011	0.1011	100.0	Pass
	9	0.0770	0.0770	100.0	Pass
	10	0.0720	0.0720	100.0	Pass
	11	0.0530	0.0530	100.0	Pass
	12	0.0627	0.0627	100.0	Pass
	13	0.1000	0.1000	100.0	Pass
	14	0.0437	0.0437	100.0	Pass
	15	0.0827	0.0827	100.0	Pass
	16	0.0387	0.0387	100.0	Pass
	17	0.0521	0.0521	100.0	Pass
	18	0.0368	0.0368	100.0	Pass
	19	0.0413	0.0413	100.0	Pass
	20	0.0444	0.0444	100.0	Pass
	21	0.0452	0.0452	100.0	Pass
	22	0.0255	0.0255	100.0	Pass
	23	0.1223	0.1223	100.0	Pass
	24	0.0369	0.0369	100.0	Pass
	25	0.0560	0.0560	100.0	Pass
	26	0.0337	0.0337	100.0	Pass
	27	0.0297	0.0297	100.0	Pass
	28	0.0304	0.0304	100.0	Pass
	29	0.0396	0.0396	100.0	Pass
	30	0.0869	0.0869	100.0	Pass
Jul	1	0.0235	0.0235	100.0	Pass
	2	0.0192	0.0192	100.0	Pass
	3	0.0203	0.0203	100.0	Pass
	4	0.0479	0.0479	100.0	Pass
	5	0.0362	0.0362	100.0	Pass
	6	0.0276	0.0276	100.0	Pass
	7	0.0541	0.0541	100.0	Pass
	8	0.0321	0.0321	100.0	Pass
	9	0.0641	0.0641	100.0	Pass
	10	0.0428	0.0428	100.0	Pass
	11	0.0881	0.0881	100.0	Pass
	12	0.0490	0.0490	100.0	Pass
	13	0.0352	0.0352	100.0	Pass
	14	0.0508	0.0508	100.0	Pass
	15	0.0211	0.0211	100.0	Pass
	16	0.0132	0.0132	100.0	Pass
	17	0.0428	0.0428	100.0	Pass
	18	0.0158	0.0158	100.0	Pass
	19	0.0182	0.0182	100.0	Pass
	20	0.0307	0.0307	100.0	Pass
	21	0.0252	0.0252	100.0	Pass
	22	0.0031	0.0031	100.0	Pass
	23	0.0073	0.0073	100.0	Pass
	24	0.0080	0.0080	100.0	Pass
	25	0.0174	0.0174	100.0	Pass
	26	0.0072	0.0072	100.0	Pass
	27	0.0109	0.0109	100.0	Pass
	28	0.0090	0.0090	100.0	Pass

29	0.0059	0.0059	100.0	Pass
30	0.0100	0.0100	100.0	Pass
31	0.0116	0.0116	100.0	Pass
Aug1	0.0479	0.0479	100.0	Pass
2	0.0175	0.0175	100.0	Pass
3	0.0071	0.0071	100.0	Pass
4	0.0068	0.0068	100.0	Pass
5	0.0550	0.0550	100.0	Pass
6	0.0377	0.0377	100.0	Pass
7	0.0142	0.0142	100.0	Pass
8	0.0139	0.0139	100.0	Pass
9	0.0013	0.0013	100.0	Pass
10	0.0071	0.0071	100.0	Pass
11	0.0348	0.0348	100.0	Pass
12	0.0300	0.0300	100.0	Pass
13	0.0380	0.0380	100.0	Pass
14	0.0241	0.0241	100.0	Pass
15	0.0221	0.0221	100.0	Pass
16	0.0185	0.0185	100.0	Pass
17	0.0347	0.0347	100.0	Pass
18	0.0668	0.0668	100.0	Pass
19	0.0202	0.0202	100.0	Pass
20	0.0523	0.0523	100.0	Pass
21	0.0492	0.0492	100.0	Pass
22	0.0951	0.0951	100.0	Pass
23	0.0914	0.0914	100.0	Pass
24	0.0830	0.0830	100.0	Pass
25	0.0357	0.0357	100.0	Pass
26	0.0928	0.0928	100.0	Pass
27	0.0962	0.0962	100.0	Pass
28	0.0980	0.0980	100.0	Pass
29	0.0624	0.0624	100.0	Pass
30	0.0963	0.0963	100.0	Pass
31	0.1545	0.1545	100.0	Pass
Sep1	0.0663	0.0663	100.0	Pass
2	0.0648	0.0648	100.0	Pass
3	0.0681	0.0681	100.0	Pass
4	0.0834	0.0834	100.0	Pass
5	0.0722	0.0722	100.0	Pass
6	0.0503	0.0503	100.0	Pass
7	0.0933	0.0933	100.0	Pass
8	0.0617	0.0617	100.0	Pass
9	0.1511	0.1511	100.0	Pass
10	0.0393	0.0393	100.0	Pass
11	0.0318	0.0318	100.0	Pass
12	0.0799	0.0799	100.0	Pass
13	0.1510	0.1510	100.0	Pass
14	0.1001	0.1001	100.0	Pass
15	0.1483	0.1483	100.0	Pass
16	0.1623	0.1623	100.0	Pass
17	0.1738	0.1738	100.0	Pass
18	0.1572	0.1572	100.0	Pass
19	0.1705	0.1705	100.0	Pass
20	0.1291	0.1291	100.0	Pass
21	0.1753	0.1753	100.0	Pass
22	0.1419	0.1419	100.0	Pass
23	0.1115	0.1115	100.0	Pass

24	0.0801	0.0801	100.0	Pass
25	0.0821	0.0821	100.0	Pass
26	0.0829	0.0829	100.0	Pass
27	0.1139	0.1139	100.0	Pass
28	0.0981	0.0981	100.0	Pass
29	0.1280	0.1280	100.0	Pass
30	0.0960	0.0960	100.0	Pass
Oct1	0.0687	0.0687	100.0	Pass
2	0.1618	0.1618	100.0	Pass
3	0.1469	0.1469	100.0	Pass
4	0.1817	0.1817	100.0	Pass
5	0.1940	0.1940	100.0	Pass
6	0.2136	0.2136	100.0	Pass
7	0.2749	0.2749	100.0	Pass
8	0.2291	0.2291	100.0	Pass
9	0.1803	0.1803	100.0	Pass
10	0.1480	0.1480	100.0	Pass
11	0.2663	0.2663	100.0	Pass
12	0.1860	0.1860	100.0	Pass
13	0.2514	0.2514	100.0	Pass
14	0.1532	0.1532	100.0	Pass
15	0.1750	0.1750	100.0	Pass
16	0.2342	0.2342	100.0	Pass
17	0.2157	0.2157	100.0	Pass
18	0.3413	0.3413	100.0	Pass
19	0.4242	0.4242	100.0	Pass
20	0.3690	0.3690	100.0	Pass
21	0.4443	0.4443	100.0	Pass
22	0.2770	0.2770	100.0	Pass
23	0.4331	0.4331	100.0	Pass
24	0.3855	0.3855	100.0	Pass
25	0.3478	0.3478	100.0	Pass
26	0.4146	0.4146	100.0	Pass
27	0.3603	0.3603	100.0	Pass
28	0.3345	0.3345	100.0	Pass
29	0.2864	0.2864	100.0	Pass
30	0.4064	0.4064	100.0	Pass
31	0.3532	0.3532	100.0	Pass
Nov1	0.4400	0.4400	100.0	Pass
2	0.5221	0.5221	100.0	Pass
3	0.4246	0.4246	100.0	Pass
4	0.4227	0.4227	100.0	Pass
5	0.4663	0.4663	100.0	Pass
6	0.3982	0.3982	100.0	Pass
7	0.3603	0.3603	100.0	Pass
8	0.4505	0.4505	100.0	Pass
9	0.5337	0.5337	100.0	Pass
10	0.4656	0.4656	100.0	Pass
11	0.5162	0.5162	100.0	Pass
12	0.4781	0.4781	100.0	Pass
13	0.3723	0.3723	100.0	Pass
14	0.4207	0.4207	100.0	Pass
15	0.4703	0.4703	100.0	Pass
16	0.4905	0.4905	100.0	Pass
17	0.4543	0.4543	100.0	Pass
18	0.6539	0.6539	100.0	Pass
19	0.5971	0.5971	100.0	Pass

20	0.4106	0.4106	100.0	Pass
21	0.6143	0.6143	100.0	Pass
22	0.7172	0.7172	100.0	Pass
23	0.5693	0.5693	100.0	Pass
24	0.6406	0.6406	100.0	Pass
25	0.4420	0.4420	100.0	Pass
26	0.3589	0.3589	100.0	Pass
27	0.4169	0.4169	100.0	Pass
28	0.3987	0.3987	100.0	Pass
29	0.6437	0.6437	100.0	Pass
30	0.5329	0.5329	100.0	Pass
Dec1	0.5810	0.5810	100.0	Pass
2	0.5695	0.5695	100.0	Pass
3	0.3784	0.3784	100.0	Pass
4	0.4057	0.4057	100.0	Pass
5	0.3541	0.3541	100.0	Pass
6	0.3039	0.3039	100.0	Pass
7	0.4230	0.4230	100.0	Pass
8	0.5305	0.5305	100.0	Pass
9	0.5358	0.5358	100.0	Pass
10	0.5805	0.5805	100.0	Pass
11	0.4329	0.4329	100.0	Pass
12	0.4610	0.4610	100.0	Pass
13	0.6663	0.6663	100.0	Pass
14	0.4871	0.4871	100.0	Pass
15	0.6130	0.6130	100.0	Pass
16	0.4333	0.4333	100.0	Pass
17	0.4992	0.4992	100.0	Pass
18	0.4166	0.4166	100.0	Pass
19	0.4762	0.4762	100.0	Pass
20	0.4737	0.4737	100.0	Pass
21	0.5215	0.5215	100.0	Pass
22	0.5115	0.5115	100.0	Pass
23	0.5531	0.5531	100.0	Pass
24	0.6075	0.6075	100.0	Pass
25	0.5418	0.5418	100.0	Pass
26	0.4959	0.4959	100.0	Pass
27	0.3406	0.3406	100.0	Pass
28	0.5097	0.5097	100.0	Pass
29	0.3538	0.3538	100.0	Pass
30	0.3592	0.3592	100.0	Pass
31	0.5869	0.5869	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #3
Total Pervious Area:0.109
Total Impervious Area:0.232

Mitigated Landuse Totals for POC #3
Total Pervious Area:0.109

Total Impervious Area:0.232

Flow Frequency Return Periods for Predeveloped. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.188353
5 year	0.22819
10 year	0.250053
25 year	0.273914
50 year	0.289528
100 year	0.303649

Flow Frequency Return Periods for Mitigated. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.188353
5 year	0.22819
10 year	0.250053
25 year	0.273914
50 year	0.289528
100 year	0.303649

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #3

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.208	0.208
1957	0.247	0.247
1958	0.185	0.185
1959	0.198	0.198
1960	0.207	0.207
1961	0.151	0.151
1962	0.272	0.272
1963	0.246	0.246
1964	0.206	0.206
1965	0.209	0.209
1966	0.210	0.210
1967	0.126	0.126
1968	0.197	0.197
1969	0.192	0.192
1970	0.168	0.168
1971	0.277	0.277
1972	0.237	0.237
1973	0.209	0.209
1974	0.211	0.211
1975	0.182	0.182
1976	0.224	0.224
1977	0.158	0.158
1978	0.276	0.276
1979	0.176	0.176
1980	0.159	0.159
1981	0.202	0.202
1982	0.233	0.233
1983	0.184	0.184
1984	0.176	0.176
1985	0.122	0.122
1986	0.210	0.210
1987	0.145	0.145

1988	0.224	0.224
1989	0.183	0.183
1990	0.249	0.249
1991	0.150	0.150
1992	0.117	0.117
1993	0.130	0.130
1994	0.177	0.177
1995	0.156	0.156
1996	0.193	0.193
1997	0.202	0.202
1998	0.123	0.123
1999	0.160	0.160
2000	0.146	0.146
2001	0.135	0.135
2002	0.197	0.197
2003	0.268	0.268
2004	0.245	0.245
2005	0.190	0.190
2006	0.195	0.195
2007	0.233	0.233
2008	0.113	0.113
2009	0.105	0.105

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	0.2769	0.2769
2	0.2762	0.2762
3	0.2724	0.2724
4	0.2680	0.2680
5	0.2489	0.2489
6	0.2473	0.2473
7	0.2460	0.2460
8	0.2446	0.2446
9	0.2373	0.2373
10	0.2327	0.2327
11	0.2326	0.2326
12	0.2243	0.2243
13	0.2242	0.2242
14	0.2105	0.2105
15	0.2101	0.2101
16	0.2097	0.2097
17	0.2091	0.2091
18	0.2091	0.2091
19	0.2081	0.2081
20	0.2069	0.2069
21	0.2060	0.2060
22	0.2021	0.2021
23	0.2019	0.2019
24	0.1976	0.1976
25	0.1973	0.1973
26	0.1965	0.1965
27	0.1952	0.1952
28	0.1931	0.1931
29	0.1920	0.1920
30	0.1895	0.1895

31	0.1848	0.1848
32	0.1842	0.1842
33	0.1830	0.1830
34	0.1816	0.1816
35	0.1768	0.1768
36	0.1761	0.1761
37	0.1756	0.1756
38	0.1681	0.1681
39	0.1598	0.1598
40	0.1588	0.1588
41	0.1577	0.1577
42	0.1558	0.1558
43	0.1509	0.1509
44	0.1499	0.1499
45	0.1464	0.1464
46	0.1452	0.1452
47	0.1351	0.1351
48	0.1295	0.1295
49	0.1255	0.1255
50	0.1235	0.1235
51	0.1217	0.1217
52	0.1173	0.1173
53	0.1127	0.1127
54	0.1051	0.1051

Stream Protection Duration

POC #3

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0942	933	933	100	Pass
0.0961	863	863	100	Pass
0.0981	791	791	100	Pass
0.1001	755	755	100	Pass
0.1021	696	696	100	Pass
0.1040	641	641	100	Pass
0.1060	590	590	100	Pass
0.1080	567	567	100	Pass
0.1100	524	524	100	Pass
0.1119	480	480	100	Pass
0.1139	451	451	100	Pass
0.1159	419	419	100	Pass
0.1179	393	393	100	Pass
0.1198	372	372	100	Pass
0.1218	345	345	100	Pass
0.1238	326	326	100	Pass
0.1257	300	300	100	Pass
0.1277	277	277	100	Pass
0.1297	260	260	100	Pass
0.1317	242	242	100	Pass
0.1336	224	224	100	Pass
0.1356	214	214	100	Pass
0.1376	209	209	100	Pass
0.1396	194	194	100	Pass

0.1415	185	185	100	Pass
0.1435	176	176	100	Pass
0.1455	166	166	100	Pass
0.1475	152	152	100	Pass
0.1494	147	147	100	Pass
0.1514	139	139	100	Pass
0.1534	135	135	100	Pass
0.1553	129	129	100	Pass
0.1573	123	123	100	Pass
0.1593	111	111	100	Pass
0.1613	106	106	100	Pass
0.1632	98	98	100	Pass
0.1652	95	95	100	Pass
0.1672	93	93	100	Pass
0.1692	89	89	100	Pass
0.1711	86	86	100	Pass
0.1731	80	80	100	Pass
0.1751	80	80	100	Pass
0.1771	72	72	100	Pass
0.1790	70	70	100	Pass
0.1810	67	67	100	Pass
0.1830	64	64	100	Pass
0.1849	57	57	100	Pass
0.1869	51	51	100	Pass
0.1889	51	51	100	Pass
0.1909	50	50	100	Pass
0.1928	48	48	100	Pass
0.1948	46	46	100	Pass
0.1968	43	43	100	Pass
0.1988	41	41	100	Pass
0.2007	40	40	100	Pass
0.2027	35	35	100	Pass
0.2047	35	35	100	Pass
0.2067	34	34	100	Pass
0.2086	31	31	100	Pass
0.2106	26	26	100	Pass
0.2126	24	24	100	Pass
0.2145	24	24	100	Pass
0.2165	24	24	100	Pass
0.2185	23	23	100	Pass
0.2205	21	21	100	Pass
0.2224	20	20	100	Pass
0.2244	17	17	100	Pass
0.2264	16	16	100	Pass
0.2284	15	15	100	Pass
0.2303	15	15	100	Pass
0.2323	14	14	100	Pass
0.2343	12	12	100	Pass
0.2363	11	11	100	Pass
0.2382	10	10	100	Pass
0.2402	10	10	100	Pass
0.2422	10	10	100	Pass
0.2441	10	10	100	Pass
0.2461	8	8	100	Pass
0.2481	7	7	100	Pass
0.2501	6	6	100	Pass
0.2520	6	6	100	Pass

0.2540	6	6	100	Pass
0.2560	5	5	100	Pass
0.2580	5	5	100	Pass
0.2599	5	5	100	Pass
0.2619	4	4	100	Pass
0.2639	4	4	100	Pass
0.2658	4	4	100	Pass
0.2678	4	4	100	Pass
0.2698	3	3	100	Pass
0.2718	3	3	100	Pass
0.2737	2	2	100	Pass
0.2757	2	2	100	Pass
0.2777	0	0	100	Pass
0.2797	0	0	0	Pass
0.2816	0	0	0	Pass
0.2836	0	0	0	Pass
0.2856	0	0	0	Pass
0.2876	0	0	0	Pass
0.2895	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #3
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 3

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	12.6442	12.6442	100.0	Pass
Feb	9.7049	9.7049	100.0	Pass
Mar	8.5748	8.5748	100.0	Pass
Apr	4.7185	4.7185	100.0	Pass
May	2.4355	2.4355	100.0	Pass
Jun	1.5865	1.5865	100.0	Pass
Jul	0.7692	0.7692	100.0	Pass
Aug	1.1383	1.1383	100.0	Pass
Sep	2.6743	2.6743	100.0	Pass
Oct	6.7579	6.7579	100.0	Pass
Nov	11.8671	11.8671	100.0	Pass
Dec	12.1996	12.1996	100.0	Pass

Day

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4043	0.4043	100.0	Pass
2	0.3235	0.3235	100.0	Pass
3	0.4032	0.4032	100.0	Pass
4	0.4679	0.4679	100.0	Pass
5	0.3521	0.3521	100.0	Pass
6	0.5101	0.5101	100.0	Pass
7	0.4083	0.4083	100.0	Pass
8	0.4070	0.4070	100.0	Pass
9	0.4291	0.4291	100.0	Pass

10	0.4217	0.4217	100.0	Pass
11	0.5101	0.5101	100.0	Pass
12	0.4101	0.4101	100.0	Pass
13	0.5054	0.5054	100.0	Pass
14	0.5076	0.5076	100.0	Pass
15	0.4665	0.4665	100.0	Pass
16	0.3904	0.3904	100.0	Pass
17	0.3717	0.3717	100.0	Pass
18	0.3284	0.3284	100.0	Pass
19	0.3237	0.3237	100.0	Pass
20	0.2200	0.2200	100.0	Pass
21	0.3894	0.3894	100.0	Pass
22	0.4809	0.4809	100.0	Pass
23	0.5429	0.5429	100.0	Pass
24	0.3843	0.3843	100.0	Pass
25	0.3262	0.3262	100.0	Pass
26	0.2943	0.2943	100.0	Pass
27	0.3593	0.3593	100.0	Pass
28	0.4539	0.4539	100.0	Pass
29	0.3571	0.3571	100.0	Pass
30	0.4134	0.4134	100.0	Pass
31	0.2606	0.2606	100.0	Pass
Feb1	0.2882	0.2882	100.0	Pass
2	0.2613	0.2613	100.0	Pass
3	0.2379	0.2379	100.0	Pass
4	0.2204	0.2204	100.0	Pass
5	0.3897	0.3897	100.0	Pass
6	0.2129	0.2129	100.0	Pass
7	0.2921	0.2921	100.0	Pass
8	0.2274	0.2274	100.0	Pass
9	0.2660	0.2660	100.0	Pass
10	0.3506	0.3506	100.0	Pass
11	0.4652	0.4652	100.0	Pass
12	0.3753	0.3753	100.0	Pass
13	0.3965	0.3965	100.0	Pass
14	0.5444	0.5444	100.0	Pass
15	0.4143	0.4143	100.0	Pass
16	0.5265	0.5265	100.0	Pass
17	0.4713	0.4713	100.0	Pass
18	0.3817	0.3817	100.0	Pass
19	0.3304	0.3304	100.0	Pass
20	0.3160	0.3160	100.0	Pass
21	0.2591	0.2591	100.0	Pass
22	0.3677	0.3677	100.0	Pass
23	0.3530	0.3530	100.0	Pass
24	0.3879	0.3879	100.0	Pass
25	0.3509	0.3509	100.0	Pass
26	0.3471	0.3471	100.0	Pass
27	0.3056	0.3056	100.0	Pass
28	0.3814	0.3814	100.0	Pass
29	0.2919	0.2919	100.0	Pass
Mar1	0.2858	0.2858	100.0	Pass
2	0.2367	0.2367	100.0	Pass
3	0.3242	0.3242	100.0	Pass
4	0.3413	0.3413	100.0	Pass
5	0.2725	0.2725	100.0	Pass
6	0.3415	0.3415	100.0	Pass

7	0.3324	0.3324	100.0	Pass
8	0.3258	0.3258	100.0	Pass
9	0.3267	0.3267	100.0	Pass
10	0.2879	0.2879	100.0	Pass
11	0.3095	0.3095	100.0	Pass
12	0.2748	0.2748	100.0	Pass
13	0.3296	0.3296	100.0	Pass
14	0.2662	0.2662	100.0	Pass
15	0.2177	0.2177	100.0	Pass
16	0.2073	0.2073	100.0	Pass
17	0.2779	0.2779	100.0	Pass
18	0.1756	0.1756	100.0	Pass
19	0.2527	0.2527	100.0	Pass
20	0.2069	0.2069	100.0	Pass
21	0.3389	0.3389	100.0	Pass
22	0.3822	0.3822	100.0	Pass
23	0.3252	0.3252	100.0	Pass
24	0.2163	0.2163	100.0	Pass
25	0.3151	0.3151	100.0	Pass
26	0.2368	0.2368	100.0	Pass
27	0.2229	0.2229	100.0	Pass
28	0.2498	0.2498	100.0	Pass
29	0.2286	0.2286	100.0	Pass
30	0.1746	0.1746	100.0	Pass
31	0.1405	0.1405	100.0	Pass
Apr1	0.1475	0.1475	100.0	Pass
2	0.1640	0.1640	100.0	Pass
3	0.2203	0.2203	100.0	Pass
4	0.2040	0.2040	100.0	Pass
5	0.2218	0.2218	100.0	Pass
6	0.1239	0.1239	100.0	Pass
7	0.1936	0.1936	100.0	Pass
8	0.1979	0.1979	100.0	Pass
9	0.1748	0.1748	100.0	Pass
10	0.1752	0.1752	100.0	Pass
11	0.2329	0.2329	100.0	Pass
12	0.2047	0.2047	100.0	Pass
13	0.2119	0.2119	100.0	Pass
14	0.1833	0.1833	100.0	Pass
15	0.1959	0.1959	100.0	Pass
16	0.1131	0.1131	100.0	Pass
17	0.1480	0.1480	100.0	Pass
18	0.1690	0.1690	100.0	Pass
19	0.0964	0.0964	100.0	Pass
20	0.0905	0.0905	100.0	Pass
21	0.1474	0.1474	100.0	Pass
22	0.1244	0.1244	100.0	Pass
23	0.1103	0.1103	100.0	Pass
24	0.0894	0.0894	100.0	Pass
25	0.1052	0.1052	100.0	Pass
26	0.1760	0.1760	100.0	Pass
27	0.1388	0.1388	100.0	Pass
28	0.1449	0.1449	100.0	Pass
29	0.0735	0.0735	100.0	Pass
30	0.0924	0.0924	100.0	Pass
May1	0.1404	0.1404	100.0	Pass
2	0.1051	0.1051	100.0	Pass

3	0.1106	0.1106	100.0	Pass
4	0.0889	0.0889	100.0	Pass
5	0.0848	0.0848	100.0	Pass
6	0.0714	0.0714	100.0	Pass
7	0.0935	0.0935	100.0	Pass
8	0.0588	0.0588	100.0	Pass
9	0.0799	0.0799	100.0	Pass
10	0.0644	0.0644	100.0	Pass
11	0.0603	0.0603	100.0	Pass
12	0.0857	0.0857	100.0	Pass
13	0.0921	0.0921	100.0	Pass
14	0.0901	0.0901	100.0	Pass
15	0.0622	0.0622	100.0	Pass
16	0.0782	0.0782	100.0	Pass
17	0.0649	0.0649	100.0	Pass
18	0.1025	0.1025	100.0	Pass
19	0.0559	0.0559	100.0	Pass
20	0.0533	0.0533	100.0	Pass
21	0.0545	0.0545	100.0	Pass
22	0.0660	0.0660	100.0	Pass
23	0.0588	0.0588	100.0	Pass
24	0.0618	0.0618	100.0	Pass
25	0.0521	0.0521	100.0	Pass
26	0.0888	0.0888	100.0	Pass
27	0.0707	0.0707	100.0	Pass
28	0.0759	0.0759	100.0	Pass
29	0.1036	0.1036	100.0	Pass
30	0.0682	0.0682	100.0	Pass
31	0.0742	0.0742	100.0	Pass
Jun1	0.0567	0.0567	100.0	Pass
2	0.0895	0.0895	100.0	Pass
3	0.0850	0.0850	100.0	Pass
4	0.0619	0.0619	100.0	Pass
5	0.1019	0.1019	100.0	Pass
6	0.0406	0.0406	100.0	Pass
7	0.0603	0.0603	100.0	Pass
8	0.0839	0.0839	100.0	Pass
9	0.0636	0.0636	100.0	Pass
10	0.0597	0.0597	100.0	Pass
11	0.0438	0.0438	100.0	Pass
12	0.0523	0.0523	100.0	Pass
13	0.0834	0.0834	100.0	Pass
14	0.0357	0.0357	100.0	Pass
15	0.0688	0.0688	100.0	Pass
16	0.0315	0.0315	100.0	Pass
17	0.0431	0.0431	100.0	Pass
18	0.0301	0.0301	100.0	Pass
19	0.0344	0.0344	100.0	Pass
20	0.0371	0.0371	100.0	Pass
21	0.0376	0.0376	100.0	Pass
22	0.0210	0.0210	100.0	Pass
23	0.1029	0.1029	100.0	Pass
24	0.0299	0.0299	100.0	Pass
25	0.0466	0.0466	100.0	Pass
26	0.0280	0.0280	100.0	Pass
27	0.0248	0.0248	100.0	Pass
28	0.0254	0.0254	100.0	Pass

29	0.0333	0.0333	100.0	Pass
30	0.0729	0.0729	100.0	Pass
Jul11	0.0192	0.0192	100.0	Pass
2	0.0159	0.0159	100.0	Pass
3	0.0170	0.0170	100.0	Pass
4	0.0405	0.0405	100.0	Pass
5	0.0305	0.0305	100.0	Pass
6	0.0232	0.0232	100.0	Pass
7	0.0454	0.0454	100.0	Pass
8	0.0265	0.0265	100.0	Pass
9	0.0537	0.0537	100.0	Pass
10	0.0356	0.0356	100.0	Pass
11	0.0732	0.0732	100.0	Pass
12	0.0396	0.0396	100.0	Pass
13	0.0287	0.0287	100.0	Pass
14	0.0423	0.0423	100.0	Pass
15	0.0174	0.0174	100.0	Pass
16	0.0109	0.0109	100.0	Pass
17	0.0358	0.0358	100.0	Pass
18	0.0128	0.0128	100.0	Pass
19	0.0151	0.0151	100.0	Pass
20	0.0258	0.0258	100.0	Pass
21	0.0210	0.0210	100.0	Pass
22	0.0024	0.0024	100.0	Pass
23	0.0060	0.0060	100.0	Pass
24	0.0067	0.0067	100.0	Pass
25	0.0147	0.0147	100.0	Pass
26	0.0061	0.0061	100.0	Pass
27	0.0092	0.0092	100.0	Pass
28	0.0076	0.0076	100.0	Pass
29	0.0050	0.0050	100.0	Pass
30	0.0085	0.0085	100.0	Pass
31	0.0099	0.0099	100.0	Pass
Aug1	0.0405	0.0405	100.0	Pass
2	0.0146	0.0146	100.0	Pass
3	0.0058	0.0058	100.0	Pass
4	0.0056	0.0056	100.0	Pass
5	0.0464	0.0464	100.0	Pass
6	0.0316	0.0316	100.0	Pass
7	0.0117	0.0117	100.0	Pass
8	0.0116	0.0116	100.0	Pass
9	0.0010	0.0010	100.0	Pass
10	0.0060	0.0060	100.0	Pass
11	0.0295	0.0295	100.0	Pass
12	0.0253	0.0253	100.0	Pass
13	0.0320	0.0320	100.0	Pass
14	0.0201	0.0201	100.0	Pass
15	0.0184	0.0184	100.0	Pass
16	0.0154	0.0154	100.0	Pass
17	0.0293	0.0293	100.0	Pass
18	0.0565	0.0565	100.0	Pass
19	0.0166	0.0166	100.0	Pass
20	0.0441	0.0441	100.0	Pass
21	0.0413	0.0413	100.0	Pass
22	0.0799	0.0799	100.0	Pass
23	0.0763	0.0763	100.0	Pass
24	0.0684	0.0684	100.0	Pass

25	0.0289	0.0289	100.0	Pass
26	0.0777	0.0777	100.0	Pass
27	0.0802	0.0802	100.0	Pass
28	0.0814	0.0814	100.0	Pass
29	0.0516	0.0516	100.0	Pass
30	0.0807	0.0807	100.0	Pass
31	0.1291	0.1291	100.0	Pass
Sep1	0.0539	0.0539	100.0	Pass
2	0.0533	0.0533	100.0	Pass
3	0.0564	0.0564	100.0	Pass
4	0.0696	0.0696	100.0	Pass
5	0.0600	0.0600	100.0	Pass
6	0.0416	0.0416	100.0	Pass
7	0.0783	0.0783	100.0	Pass
8	0.0513	0.0513	100.0	Pass
9	0.1270	0.1270	100.0	Pass
10	0.0322	0.0322	100.0	Pass
11	0.0263	0.0263	100.0	Pass
12	0.0671	0.0671	100.0	Pass
13	0.1267	0.1267	100.0	Pass
14	0.0831	0.0831	100.0	Pass
15	0.1238	0.1238	100.0	Pass
16	0.1344	0.1344	100.0	Pass
17	0.1446	0.1446	100.0	Pass
18	0.1306	0.1306	100.0	Pass
19	0.1411	0.1411	100.0	Pass
20	0.1059	0.1059	100.0	Pass
21	0.1445	0.1445	100.0	Pass
22	0.1167	0.1167	100.0	Pass
23	0.0918	0.0918	100.0	Pass
24	0.0659	0.0659	100.0	Pass
25	0.0681	0.0681	100.0	Pass
26	0.0688	0.0688	100.0	Pass
27	0.0944	0.0944	100.0	Pass
28	0.0815	0.0815	100.0	Pass
29	0.1067	0.1067	100.0	Pass
30	0.0793	0.0793	100.0	Pass
Oct1	0.0565	0.0565	100.0	Pass
2	0.1355	0.1355	100.0	Pass
3	0.1225	0.1225	100.0	Pass
4	0.1511	0.1511	100.0	Pass
5	0.1611	0.1611	100.0	Pass
6	0.1776	0.1776	100.0	Pass
7	0.2282	0.2282	100.0	Pass
8	0.1890	0.1890	100.0	Pass
9	0.1482	0.1482	100.0	Pass
10	0.1215	0.1215	100.0	Pass
11	0.2217	0.2217	100.0	Pass
12	0.1533	0.1533	100.0	Pass
13	0.2089	0.2089	100.0	Pass
14	0.1252	0.1252	100.0	Pass
15	0.1442	0.1442	100.0	Pass
16	0.1934	0.1934	100.0	Pass
17	0.1778	0.1778	100.0	Pass
18	0.2823	0.2823	100.0	Pass
19	0.3500	0.3500	100.0	Pass
20	0.3039	0.3039	100.0	Pass

21	0.3662	0.3662	100.0	Pass
22	0.2252	0.2252	100.0	Pass
23	0.3568	0.3568	100.0	Pass
24	0.3164	0.3164	100.0	Pass
25	0.2849	0.2849	100.0	Pass
26	0.3410	0.3410	100.0	Pass
27	0.2947	0.2947	100.0	Pass
28	0.2738	0.2738	100.0	Pass
29	0.2337	0.2337	100.0	Pass
30	0.3350	0.3350	100.0	Pass
31	0.2890	0.2890	100.0	Pass
Nov1	0.3612	0.3612	100.0	Pass
2	0.4306	0.4306	100.0	Pass
3	0.3463	0.3463	100.0	Pass
4	0.3463	0.3463	100.0	Pass
5	0.3823	0.3823	100.0	Pass
6	0.3247	0.3247	100.0	Pass
7	0.2939	0.2939	100.0	Pass
8	0.3704	0.3704	100.0	Pass
9	0.4385	0.4385	100.0	Pass
10	0.3808	0.3808	100.0	Pass
11	0.4231	0.4231	100.0	Pass
12	0.3917	0.3917	100.0	Pass
13	0.3022	0.3022	100.0	Pass
14	0.3444	0.3444	100.0	Pass
15	0.3856	0.3856	100.0	Pass
16	0.4023	0.4023	100.0	Pass
17	0.3713	0.3713	100.0	Pass
18	0.5374	0.5374	100.0	Pass
19	0.4882	0.4882	100.0	Pass
20	0.3326	0.3326	100.0	Pass
21	0.5037	0.5037	100.0	Pass
22	0.5899	0.5899	100.0	Pass
23	0.4634	0.4634	100.0	Pass
24	0.5237	0.5237	100.0	Pass
25	0.3573	0.3573	100.0	Pass
26	0.2902	0.2902	100.0	Pass
27	0.3409	0.3409	100.0	Pass
28	0.3259	0.3259	100.0	Pass
29	0.5298	0.5298	100.0	Pass
30	0.4346	0.4346	100.0	Pass
Dec1	0.4754	0.4754	100.0	Pass
2	0.4645	0.4645	100.0	Pass
3	0.3060	0.3060	100.0	Pass
4	0.3308	0.3308	100.0	Pass
5	0.2875	0.2875	100.0	Pass
6	0.2474	0.2474	100.0	Pass
7	0.3475	0.3475	100.0	Pass
8	0.4360	0.4360	100.0	Pass
9	0.4383	0.4383	100.0	Pass
10	0.4745	0.4745	100.0	Pass
11	0.3518	0.3518	100.0	Pass
12	0.3763	0.3763	100.0	Pass
13	0.5479	0.5479	100.0	Pass
14	0.3953	0.3953	100.0	Pass
15	0.5023	0.5023	100.0	Pass
16	0.3508	0.3508	100.0	Pass

17	0.4077	0.4077	100.0	Pass
18	0.3390	0.3390	100.0	Pass
19	0.3901	0.3901	100.0	Pass
20	0.3866	0.3866	100.0	Pass
21	0.4256	0.4256	100.0	Pass
22	0.4178	0.4178	100.0	Pass
23	0.4523	0.4523	100.0	Pass
24	0.4979	0.4979	100.0	Pass
25	0.4410	0.4410	100.0	Pass
26	0.4032	0.4032	100.0	Pass
27	0.2753	0.2753	100.0	Pass
28	0.4178	0.4178	100.0	Pass
29	0.2863	0.2863	100.0	Pass
30	0.2927	0.2927	100.0	Pass
31	0.4823	0.4823	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #4
Total Pervious Area:0.293
Total Impervious Area:0.622

Mitigated Landuse Totals for POC #4
Total Pervious Area:0.293
Total Impervious Area:0.622

Flow Frequency Return Periods for Predeveloped. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.505233
5 year	0.61213
10 year	0.670801
25 year	0.734833
50 year	0.776738
100 year	0.814634

Flow Frequency Return Periods for Mitigated. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.505233
5 year	0.61213
10 year	0.670801
25 year	0.734833
50 year	0.776738
100 year	0.814634

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #4

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.558	0.558
1957	0.663	0.663

1958	0.496	0.496
1959	0.530	0.530
1960	0.555	0.555
1961	0.405	0.405
1962	0.731	0.731
1963	0.660	0.660
1964	0.553	0.553
1965	0.561	0.561
1966	0.563	0.563
1967	0.337	0.337
1968	0.529	0.529
1969	0.515	0.515
1970	0.451	0.451
1971	0.743	0.743
1972	0.637	0.637
1973	0.561	0.561
1974	0.565	0.565
1975	0.487	0.487
1976	0.602	0.602
1977	0.423	0.423
1978	0.741	0.741
1979	0.471	0.471
1980	0.426	0.426
1981	0.542	0.542
1982	0.624	0.624
1983	0.494	0.494
1984	0.473	0.473
1985	0.326	0.326
1986	0.564	0.564
1987	0.389	0.389
1988	0.601	0.601
1989	0.491	0.491
1990	0.668	0.668
1991	0.402	0.402
1992	0.315	0.315
1993	0.347	0.347
1994	0.474	0.474
1995	0.418	0.418
1996	0.518	0.518
1997	0.542	0.542
1998	0.331	0.331
1999	0.429	0.429
2000	0.393	0.393
2001	0.362	0.362
2002	0.527	0.527
2003	0.719	0.719
2004	0.656	0.656
2005	0.508	0.508
2006	0.524	0.524
2007	0.624	0.624
2008	0.302	0.302
2009	0.282	0.282

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank Predeveloped Mitigated

1	0.7427	0.7427
2	0.7410	0.7410
3	0.7307	0.7307
4	0.7189	0.7189
5	0.6677	0.6677
6	0.6635	0.6635
7	0.6599	0.6599
8	0.6560	0.6560
9	0.6366	0.6366
10	0.6244	0.6244
11	0.6239	0.6239
12	0.6018	0.6018
13	0.6015	0.6015
14	0.5648	0.5648
15	0.5635	0.5635
16	0.5625	0.5625
17	0.5609	0.5609
18	0.5609	0.5609
19	0.5583	0.5583
20	0.5550	0.5550
21	0.5527	0.5527
22	0.5421	0.5421
23	0.5415	0.5415
24	0.5300	0.5300
25	0.5294	0.5294
26	0.5269	0.5269
27	0.5235	0.5235
28	0.5179	0.5179
29	0.5150	0.5150
30	0.5084	0.5084
31	0.4957	0.4957
32	0.4940	0.4940
33	0.4908	0.4908
34	0.4872	0.4872
35	0.4742	0.4742
36	0.4725	0.4725
37	0.4712	0.4712
38	0.4508	0.4508
39	0.4287	0.4287
40	0.4259	0.4259
41	0.4230	0.4230
42	0.4178	0.4178
43	0.4047	0.4047
44	0.4021	0.4021
45	0.3928	0.3928
46	0.3895	0.3895
47	0.3623	0.3623
48	0.3474	0.3474
49	0.3367	0.3367
50	0.3311	0.3311
51	0.3264	0.3264
52	0.3145	0.3145
53	0.3022	0.3022
54	0.2819	0.2819

Stream Protection Duration

POC #4

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2526	940	940	100	Pass
0.2579	868	868	100	Pass
0.2632	793	793	100	Pass
0.2685	760	760	100	Pass
0.2738	704	704	100	Pass
0.2791	637	637	100	Pass
0.2844	593	593	100	Pass
0.2897	569	569	100	Pass
0.2950	530	530	100	Pass
0.3003	482	482	100	Pass
0.3056	454	454	100	Pass
0.3109	419	419	100	Pass
0.3161	393	393	100	Pass
0.3214	374	374	100	Pass
0.3267	351	351	100	Pass
0.3320	324	324	100	Pass
0.3373	301	301	100	Pass
0.3426	278	278	100	Pass
0.3479	265	265	100	Pass
0.3532	242	242	100	Pass
0.3585	224	224	100	Pass
0.3638	216	216	100	Pass
0.3691	209	209	100	Pass
0.3744	195	195	100	Pass
0.3797	185	185	100	Pass
0.3850	176	176	100	Pass
0.3903	166	166	100	Pass
0.3956	153	153	100	Pass
0.4009	148	148	100	Pass
0.4061	139	139	100	Pass
0.4114	135	135	100	Pass
0.4167	131	131	100	Pass
0.4220	123	123	100	Pass
0.4273	111	111	100	Pass
0.4326	106	106	100	Pass
0.4379	99	99	100	Pass
0.4432	95	95	100	Pass
0.4485	93	93	100	Pass
0.4538	90	90	100	Pass
0.4591	86	86	100	Pass
0.4644	81	81	100	Pass
0.4697	80	80	100	Pass
0.4750	74	74	100	Pass
0.4803	71	71	100	Pass
0.4856	67	67	100	Pass
0.4909	64	64	100	Pass
0.4961	57	57	100	Pass
0.5014	52	52	100	Pass
0.5067	51	51	100	Pass
0.5120	50	50	100	Pass
0.5173	48	48	100	Pass

0.5226	46	46	100	Pass
0.5279	43	43	100	Pass
0.5332	41	41	100	Pass
0.5385	40	40	100	Pass
0.5438	35	35	100	Pass
0.5491	35	35	100	Pass
0.5544	34	34	100	Pass
0.5597	31	31	100	Pass
0.5650	26	26	100	Pass
0.5703	24	24	100	Pass
0.5756	24	24	100	Pass
0.5809	24	24	100	Pass
0.5861	23	23	100	Pass
0.5914	21	21	100	Pass
0.5967	20	20	100	Pass
0.6020	17	17	100	Pass
0.6073	16	16	100	Pass
0.6126	15	15	100	Pass
0.6179	15	15	100	Pass
0.6232	14	14	100	Pass
0.6285	12	12	100	Pass
0.6338	11	11	100	Pass
0.6391	10	10	100	Pass
0.6444	10	10	100	Pass
0.6497	10	10	100	Pass
0.6550	10	10	100	Pass
0.6603	8	8	100	Pass
0.6656	7	7	100	Pass
0.6709	6	6	100	Pass
0.6761	6	6	100	Pass
0.6814	6	6	100	Pass
0.6867	6	6	100	Pass
0.6920	5	5	100	Pass
0.6973	5	5	100	Pass
0.7026	5	5	100	Pass
0.7079	4	4	100	Pass
0.7132	4	4	100	Pass
0.7185	4	4	100	Pass
0.7238	3	3	100	Pass
0.7291	3	3	100	Pass
0.7344	2	2	100	Pass
0.7397	2	2	100	Pass
0.7450	0	0	100	Pass
0.7503	0	0	0	Pass
0.7556	0	0	0	Pass
0.7609	0	0	0	Pass
0.7661	0	0	0	Pass
0.7714	0	0	0	Pass
0.7767	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 4

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	33.9236	33.9236	100.0	Pass
Feb	26.0375	26.0375	100.0	Pass
Mar	23.0056	23.0056	100.0	Pass
Apr	12.6582	12.6582	100.0	Pass
May	6.5329	6.5329	100.0	Pass
Jun	4.2553	4.2553	100.0	Pass
Jul	2.0631	2.0631	100.0	Pass
Aug	3.0526	3.0526	100.0	Pass
Sep	7.1727	7.1727	100.0	Pass
Oct	18.1283	18.1283	100.0	Pass
Nov	31.8370	31.8370	100.0	Pass
Dec	32.7307	32.7307	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.0848	1.0848	100.0	Pass
2	0.8681	0.8681	100.0	Pass
3	1.0817	1.0817	100.0	Pass
4	1.2552	1.2552	100.0	Pass
5	0.9447	0.9447	100.0	Pass
6	1.3685	1.3685	100.0	Pass
7	1.0955	1.0955	100.0	Pass
8	1.0918	1.0918	100.0	Pass
9	1.1511	1.1511	100.0	Pass
10	1.1313	1.1313	100.0	Pass
11	1.3685	1.3685	100.0	Pass
12	1.1004	1.1004	100.0	Pass
13	1.3558	1.3558	100.0	Pass
14	1.3618	1.3618	100.0	Pass
15	1.2517	1.2517	100.0	Pass
16	1.0475	1.0475	100.0	Pass
17	0.9973	0.9973	100.0	Pass
18	0.8813	0.8813	100.0	Pass
19	0.8684	0.8684	100.0	Pass
20	0.5904	0.5904	100.0	Pass
21	1.0445	1.0445	100.0	Pass
22	1.2900	1.2900	100.0	Pass
23	1.4564	1.4564	100.0	Pass
24	1.0312	1.0312	100.0	Pass
25	0.8753	0.8753	100.0	Pass
26	0.7897	0.7897	100.0	Pass
27	0.9638	0.9638	100.0	Pass
28	1.2178	1.2178	100.0	Pass
29	0.9582	0.9582	100.0	Pass
30	1.1090	1.1090	100.0	Pass
31	0.6992	0.6992	100.0	Pass
Feb1	0.7731	0.7731	100.0	Pass
2	0.7011	0.7011	100.0	Pass
3	0.6382	0.6382	100.0	Pass
4	0.5913	0.5913	100.0	Pass
5	1.0455	1.0455	100.0	Pass

6	0.5712	0.5712	100.0	Pass
7	0.7836	0.7836	100.0	Pass
8	0.6101	0.6101	100.0	Pass
9	0.7136	0.7136	100.0	Pass
10	0.9404	0.9404	100.0	Pass
11	1.2479	1.2479	100.0	Pass
12	1.0069	1.0069	100.0	Pass
13	1.0639	1.0639	100.0	Pass
14	1.4604	1.4604	100.0	Pass
15	1.1115	1.1115	100.0	Pass
16	1.4125	1.4125	100.0	Pass
17	1.2644	1.2644	100.0	Pass
18	1.0243	1.0243	100.0	Pass
19	0.8866	0.8866	100.0	Pass
20	0.8480	0.8480	100.0	Pass
21	0.6951	0.6951	100.0	Pass
22	0.9865	0.9865	100.0	Pass
23	0.9471	0.9471	100.0	Pass
24	1.0408	1.0408	100.0	Pass
25	0.9415	0.9415	100.0	Pass
26	0.9313	0.9313	100.0	Pass
27	0.8199	0.8199	100.0	Pass
28	1.0233	1.0233	100.0	Pass
29	0.7832	0.7832	100.0	Pass
Mar1	0.7669	0.7669	100.0	Pass
2	0.6351	0.6351	100.0	Pass
3	0.8697	0.8697	100.0	Pass
4	0.9158	0.9158	100.0	Pass
5	0.7312	0.7312	100.0	Pass
6	0.9162	0.9162	100.0	Pass
7	0.8916	0.8916	100.0	Pass
8	0.8740	0.8740	100.0	Pass
9	0.8766	0.8766	100.0	Pass
10	0.7726	0.7726	100.0	Pass
11	0.8304	0.8304	100.0	Pass
12	0.7373	0.7373	100.0	Pass
13	0.8844	0.8844	100.0	Pass
14	0.7143	0.7143	100.0	Pass
15	0.5841	0.5841	100.0	Pass
16	0.5563	0.5563	100.0	Pass
17	0.7455	0.7455	100.0	Pass
18	0.4711	0.4711	100.0	Pass
19	0.6780	0.6780	100.0	Pass
20	0.5552	0.5552	100.0	Pass
21	0.9092	0.9092	100.0	Pass
22	1.0252	1.0252	100.0	Pass
23	0.8725	0.8725	100.0	Pass
24	0.5805	0.5805	100.0	Pass
25	0.8452	0.8452	100.0	Pass
26	0.6354	0.6354	100.0	Pass
27	0.5980	0.5980	100.0	Pass
28	0.6702	0.6702	100.0	Pass
29	0.6132	0.6132	100.0	Pass
30	0.4684	0.4684	100.0	Pass
31	0.3771	0.3771	100.0	Pass
Apr1	0.3957	0.3957	100.0	Pass
2	0.4399	0.4399	100.0	Pass

3	0.5909	0.5909	100.0	Pass
4	0.5473	0.5473	100.0	Pass
5	0.5951	0.5951	100.0	Pass
6	0.3324	0.3324	100.0	Pass
7	0.5192	0.5192	100.0	Pass
8	0.5308	0.5308	100.0	Pass
9	0.4689	0.4689	100.0	Pass
10	0.4700	0.4700	100.0	Pass
11	0.6247	0.6247	100.0	Pass
12	0.5492	0.5492	100.0	Pass
13	0.5684	0.5684	100.0	Pass
14	0.4917	0.4917	100.0	Pass
15	0.5254	0.5254	100.0	Pass
16	0.3036	0.3036	100.0	Pass
17	0.3971	0.3971	100.0	Pass
18	0.4534	0.4534	100.0	Pass
19	0.2588	0.2588	100.0	Pass
20	0.2429	0.2429	100.0	Pass
21	0.3953	0.3953	100.0	Pass
22	0.3336	0.3336	100.0	Pass
23	0.2958	0.2958	100.0	Pass
24	0.2398	0.2398	100.0	Pass
25	0.2821	0.2821	100.0	Pass
26	0.4721	0.4721	100.0	Pass
27	0.3725	0.3725	100.0	Pass
28	0.3888	0.3888	100.0	Pass
29	0.1974	0.1974	100.0	Pass
30	0.2480	0.2480	100.0	Pass
May1	0.3766	0.3766	100.0	Pass
2	0.2820	0.2820	100.0	Pass
3	0.2968	0.2968	100.0	Pass
4	0.2384	0.2384	100.0	Pass
5	0.2274	0.2274	100.0	Pass
6	0.1917	0.1917	100.0	Pass
7	0.2507	0.2507	100.0	Pass
8	0.1578	0.1578	100.0	Pass
9	0.2144	0.2144	100.0	Pass
10	0.1726	0.1726	100.0	Pass
11	0.1616	0.1616	100.0	Pass
12	0.2298	0.2298	100.0	Pass
13	0.2470	0.2470	100.0	Pass
14	0.2416	0.2416	100.0	Pass
15	0.1670	0.1670	100.0	Pass
16	0.2098	0.2098	100.0	Pass
17	0.1742	0.1742	100.0	Pass
18	0.2750	0.2750	100.0	Pass
19	0.1499	0.1499	100.0	Pass
20	0.1430	0.1430	100.0	Pass
21	0.1461	0.1461	100.0	Pass
22	0.1770	0.1770	100.0	Pass
23	0.1577	0.1577	100.0	Pass
24	0.1657	0.1657	100.0	Pass
25	0.1396	0.1396	100.0	Pass
26	0.2383	0.2383	100.0	Pass
27	0.1896	0.1896	100.0	Pass
28	0.2037	0.2037	100.0	Pass
29	0.2778	0.2778	100.0	Pass

30	0.1829	0.1829	100.0	Pass
31	0.1990	0.1990	100.0	Pass
Jun1	0.1521	0.1521	100.0	Pass
2	0.2400	0.2400	100.0	Pass
3	0.2279	0.2279	100.0	Pass
4	0.1661	0.1661	100.0	Pass
5	0.2732	0.2732	100.0	Pass
6	0.1089	0.1089	100.0	Pass
7	0.1617	0.1617	100.0	Pass
8	0.2250	0.2250	100.0	Pass
9	0.1705	0.1705	100.0	Pass
10	0.1602	0.1602	100.0	Pass
11	0.1174	0.1174	100.0	Pass
12	0.1402	0.1402	100.0	Pass
13	0.2236	0.2236	100.0	Pass
14	0.0957	0.0957	100.0	Pass
15	0.1845	0.1845	100.0	Pass
16	0.0846	0.0846	100.0	Pass
17	0.1156	0.1156	100.0	Pass
18	0.0807	0.0807	100.0	Pass
19	0.0922	0.0922	100.0	Pass
20	0.0994	0.0994	100.0	Pass
21	0.1009	0.1009	100.0	Pass
22	0.0562	0.0562	100.0	Pass
23	0.2759	0.2759	100.0	Pass
24	0.0802	0.0802	100.0	Pass
25	0.1250	0.1250	100.0	Pass
26	0.0750	0.0750	100.0	Pass
27	0.0666	0.0666	100.0	Pass
28	0.0682	0.0682	100.0	Pass
29	0.0894	0.0894	100.0	Pass
30	0.1955	0.1955	100.0	Pass
Jul1	0.0514	0.0514	100.0	Pass
2	0.0427	0.0427	100.0	Pass
3	0.0455	0.0455	100.0	Pass
4	0.1087	0.1087	100.0	Pass
5	0.0819	0.0819	100.0	Pass
6	0.0623	0.0623	100.0	Pass
7	0.1218	0.1218	100.0	Pass
8	0.0711	0.0711	100.0	Pass
9	0.1441	0.1441	100.0	Pass
10	0.0955	0.0955	100.0	Pass
11	0.1964	0.1964	100.0	Pass
12	0.1063	0.1063	100.0	Pass
13	0.0769	0.0769	100.0	Pass
14	0.1133	0.1133	100.0	Pass
15	0.0466	0.0466	100.0	Pass
16	0.0292	0.0292	100.0	Pass
17	0.0960	0.0960	100.0	Pass
18	0.0344	0.0344	100.0	Pass
19	0.0405	0.0405	100.0	Pass
20	0.0692	0.0692	100.0	Pass
21	0.0562	0.0562	100.0	Pass
22	0.0064	0.0064	100.0	Pass
23	0.0161	0.0161	100.0	Pass
24	0.0180	0.0180	100.0	Pass
25	0.0395	0.0395	100.0	Pass

26	0.0163	0.0163	100.0	Pass
27	0.0247	0.0247	100.0	Pass
28	0.0205	0.0205	100.0	Pass
29	0.0133	0.0133	100.0	Pass
30	0.0227	0.0227	100.0	Pass
31	0.0264	0.0264	100.0	Pass
Aug1	0.1087	0.1087	100.0	Pass
2	0.0391	0.0391	100.0	Pass
3	0.0155	0.0155	100.0	Pass
4	0.0151	0.0151	100.0	Pass
5	0.1244	0.1244	100.0	Pass
6	0.0847	0.0847	100.0	Pass
7	0.0314	0.0314	100.0	Pass
8	0.0311	0.0311	100.0	Pass
9	0.0028	0.0028	100.0	Pass
10	0.0161	0.0161	100.0	Pass
11	0.0791	0.0791	100.0	Pass
12	0.0680	0.0680	100.0	Pass
13	0.0859	0.0859	100.0	Pass
14	0.0540	0.0540	100.0	Pass
15	0.0492	0.0492	100.0	Pass
16	0.0413	0.0413	100.0	Pass
17	0.0785	0.0785	100.0	Pass
18	0.1515	0.1515	100.0	Pass
19	0.0446	0.0446	100.0	Pass
20	0.1183	0.1183	100.0	Pass
21	0.1106	0.1106	100.0	Pass
22	0.2142	0.2142	100.0	Pass
23	0.2046	0.2046	100.0	Pass
24	0.1834	0.1834	100.0	Pass
25	0.0776	0.0776	100.0	Pass
26	0.2084	0.2084	100.0	Pass
27	0.2151	0.2151	100.0	Pass
28	0.2182	0.2182	100.0	Pass
29	0.1385	0.1385	100.0	Pass
30	0.2163	0.2163	100.0	Pass
31	0.3463	0.3463	100.0	Pass
Sep1	0.1447	0.1447	100.0	Pass
2	0.1429	0.1429	100.0	Pass
3	0.1514	0.1514	100.0	Pass
4	0.1866	0.1866	100.0	Pass
5	0.1610	0.1610	100.0	Pass
6	0.1117	0.1117	100.0	Pass
7	0.2101	0.2101	100.0	Pass
8	0.1375	0.1375	100.0	Pass
9	0.3405	0.3405	100.0	Pass
10	0.0863	0.0863	100.0	Pass
11	0.0706	0.0706	100.0	Pass
12	0.1800	0.1800	100.0	Pass
13	0.3397	0.3397	100.0	Pass
14	0.2228	0.2228	100.0	Pass
15	0.3319	0.3319	100.0	Pass
16	0.3606	0.3606	100.0	Pass
17	0.3877	0.3877	100.0	Pass
18	0.3503	0.3503	100.0	Pass
19	0.3785	0.3785	100.0	Pass
20	0.2841	0.2841	100.0	Pass

21	0.3876	0.3876	100.0	Pass
22	0.3130	0.3130	100.0	Pass
23	0.2461	0.2461	100.0	Pass
24	0.1768	0.1768	100.0	Pass
25	0.1828	0.1828	100.0	Pass
26	0.1845	0.1845	100.0	Pass
27	0.2531	0.2531	100.0	Pass
28	0.2185	0.2185	100.0	Pass
29	0.2862	0.2862	100.0	Pass
30	0.2127	0.2127	100.0	Pass
Oct1	0.1515	0.1515	100.0	Pass
2	0.3634	0.3634	100.0	Pass
3	0.3286	0.3286	100.0	Pass
4	0.4052	0.4052	100.0	Pass
5	0.4321	0.4321	100.0	Pass
6	0.4763	0.4763	100.0	Pass
7	0.6121	0.6121	100.0	Pass
8	0.5070	0.5070	100.0	Pass
9	0.3976	0.3976	100.0	Pass
10	0.3260	0.3260	100.0	Pass
11	0.5945	0.5945	100.0	Pass
12	0.4112	0.4112	100.0	Pass
13	0.5604	0.5604	100.0	Pass
14	0.3359	0.3359	100.0	Pass
15	0.3869	0.3869	100.0	Pass
16	0.5189	0.5189	100.0	Pass
17	0.4769	0.4769	100.0	Pass
18	0.7571	0.7571	100.0	Pass
19	0.9389	0.9389	100.0	Pass
20	0.8151	0.8151	100.0	Pass
21	0.9823	0.9823	100.0	Pass
22	0.6042	0.6042	100.0	Pass
23	0.9571	0.9571	100.0	Pass
24	0.8488	0.8488	100.0	Pass
25	0.7643	0.7643	100.0	Pass
26	0.9148	0.9148	100.0	Pass
27	0.7906	0.7906	100.0	Pass
28	0.7344	0.7344	100.0	Pass
29	0.6269	0.6269	100.0	Pass
30	0.8986	0.8986	100.0	Pass
31	0.7755	0.7755	100.0	Pass
Nov1	0.9689	0.9689	100.0	Pass
2	1.1550	1.1550	100.0	Pass
3	0.9292	0.9292	100.0	Pass
4	0.9291	0.9291	100.0	Pass
5	1.0255	1.0255	100.0	Pass
6	0.8713	0.8713	100.0	Pass
7	0.7885	0.7885	100.0	Pass
8	0.9937	0.9937	100.0	Pass
9	1.1764	1.1764	100.0	Pass
10	1.0217	1.0217	100.0	Pass
11	1.1352	1.1352	100.0	Pass
12	1.0510	1.0510	100.0	Pass
13	0.8108	0.8108	100.0	Pass
14	0.9240	0.9240	100.0	Pass
15	1.0344	1.0344	100.0	Pass
16	1.0792	1.0792	100.0	Pass

17	0.9962	0.9962	100.0	Pass
18	1.4417	1.4417	100.0	Pass
19	1.3097	1.3097	100.0	Pass
20	0.8923	0.8923	100.0	Pass
21	1.3513	1.3513	100.0	Pass
22	1.5824	1.5824	100.0	Pass
23	1.2434	1.2434	100.0	Pass
24	1.4049	1.4049	100.0	Pass
25	0.9589	0.9589	100.0	Pass
26	0.7788	0.7788	100.0	Pass
27	0.9147	0.9147	100.0	Pass
28	0.8743	0.8743	100.0	Pass
29	1.4212	1.4212	100.0	Pass
30	1.1660	1.1660	100.0	Pass
Dec1	1.2753	1.2753	100.0	Pass
2	1.2463	1.2463	100.0	Pass
3	0.8210	0.8210	100.0	Pass
4	0.8875	0.8875	100.0	Pass
5	0.7715	0.7715	100.0	Pass
6	0.6639	0.6639	100.0	Pass
7	0.9322	0.9322	100.0	Pass
8	1.1696	1.1696	100.0	Pass
9	1.1760	1.1760	100.0	Pass
10	1.2729	1.2729	100.0	Pass
11	0.9440	0.9440	100.0	Pass
12	1.0096	1.0096	100.0	Pass
13	1.4699	1.4699	100.0	Pass
14	1.0607	1.0607	100.0	Pass
15	1.3476	1.3476	100.0	Pass
16	0.9413	0.9413	100.0	Pass
17	1.0939	1.0939	100.0	Pass
18	0.9096	0.9096	100.0	Pass
19	1.0467	1.0467	100.0	Pass
20	1.0372	1.0372	100.0	Pass
21	1.1418	1.1418	100.0	Pass
22	1.1208	1.1208	100.0	Pass
23	1.2136	1.2136	100.0	Pass
24	1.3356	1.3356	100.0	Pass
25	1.1831	1.1831	100.0	Pass
26	1.0818	1.0818	100.0	Pass
27	0.7388	0.7388	100.0	Pass
28	1.1209	1.1209	100.0	Pass
29	0.7683	0.7683	100.0	Pass
30	0.7854	0.7854	100.0	Pass
31	1.2938	1.2938	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #5
Total Pervious Area:0.109
Total Impervious Area:0.232

Mitigated Landuse Totals for POC #5
 Total Pervious Area:0.109
 Total Impervious Area:0.232

Flow Frequency Return Periods for Predeveloped. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.188353
5 year	0.22819
10 year	0.250053
25 year	0.273914
50 year	0.289528
100 year	0.303649

Flow Frequency Return Periods for Mitigated. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.188353
5 year	0.22819
10 year	0.250053
25 year	0.273914
50 year	0.289528
100 year	0.303649

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #5

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.208	0.208
1957	0.247	0.247
1958	0.185	0.185
1959	0.198	0.198
1960	0.207	0.207
1961	0.151	0.151
1962	0.272	0.272
1963	0.246	0.246
1964	0.206	0.206
1965	0.209	0.209
1966	0.210	0.210
1967	0.126	0.126
1968	0.197	0.197
1969	0.192	0.192
1970	0.168	0.168
1971	0.277	0.277
1972	0.237	0.237
1973	0.209	0.209
1974	0.211	0.211
1975	0.182	0.182
1976	0.224	0.224
1977	0.158	0.158
1978	0.276	0.276
1979	0.176	0.176
1980	0.159	0.159
1981	0.202	0.202
1982	0.233	0.233
1983	0.184	0.184
1984	0.176	0.176

1985	0.122	0.122
1986	0.210	0.210
1987	0.145	0.145
1988	0.224	0.224
1989	0.183	0.183
1990	0.249	0.249
1991	0.150	0.150
1992	0.117	0.117
1993	0.130	0.130
1994	0.177	0.177
1995	0.156	0.156
1996	0.193	0.193
1997	0.202	0.202
1998	0.123	0.123
1999	0.160	0.160
2000	0.146	0.146
2001	0.135	0.135
2002	0.197	0.197
2003	0.268	0.268
2004	0.245	0.245
2005	0.190	0.190
2006	0.195	0.195
2007	0.233	0.233
2008	0.113	0.113
2009	0.105	0.105

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	0.2769	0.2769
2	0.2762	0.2762
3	0.2724	0.2724
4	0.2680	0.2680
5	0.2489	0.2489
6	0.2473	0.2473
7	0.2460	0.2460
8	0.2446	0.2446
9	0.2373	0.2373
10	0.2327	0.2327
11	0.2326	0.2326
12	0.2243	0.2243
13	0.2242	0.2242
14	0.2105	0.2105
15	0.2101	0.2101
16	0.2097	0.2097
17	0.2091	0.2091
18	0.2091	0.2091
19	0.2081	0.2081
20	0.2069	0.2069
21	0.2060	0.2060
22	0.2021	0.2021
23	0.2019	0.2019
24	0.1976	0.1976
25	0.1973	0.1973
26	0.1965	0.1965
27	0.1952	0.1952

28	0.1931	0.1931
29	0.1920	0.1920
30	0.1895	0.1895
31	0.1848	0.1848
32	0.1842	0.1842
33	0.1830	0.1830
34	0.1816	0.1816
35	0.1768	0.1768
36	0.1761	0.1761
37	0.1756	0.1756
38	0.1681	0.1681
39	0.1598	0.1598
40	0.1588	0.1588
41	0.1577	0.1577
42	0.1558	0.1558
43	0.1509	0.1509
44	0.1499	0.1499
45	0.1464	0.1464
46	0.1452	0.1452
47	0.1351	0.1351
48	0.1295	0.1295
49	0.1255	0.1255
50	0.1235	0.1235
51	0.1217	0.1217
52	0.1173	0.1173
53	0.1127	0.1127
54	0.1051	0.1051

Stream Protection Duration

POC #5

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0942	933	933	100	Pass
0.0961	863	863	100	Pass
0.0981	791	791	100	Pass
0.1001	755	755	100	Pass
0.1021	696	696	100	Pass
0.1040	641	641	100	Pass
0.1060	590	590	100	Pass
0.1080	567	567	100	Pass
0.1100	524	524	100	Pass
0.1119	480	480	100	Pass
0.1139	451	451	100	Pass
0.1159	419	419	100	Pass
0.1179	393	393	100	Pass
0.1198	372	372	100	Pass
0.1218	345	345	100	Pass
0.1238	326	326	100	Pass
0.1257	300	300	100	Pass
0.1277	277	277	100	Pass
0.1297	260	260	100	Pass
0.1317	242	242	100	Pass
0.1336	224	224	100	Pass

0.1356	214	214	100	Pass
0.1376	209	209	100	Pass
0.1396	194	194	100	Pass
0.1415	185	185	100	Pass
0.1435	176	176	100	Pass
0.1455	166	166	100	Pass
0.1475	152	152	100	Pass
0.1494	147	147	100	Pass
0.1514	139	139	100	Pass
0.1534	135	135	100	Pass
0.1553	129	129	100	Pass
0.1573	123	123	100	Pass
0.1593	111	111	100	Pass
0.1613	106	106	100	Pass
0.1632	98	98	100	Pass
0.1652	95	95	100	Pass
0.1672	93	93	100	Pass
0.1692	89	89	100	Pass
0.1711	86	86	100	Pass
0.1731	80	80	100	Pass
0.1751	80	80	100	Pass
0.1771	72	72	100	Pass
0.1790	70	70	100	Pass
0.1810	67	67	100	Pass
0.1830	64	64	100	Pass
0.1849	57	57	100	Pass
0.1869	51	51	100	Pass
0.1889	51	51	100	Pass
0.1909	50	50	100	Pass
0.1928	48	48	100	Pass
0.1948	46	46	100	Pass
0.1968	43	43	100	Pass
0.1988	41	41	100	Pass
0.2007	40	40	100	Pass
0.2027	35	35	100	Pass
0.2047	35	35	100	Pass
0.2067	34	34	100	Pass
0.2086	31	31	100	Pass
0.2106	26	26	100	Pass
0.2126	24	24	100	Pass
0.2145	24	24	100	Pass
0.2165	24	24	100	Pass
0.2185	23	23	100	Pass
0.2205	21	21	100	Pass
0.2224	20	20	100	Pass
0.2244	17	17	100	Pass
0.2264	16	16	100	Pass
0.2284	15	15	100	Pass
0.2303	15	15	100	Pass
0.2323	14	14	100	Pass
0.2343	12	12	100	Pass
0.2363	11	11	100	Pass
0.2382	10	10	100	Pass
0.2402	10	10	100	Pass
0.2422	10	10	100	Pass
0.2441	10	10	100	Pass
0.2461	8	8	100	Pass

0.2481	7	7	100	Pass
0.2501	6	6	100	Pass
0.2520	6	6	100	Pass
0.2540	6	6	100	Pass
0.2560	5	5	100	Pass
0.2580	5	5	100	Pass
0.2599	5	5	100	Pass
0.2619	4	4	100	Pass
0.2639	4	4	100	Pass
0.2658	4	4	100	Pass
0.2678	4	4	100	Pass
0.2698	3	3	100	Pass
0.2718	3	3	100	Pass
0.2737	2	2	100	Pass
0.2757	2	2	100	Pass
0.2777	0	0	100	Pass
0.2797	0	0	0	Pass
0.2816	0	0	0	Pass
0.2836	0	0	0	Pass
0.2856	0	0	0	Pass
0.2876	0	0	0	Pass
0.2895	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #5

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 5

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	12.6442	12.6442	100.0	Pass
Feb	9.7049	9.7049	100.0	Pass
Mar	8.5748	8.5748	100.0	Pass
Apr	4.7185	4.7185	100.0	Pass
May	2.4355	2.4355	100.0	Pass
Jun	1.5865	1.5865	100.0	Pass
Jul	0.7692	0.7692	100.0	Pass
Aug	1.1383	1.1383	100.0	Pass
Sep	2.6743	2.6743	100.0	Pass
Oct	6.7579	6.7579	100.0	Pass
Nov	11.8671	11.8671	100.0	Pass
Dec	12.1996	12.1996	100.0	Pass

Day Predevel Mitigated Percent Pass/Fail

Jan1	0.4043	0.4043	100.0	Pass
2	0.3235	0.3235	100.0	Pass
3	0.4032	0.4032	100.0	Pass
4	0.4679	0.4679	100.0	Pass
5	0.3521	0.3521	100.0	Pass
6	0.5101	0.5101	100.0	Pass

7	0.4083	0.4083	100.0	Pass
8	0.4070	0.4070	100.0	Pass
9	0.4291	0.4291	100.0	Pass
10	0.4217	0.4217	100.0	Pass
11	0.5101	0.5101	100.0	Pass
12	0.4101	0.4101	100.0	Pass
13	0.5054	0.5054	100.0	Pass
14	0.5076	0.5076	100.0	Pass
15	0.4665	0.4665	100.0	Pass
16	0.3904	0.3904	100.0	Pass
17	0.3717	0.3717	100.0	Pass
18	0.3284	0.3284	100.0	Pass
19	0.3237	0.3237	100.0	Pass
20	0.2200	0.2200	100.0	Pass
21	0.3894	0.3894	100.0	Pass
22	0.4809	0.4809	100.0	Pass
23	0.5429	0.5429	100.0	Pass
24	0.3843	0.3843	100.0	Pass
25	0.3262	0.3262	100.0	Pass
26	0.2943	0.2943	100.0	Pass
27	0.3593	0.3593	100.0	Pass
28	0.4539	0.4539	100.0	Pass
29	0.3571	0.3571	100.0	Pass
30	0.4134	0.4134	100.0	Pass
31	0.2606	0.2606	100.0	Pass
Feb1	0.2882	0.2882	100.0	Pass
2	0.2613	0.2613	100.0	Pass
3	0.2379	0.2379	100.0	Pass
4	0.2204	0.2204	100.0	Pass
5	0.3897	0.3897	100.0	Pass
6	0.2129	0.2129	100.0	Pass
7	0.2921	0.2921	100.0	Pass
8	0.2274	0.2274	100.0	Pass
9	0.2660	0.2660	100.0	Pass
10	0.3506	0.3506	100.0	Pass
11	0.4652	0.4652	100.0	Pass
12	0.3753	0.3753	100.0	Pass
13	0.3965	0.3965	100.0	Pass
14	0.5444	0.5444	100.0	Pass
15	0.4143	0.4143	100.0	Pass
16	0.5265	0.5265	100.0	Pass
17	0.4713	0.4713	100.0	Pass
18	0.3817	0.3817	100.0	Pass
19	0.3304	0.3304	100.0	Pass
20	0.3160	0.3160	100.0	Pass
21	0.2591	0.2591	100.0	Pass
22	0.3677	0.3677	100.0	Pass
23	0.3530	0.3530	100.0	Pass
24	0.3879	0.3879	100.0	Pass
25	0.3509	0.3509	100.0	Pass
26	0.3471	0.3471	100.0	Pass
27	0.3056	0.3056	100.0	Pass
28	0.3814	0.3814	100.0	Pass
29	0.2919	0.2919	100.0	Pass
Mar1	0.2858	0.2858	100.0	Pass
2	0.2367	0.2367	100.0	Pass
3	0.3242	0.3242	100.0	Pass

4	0.3413	0.3413	100.0	Pass
5	0.2725	0.2725	100.0	Pass
6	0.3415	0.3415	100.0	Pass
7	0.3324	0.3324	100.0	Pass
8	0.3258	0.3258	100.0	Pass
9	0.3267	0.3267	100.0	Pass
10	0.2879	0.2879	100.0	Pass
11	0.3095	0.3095	100.0	Pass
12	0.2748	0.2748	100.0	Pass
13	0.3296	0.3296	100.0	Pass
14	0.2662	0.2662	100.0	Pass
15	0.2177	0.2177	100.0	Pass
16	0.2073	0.2073	100.0	Pass
17	0.2779	0.2779	100.0	Pass
18	0.1756	0.1756	100.0	Pass
19	0.2527	0.2527	100.0	Pass
20	0.2069	0.2069	100.0	Pass
21	0.3389	0.3389	100.0	Pass
22	0.3822	0.3822	100.0	Pass
23	0.3252	0.3252	100.0	Pass
24	0.2163	0.2163	100.0	Pass
25	0.3151	0.3151	100.0	Pass
26	0.2368	0.2368	100.0	Pass
27	0.2229	0.2229	100.0	Pass
28	0.2498	0.2498	100.0	Pass
29	0.2286	0.2286	100.0	Pass
30	0.1746	0.1746	100.0	Pass
31	0.1405	0.1405	100.0	Pass
Apr1	0.1475	0.1475	100.0	Pass
2	0.1640	0.1640	100.0	Pass
3	0.2203	0.2203	100.0	Pass
4	0.2040	0.2040	100.0	Pass
5	0.2218	0.2218	100.0	Pass
6	0.1239	0.1239	100.0	Pass
7	0.1936	0.1936	100.0	Pass
8	0.1979	0.1979	100.0	Pass
9	0.1748	0.1748	100.0	Pass
10	0.1752	0.1752	100.0	Pass
11	0.2329	0.2329	100.0	Pass
12	0.2047	0.2047	100.0	Pass
13	0.2119	0.2119	100.0	Pass
14	0.1833	0.1833	100.0	Pass
15	0.1959	0.1959	100.0	Pass
16	0.1131	0.1131	100.0	Pass
17	0.1480	0.1480	100.0	Pass
18	0.1690	0.1690	100.0	Pass
19	0.0964	0.0964	100.0	Pass
20	0.0905	0.0905	100.0	Pass
21	0.1474	0.1474	100.0	Pass
22	0.1244	0.1244	100.0	Pass
23	0.1103	0.1103	100.0	Pass
24	0.0894	0.0894	100.0	Pass
25	0.1052	0.1052	100.0	Pass
26	0.1760	0.1760	100.0	Pass
27	0.1388	0.1388	100.0	Pass
28	0.1449	0.1449	100.0	Pass
29	0.0735	0.0735	100.0	Pass

30	0.0924	0.0924	100.0	Pass
May1	0.1404	0.1404	100.0	Pass
2	0.1051	0.1051	100.0	Pass
3	0.1106	0.1106	100.0	Pass
4	0.0889	0.0889	100.0	Pass
5	0.0848	0.0848	100.0	Pass
6	0.0714	0.0714	100.0	Pass
7	0.0935	0.0935	100.0	Pass
8	0.0588	0.0588	100.0	Pass
9	0.0799	0.0799	100.0	Pass
10	0.0644	0.0644	100.0	Pass
11	0.0603	0.0603	100.0	Pass
12	0.0857	0.0857	100.0	Pass
13	0.0921	0.0921	100.0	Pass
14	0.0901	0.0901	100.0	Pass
15	0.0622	0.0622	100.0	Pass
16	0.0782	0.0782	100.0	Pass
17	0.0649	0.0649	100.0	Pass
18	0.1025	0.1025	100.0	Pass
19	0.0559	0.0559	100.0	Pass
20	0.0533	0.0533	100.0	Pass
21	0.0545	0.0545	100.0	Pass
22	0.0660	0.0660	100.0	Pass
23	0.0588	0.0588	100.0	Pass
24	0.0618	0.0618	100.0	Pass
25	0.0521	0.0521	100.0	Pass
26	0.0888	0.0888	100.0	Pass
27	0.0707	0.0707	100.0	Pass
28	0.0759	0.0759	100.0	Pass
29	0.1036	0.1036	100.0	Pass
30	0.0682	0.0682	100.0	Pass
31	0.0742	0.0742	100.0	Pass
Jun1	0.0567	0.0567	100.0	Pass
2	0.0895	0.0895	100.0	Pass
3	0.0850	0.0850	100.0	Pass
4	0.0619	0.0619	100.0	Pass
5	0.1019	0.1019	100.0	Pass
6	0.0406	0.0406	100.0	Pass
7	0.0603	0.0603	100.0	Pass
8	0.0839	0.0839	100.0	Pass
9	0.0636	0.0636	100.0	Pass
10	0.0597	0.0597	100.0	Pass
11	0.0438	0.0438	100.0	Pass
12	0.0523	0.0523	100.0	Pass
13	0.0834	0.0834	100.0	Pass
14	0.0357	0.0357	100.0	Pass
15	0.0688	0.0688	100.0	Pass
16	0.0315	0.0315	100.0	Pass
17	0.0431	0.0431	100.0	Pass
18	0.0301	0.0301	100.0	Pass
19	0.0344	0.0344	100.0	Pass
20	0.0371	0.0371	100.0	Pass
21	0.0376	0.0376	100.0	Pass
22	0.0210	0.0210	100.0	Pass
23	0.1029	0.1029	100.0	Pass
24	0.0299	0.0299	100.0	Pass
25	0.0466	0.0466	100.0	Pass

26	0.0280	0.0280	100.0	Pass
27	0.0248	0.0248	100.0	Pass
28	0.0254	0.0254	100.0	Pass
29	0.0333	0.0333	100.0	Pass
30	0.0729	0.0729	100.0	Pass
Jul1	0.0192	0.0192	100.0	Pass
2	0.0159	0.0159	100.0	Pass
3	0.0170	0.0170	100.0	Pass
4	0.0405	0.0405	100.0	Pass
5	0.0305	0.0305	100.0	Pass
6	0.0232	0.0232	100.0	Pass
7	0.0454	0.0454	100.0	Pass
8	0.0265	0.0265	100.0	Pass
9	0.0537	0.0537	100.0	Pass
10	0.0356	0.0356	100.0	Pass
11	0.0732	0.0732	100.0	Pass
12	0.0396	0.0396	100.0	Pass
13	0.0287	0.0287	100.0	Pass
14	0.0423	0.0423	100.0	Pass
15	0.0174	0.0174	100.0	Pass
16	0.0109	0.0109	100.0	Pass
17	0.0358	0.0358	100.0	Pass
18	0.0128	0.0128	100.0	Pass
19	0.0151	0.0151	100.0	Pass
20	0.0258	0.0258	100.0	Pass
21	0.0210	0.0210	100.0	Pass
22	0.0024	0.0024	100.0	Pass
23	0.0060	0.0060	100.0	Pass
24	0.0067	0.0067	100.0	Pass
25	0.0147	0.0147	100.0	Pass
26	0.0061	0.0061	100.0	Pass
27	0.0092	0.0092	100.0	Pass
28	0.0076	0.0076	100.0	Pass
29	0.0050	0.0050	100.0	Pass
30	0.0085	0.0085	100.0	Pass
31	0.0099	0.0099	100.0	Pass
Aug1	0.0405	0.0405	100.0	Pass
2	0.0146	0.0146	100.0	Pass
3	0.0058	0.0058	100.0	Pass
4	0.0056	0.0056	100.0	Pass
5	0.0464	0.0464	100.0	Pass
6	0.0316	0.0316	100.0	Pass
7	0.0117	0.0117	100.0	Pass
8	0.0116	0.0116	100.0	Pass
9	0.0010	0.0010	100.0	Pass
10	0.0060	0.0060	100.0	Pass
11	0.0295	0.0295	100.0	Pass
12	0.0253	0.0253	100.0	Pass
13	0.0320	0.0320	100.0	Pass
14	0.0201	0.0201	100.0	Pass
15	0.0184	0.0184	100.0	Pass
16	0.0154	0.0154	100.0	Pass
17	0.0293	0.0293	100.0	Pass
18	0.0565	0.0565	100.0	Pass
19	0.0166	0.0166	100.0	Pass
20	0.0441	0.0441	100.0	Pass
21	0.0413	0.0413	100.0	Pass

22	0.0799	0.0799	100.0	Pass
23	0.0763	0.0763	100.0	Pass
24	0.0684	0.0684	100.0	Pass
25	0.0289	0.0289	100.0	Pass
26	0.0777	0.0777	100.0	Pass
27	0.0802	0.0802	100.0	Pass
28	0.0814	0.0814	100.0	Pass
29	0.0516	0.0516	100.0	Pass
30	0.0807	0.0807	100.0	Pass
31	0.1291	0.1291	100.0	Pass
Sep1	0.0539	0.0539	100.0	Pass
2	0.0533	0.0533	100.0	Pass
3	0.0564	0.0564	100.0	Pass
4	0.0696	0.0696	100.0	Pass
5	0.0600	0.0600	100.0	Pass
6	0.0416	0.0416	100.0	Pass
7	0.0783	0.0783	100.0	Pass
8	0.0513	0.0513	100.0	Pass
9	0.1270	0.1270	100.0	Pass
10	0.0322	0.0322	100.0	Pass
11	0.0263	0.0263	100.0	Pass
12	0.0671	0.0671	100.0	Pass
13	0.1267	0.1267	100.0	Pass
14	0.0831	0.0831	100.0	Pass
15	0.1238	0.1238	100.0	Pass
16	0.1344	0.1344	100.0	Pass
17	0.1446	0.1446	100.0	Pass
18	0.1306	0.1306	100.0	Pass
19	0.1411	0.1411	100.0	Pass
20	0.1059	0.1059	100.0	Pass
21	0.1445	0.1445	100.0	Pass
22	0.1167	0.1167	100.0	Pass
23	0.0918	0.0918	100.0	Pass
24	0.0659	0.0659	100.0	Pass
25	0.0681	0.0681	100.0	Pass
26	0.0688	0.0688	100.0	Pass
27	0.0944	0.0944	100.0	Pass
28	0.0815	0.0815	100.0	Pass
29	0.1067	0.1067	100.0	Pass
30	0.0793	0.0793	100.0	Pass
Oct1	0.0565	0.0565	100.0	Pass
2	0.1355	0.1355	100.0	Pass
3	0.1225	0.1225	100.0	Pass
4	0.1511	0.1511	100.0	Pass
5	0.1611	0.1611	100.0	Pass
6	0.1776	0.1776	100.0	Pass
7	0.2282	0.2282	100.0	Pass
8	0.1890	0.1890	100.0	Pass
9	0.1482	0.1482	100.0	Pass
10	0.1215	0.1215	100.0	Pass
11	0.2217	0.2217	100.0	Pass
12	0.1533	0.1533	100.0	Pass
13	0.2089	0.2089	100.0	Pass
14	0.1252	0.1252	100.0	Pass
15	0.1442	0.1442	100.0	Pass
16	0.1934	0.1934	100.0	Pass
17	0.1778	0.1778	100.0	Pass

18	0.2823	0.2823	100.0	Pass
19	0.3500	0.3500	100.0	Pass
20	0.3039	0.3039	100.0	Pass
21	0.3662	0.3662	100.0	Pass
22	0.2252	0.2252	100.0	Pass
23	0.3568	0.3568	100.0	Pass
24	0.3164	0.3164	100.0	Pass
25	0.2849	0.2849	100.0	Pass
26	0.3410	0.3410	100.0	Pass
27	0.2947	0.2947	100.0	Pass
28	0.2738	0.2738	100.0	Pass
29	0.2337	0.2337	100.0	Pass
30	0.3350	0.3350	100.0	Pass
31	0.2890	0.2890	100.0	Pass
Nov1	0.3612	0.3612	100.0	Pass
2	0.4306	0.4306	100.0	Pass
3	0.3463	0.3463	100.0	Pass
4	0.3463	0.3463	100.0	Pass
5	0.3823	0.3823	100.0	Pass
6	0.3247	0.3247	100.0	Pass
7	0.2939	0.2939	100.0	Pass
8	0.3704	0.3704	100.0	Pass
9	0.4385	0.4385	100.0	Pass
10	0.3808	0.3808	100.0	Pass
11	0.4231	0.4231	100.0	Pass
12	0.3917	0.3917	100.0	Pass
13	0.3022	0.3022	100.0	Pass
14	0.3444	0.3444	100.0	Pass
15	0.3856	0.3856	100.0	Pass
16	0.4023	0.4023	100.0	Pass
17	0.3713	0.3713	100.0	Pass
18	0.5374	0.5374	100.0	Pass
19	0.4882	0.4882	100.0	Pass
20	0.3326	0.3326	100.0	Pass
21	0.5037	0.5037	100.0	Pass
22	0.5899	0.5899	100.0	Pass
23	0.4634	0.4634	100.0	Pass
24	0.5237	0.5237	100.0	Pass
25	0.3573	0.3573	100.0	Pass
26	0.2902	0.2902	100.0	Pass
27	0.3409	0.3409	100.0	Pass
28	0.3259	0.3259	100.0	Pass
29	0.5298	0.5298	100.0	Pass
30	0.4346	0.4346	100.0	Pass
Dec1	0.4754	0.4754	100.0	Pass
2	0.4645	0.4645	100.0	Pass
3	0.3060	0.3060	100.0	Pass
4	0.3308	0.3308	100.0	Pass
5	0.2875	0.2875	100.0	Pass
6	0.2474	0.2474	100.0	Pass
7	0.3475	0.3475	100.0	Pass
8	0.4360	0.4360	100.0	Pass
9	0.4383	0.4383	100.0	Pass
10	0.4745	0.4745	100.0	Pass
11	0.3518	0.3518	100.0	Pass
12	0.3763	0.3763	100.0	Pass
13	0.5479	0.5479	100.0	Pass

14	0.3953	0.3953	100.0	Pass
15	0.5023	0.5023	100.0	Pass
16	0.3508	0.3508	100.0	Pass
17	0.4077	0.4077	100.0	Pass
18	0.3390	0.3390	100.0	Pass
19	0.3901	0.3901	100.0	Pass
20	0.3866	0.3866	100.0	Pass
21	0.4256	0.4256	100.0	Pass
22	0.4178	0.4178	100.0	Pass
23	0.4523	0.4523	100.0	Pass
24	0.4979	0.4979	100.0	Pass
25	0.4410	0.4410	100.0	Pass
26	0.4032	0.4032	100.0	Pass
27	0.2753	0.2753	100.0	Pass
28	0.4178	0.4178	100.0	Pass
29	0.2863	0.2863	100.0	Pass
30	0.2927	0.2927	100.0	Pass
31	0.4823	0.4823	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #6

Total Pervious Area:0.109
Total Impervious Area:0.232

Mitigated Landuse Totals for POC #6

Total Pervious Area:0.109
Total Impervious Area:0.232

Flow Frequency Return Periods for Predeveloped. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.188353
5 year	0.22819
10 year	0.250053
25 year	0.273914
50 year	0.289528
100 year	0.303649

Flow Frequency Return Periods for Mitigated. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.188353
5 year	0.22819
10 year	0.250053
25 year	0.273914
50 year	0.289528
100 year	0.303649

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #6

Year	Predeveloped	Mitigated
1956	0.208	0.208
1957	0.247	0.247
1958	0.185	0.185
1959	0.198	0.198
1960	0.207	0.207
1961	0.151	0.151
1962	0.272	0.272
1963	0.246	0.246
1964	0.206	0.206
1965	0.209	0.209
1966	0.210	0.210
1967	0.126	0.126
1968	0.197	0.197
1969	0.192	0.192
1970	0.168	0.168
1971	0.277	0.277
1972	0.237	0.237
1973	0.209	0.209
1974	0.211	0.211
1975	0.182	0.182
1976	0.224	0.224
1977	0.158	0.158
1978	0.276	0.276
1979	0.176	0.176
1980	0.159	0.159
1981	0.202	0.202
1982	0.233	0.233
1983	0.184	0.184
1984	0.176	0.176
1985	0.122	0.122
1986	0.210	0.210
1987	0.145	0.145
1988	0.224	0.224
1989	0.183	0.183
1990	0.249	0.249
1991	0.150	0.150
1992	0.117	0.117
1993	0.130	0.130
1994	0.177	0.177
1995	0.156	0.156
1996	0.193	0.193
1997	0.202	0.202
1998	0.123	0.123
1999	0.160	0.160
2000	0.146	0.146
2001	0.135	0.135
2002	0.197	0.197
2003	0.268	0.268
2004	0.245	0.245
2005	0.190	0.190
2006	0.195	0.195
2007	0.233	0.233
2008	0.113	0.113
2009	0.105	0.105

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	0.2769	0.2769
2	0.2762	0.2762
3	0.2724	0.2724
4	0.2680	0.2680
5	0.2489	0.2489
6	0.2473	0.2473
7	0.2460	0.2460
8	0.2446	0.2446
9	0.2373	0.2373
10	0.2327	0.2327
11	0.2326	0.2326
12	0.2243	0.2243
13	0.2242	0.2242
14	0.2105	0.2105
15	0.2101	0.2101
16	0.2097	0.2097
17	0.2091	0.2091
18	0.2091	0.2091
19	0.2081	0.2081
20	0.2069	0.2069
21	0.2060	0.2060
22	0.2021	0.2021
23	0.2019	0.2019
24	0.1976	0.1976
25	0.1973	0.1973
26	0.1965	0.1965
27	0.1952	0.1952
28	0.1931	0.1931
29	0.1920	0.1920
30	0.1895	0.1895
31	0.1848	0.1848
32	0.1842	0.1842
33	0.1830	0.1830
34	0.1816	0.1816
35	0.1768	0.1768
36	0.1761	0.1761
37	0.1756	0.1756
38	0.1681	0.1681
39	0.1598	0.1598
40	0.1588	0.1588
41	0.1577	0.1577
42	0.1558	0.1558
43	0.1509	0.1509
44	0.1499	0.1499
45	0.1464	0.1464
46	0.1452	0.1452
47	0.1351	0.1351
48	0.1295	0.1295
49	0.1255	0.1255
50	0.1235	0.1235
51	0.1217	0.1217
52	0.1173	0.1173
53	0.1127	0.1127
54	0.1051	0.1051

Stream Protection Duration

POC #6

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0942	933	933	100	Pass
0.0961	863	863	100	Pass
0.0981	791	791	100	Pass
0.1001	755	755	100	Pass
0.1021	696	696	100	Pass
0.1040	641	641	100	Pass
0.1060	590	590	100	Pass
0.1080	567	567	100	Pass
0.1100	524	524	100	Pass
0.1119	480	480	100	Pass
0.1139	451	451	100	Pass
0.1159	419	419	100	Pass
0.1179	393	393	100	Pass
0.1198	372	372	100	Pass
0.1218	345	345	100	Pass
0.1238	326	326	100	Pass
0.1257	300	300	100	Pass
0.1277	277	277	100	Pass
0.1297	260	260	100	Pass
0.1317	242	242	100	Pass
0.1336	224	224	100	Pass
0.1356	214	214	100	Pass
0.1376	209	209	100	Pass
0.1396	194	194	100	Pass
0.1415	185	185	100	Pass
0.1435	176	176	100	Pass
0.1455	166	166	100	Pass
0.1475	152	152	100	Pass
0.1494	147	147	100	Pass
0.1514	139	139	100	Pass
0.1534	135	135	100	Pass
0.1553	129	129	100	Pass
0.1573	123	123	100	Pass
0.1593	111	111	100	Pass
0.1613	106	106	100	Pass
0.1632	98	98	100	Pass
0.1652	95	95	100	Pass
0.1672	93	93	100	Pass
0.1692	89	89	100	Pass
0.1711	86	86	100	Pass
0.1731	80	80	100	Pass
0.1751	80	80	100	Pass
0.1771	72	72	100	Pass
0.1790	70	70	100	Pass
0.1810	67	67	100	Pass
0.1830	64	64	100	Pass
0.1849	57	57	100	Pass
0.1869	51	51	100	Pass

0.1889	51	51	100	Pass
0.1909	50	50	100	Pass
0.1928	48	48	100	Pass
0.1948	46	46	100	Pass
0.1968	43	43	100	Pass
0.1988	41	41	100	Pass
0.2007	40	40	100	Pass
0.2027	35	35	100	Pass
0.2047	35	35	100	Pass
0.2067	34	34	100	Pass
0.2086	31	31	100	Pass
0.2106	26	26	100	Pass
0.2126	24	24	100	Pass
0.2145	24	24	100	Pass
0.2165	24	24	100	Pass
0.2185	23	23	100	Pass
0.2205	21	21	100	Pass
0.2224	20	20	100	Pass
0.2244	17	17	100	Pass
0.2264	16	16	100	Pass
0.2284	15	15	100	Pass
0.2303	15	15	100	Pass
0.2323	14	14	100	Pass
0.2343	12	12	100	Pass
0.2363	11	11	100	Pass
0.2382	10	10	100	Pass
0.2402	10	10	100	Pass
0.2422	10	10	100	Pass
0.2441	10	10	100	Pass
0.2461	8	8	100	Pass
0.2481	7	7	100	Pass
0.2501	6	6	100	Pass
0.2520	6	6	100	Pass
0.2540	6	6	100	Pass
0.2560	5	5	100	Pass
0.2580	5	5	100	Pass
0.2599	5	5	100	Pass
0.2619	4	4	100	Pass
0.2639	4	4	100	Pass
0.2658	4	4	100	Pass
0.2678	4	4	100	Pass
0.2698	3	3	100	Pass
0.2718	3	3	100	Pass
0.2737	2	2	100	Pass
0.2757	2	2	100	Pass
0.2777	0	0	100	Pass
0.2797	0	0	0	Pass
0.2816	0	0	0	Pass
0.2836	0	0	0	Pass
0.2856	0	0	0	Pass
0.2876	0	0	0	Pass
0.2895	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #6
On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 6

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	12.6442	12.6442	100.0	Pass
Feb	9.7049	9.7049	100.0	Pass
Mar	8.5748	8.5748	100.0	Pass
Apr	4.7185	4.7185	100.0	Pass
May	2.4355	2.4355	100.0	Pass
Jun	1.5865	1.5865	100.0	Pass
Jul	0.7692	0.7692	100.0	Pass
Aug	1.1383	1.1383	100.0	Pass
Sep	2.6743	2.6743	100.0	Pass
Oct	6.7579	6.7579	100.0	Pass
Nov	11.8671	11.8671	100.0	Pass
Dec	12.1996	12.1996	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4043	0.4043	100.0	Pass
2	0.3235	0.3235	100.0	Pass
3	0.4032	0.4032	100.0	Pass
4	0.4679	0.4679	100.0	Pass
5	0.3521	0.3521	100.0	Pass
6	0.5101	0.5101	100.0	Pass
7	0.4083	0.4083	100.0	Pass
8	0.4070	0.4070	100.0	Pass
9	0.4291	0.4291	100.0	Pass
10	0.4217	0.4217	100.0	Pass
11	0.5101	0.5101	100.0	Pass
12	0.4101	0.4101	100.0	Pass
13	0.5054	0.5054	100.0	Pass
14	0.5076	0.5076	100.0	Pass
15	0.4665	0.4665	100.0	Pass
16	0.3904	0.3904	100.0	Pass
17	0.3717	0.3717	100.0	Pass
18	0.3284	0.3284	100.0	Pass
19	0.3237	0.3237	100.0	Pass
20	0.2200	0.2200	100.0	Pass
21	0.3894	0.3894	100.0	Pass
22	0.4809	0.4809	100.0	Pass
23	0.5429	0.5429	100.0	Pass
24	0.3843	0.3843	100.0	Pass
25	0.3262	0.3262	100.0	Pass
26	0.2943	0.2943	100.0	Pass
27	0.3593	0.3593	100.0	Pass
28	0.4539	0.4539	100.0	Pass
29	0.3571	0.3571	100.0	Pass
30	0.4134	0.4134	100.0	Pass
31	0.2606	0.2606	100.0	Pass
Feb1	0.2882	0.2882	100.0	Pass
2	0.2613	0.2613	100.0	Pass
3	0.2379	0.2379	100.0	Pass

4	0.2204	0.2204	100.0	Pass
5	0.3897	0.3897	100.0	Pass
6	0.2129	0.2129	100.0	Pass
7	0.2921	0.2921	100.0	Pass
8	0.2274	0.2274	100.0	Pass
9	0.2660	0.2660	100.0	Pass
10	0.3506	0.3506	100.0	Pass
11	0.4652	0.4652	100.0	Pass
12	0.3753	0.3753	100.0	Pass
13	0.3965	0.3965	100.0	Pass
14	0.5444	0.5444	100.0	Pass
15	0.4143	0.4143	100.0	Pass
16	0.5265	0.5265	100.0	Pass
17	0.4713	0.4713	100.0	Pass
18	0.3817	0.3817	100.0	Pass
19	0.3304	0.3304	100.0	Pass
20	0.3160	0.3160	100.0	Pass
21	0.2591	0.2591	100.0	Pass
22	0.3677	0.3677	100.0	Pass
23	0.3530	0.3530	100.0	Pass
24	0.3879	0.3879	100.0	Pass
25	0.3509	0.3509	100.0	Pass
26	0.3471	0.3471	100.0	Pass
27	0.3056	0.3056	100.0	Pass
28	0.3814	0.3814	100.0	Pass
29	0.2919	0.2919	100.0	Pass
Mar1	0.2858	0.2858	100.0	Pass
2	0.2367	0.2367	100.0	Pass
3	0.3242	0.3242	100.0	Pass
4	0.3413	0.3413	100.0	Pass
5	0.2725	0.2725	100.0	Pass
6	0.3415	0.3415	100.0	Pass
7	0.3324	0.3324	100.0	Pass
8	0.3258	0.3258	100.0	Pass
9	0.3267	0.3267	100.0	Pass
10	0.2879	0.2879	100.0	Pass
11	0.3095	0.3095	100.0	Pass
12	0.2748	0.2748	100.0	Pass
13	0.3296	0.3296	100.0	Pass
14	0.2662	0.2662	100.0	Pass
15	0.2177	0.2177	100.0	Pass
16	0.2073	0.2073	100.0	Pass
17	0.2779	0.2779	100.0	Pass
18	0.1756	0.1756	100.0	Pass
19	0.2527	0.2527	100.0	Pass
20	0.2069	0.2069	100.0	Pass
21	0.3389	0.3389	100.0	Pass
22	0.3822	0.3822	100.0	Pass
23	0.3252	0.3252	100.0	Pass
24	0.2163	0.2163	100.0	Pass
25	0.3151	0.3151	100.0	Pass
26	0.2368	0.2368	100.0	Pass
27	0.2229	0.2229	100.0	Pass
28	0.2498	0.2498	100.0	Pass
29	0.2286	0.2286	100.0	Pass
30	0.1746	0.1746	100.0	Pass
31	0.1405	0.1405	100.0	Pass

Apr1	0.1475	0.1475	100.0	Pass
2	0.1640	0.1640	100.0	Pass
3	0.2203	0.2203	100.0	Pass
4	0.2040	0.2040	100.0	Pass
5	0.2218	0.2218	100.0	Pass
6	0.1239	0.1239	100.0	Pass
7	0.1936	0.1936	100.0	Pass
8	0.1979	0.1979	100.0	Pass
9	0.1748	0.1748	100.0	Pass
10	0.1752	0.1752	100.0	Pass
11	0.2329	0.2329	100.0	Pass
12	0.2047	0.2047	100.0	Pass
13	0.2119	0.2119	100.0	Pass
14	0.1833	0.1833	100.0	Pass
15	0.1959	0.1959	100.0	Pass
16	0.1131	0.1131	100.0	Pass
17	0.1480	0.1480	100.0	Pass
18	0.1690	0.1690	100.0	Pass
19	0.0964	0.0964	100.0	Pass
20	0.0905	0.0905	100.0	Pass
21	0.1474	0.1474	100.0	Pass
22	0.1244	0.1244	100.0	Pass
23	0.1103	0.1103	100.0	Pass
24	0.0894	0.0894	100.0	Pass
25	0.1052	0.1052	100.0	Pass
26	0.1760	0.1760	100.0	Pass
27	0.1388	0.1388	100.0	Pass
28	0.1449	0.1449	100.0	Pass
29	0.0735	0.0735	100.0	Pass
30	0.0924	0.0924	100.0	Pass
May1	0.1404	0.1404	100.0	Pass
2	0.1051	0.1051	100.0	Pass
3	0.1106	0.1106	100.0	Pass
4	0.0889	0.0889	100.0	Pass
5	0.0848	0.0848	100.0	Pass
6	0.0714	0.0714	100.0	Pass
7	0.0935	0.0935	100.0	Pass
8	0.0588	0.0588	100.0	Pass
9	0.0799	0.0799	100.0	Pass
10	0.0644	0.0644	100.0	Pass
11	0.0603	0.0603	100.0	Pass
12	0.0857	0.0857	100.0	Pass
13	0.0921	0.0921	100.0	Pass
14	0.0901	0.0901	100.0	Pass
15	0.0622	0.0622	100.0	Pass
16	0.0782	0.0782	100.0	Pass
17	0.0649	0.0649	100.0	Pass
18	0.1025	0.1025	100.0	Pass
19	0.0559	0.0559	100.0	Pass
20	0.0533	0.0533	100.0	Pass
21	0.0545	0.0545	100.0	Pass
22	0.0660	0.0660	100.0	Pass
23	0.0588	0.0588	100.0	Pass
24	0.0618	0.0618	100.0	Pass
25	0.0521	0.0521	100.0	Pass
26	0.0888	0.0888	100.0	Pass
27	0.0707	0.0707	100.0	Pass

28	0.0759	0.0759	100.0	Pass
29	0.1036	0.1036	100.0	Pass
30	0.0682	0.0682	100.0	Pass
31	0.0742	0.0742	100.0	Pass
Jun1	0.0567	0.0567	100.0	Pass
2	0.0895	0.0895	100.0	Pass
3	0.0850	0.0850	100.0	Pass
4	0.0619	0.0619	100.0	Pass
5	0.1019	0.1019	100.0	Pass
6	0.0406	0.0406	100.0	Pass
7	0.0603	0.0603	100.0	Pass
8	0.0839	0.0839	100.0	Pass
9	0.0636	0.0636	100.0	Pass
10	0.0597	0.0597	100.0	Pass
11	0.0438	0.0438	100.0	Pass
12	0.0523	0.0523	100.0	Pass
13	0.0834	0.0834	100.0	Pass
14	0.0357	0.0357	100.0	Pass
15	0.0688	0.0688	100.0	Pass
16	0.0315	0.0315	100.0	Pass
17	0.0431	0.0431	100.0	Pass
18	0.0301	0.0301	100.0	Pass
19	0.0344	0.0344	100.0	Pass
20	0.0371	0.0371	100.0	Pass
21	0.0376	0.0376	100.0	Pass
22	0.0210	0.0210	100.0	Pass
23	0.1029	0.1029	100.0	Pass
24	0.0299	0.0299	100.0	Pass
25	0.0466	0.0466	100.0	Pass
26	0.0280	0.0280	100.0	Pass
27	0.0248	0.0248	100.0	Pass
28	0.0254	0.0254	100.0	Pass
29	0.0333	0.0333	100.0	Pass
30	0.0729	0.0729	100.0	Pass
Jul1	0.0192	0.0192	100.0	Pass
2	0.0159	0.0159	100.0	Pass
3	0.0170	0.0170	100.0	Pass
4	0.0405	0.0405	100.0	Pass
5	0.0305	0.0305	100.0	Pass
6	0.0232	0.0232	100.0	Pass
7	0.0454	0.0454	100.0	Pass
8	0.0265	0.0265	100.0	Pass
9	0.0537	0.0537	100.0	Pass
10	0.0356	0.0356	100.0	Pass
11	0.0732	0.0732	100.0	Pass
12	0.0396	0.0396	100.0	Pass
13	0.0287	0.0287	100.0	Pass
14	0.0423	0.0423	100.0	Pass
15	0.0174	0.0174	100.0	Pass
16	0.0109	0.0109	100.0	Pass
17	0.0358	0.0358	100.0	Pass
18	0.0128	0.0128	100.0	Pass
19	0.0151	0.0151	100.0	Pass
20	0.0258	0.0258	100.0	Pass
21	0.0210	0.0210	100.0	Pass
22	0.0024	0.0024	100.0	Pass
23	0.0060	0.0060	100.0	Pass

24	0.0067	0.0067	100.0	Pass
25	0.0147	0.0147	100.0	Pass
26	0.0061	0.0061	100.0	Pass
27	0.0092	0.0092	100.0	Pass
28	0.0076	0.0076	100.0	Pass
29	0.0050	0.0050	100.0	Pass
30	0.0085	0.0085	100.0	Pass
31	0.0099	0.0099	100.0	Pass
Aug1	0.0405	0.0405	100.0	Pass
2	0.0146	0.0146	100.0	Pass
3	0.0058	0.0058	100.0	Pass
4	0.0056	0.0056	100.0	Pass
5	0.0464	0.0464	100.0	Pass
6	0.0316	0.0316	100.0	Pass
7	0.0117	0.0117	100.0	Pass
8	0.0116	0.0116	100.0	Pass
9	0.0010	0.0010	100.0	Pass
10	0.0060	0.0060	100.0	Pass
11	0.0295	0.0295	100.0	Pass
12	0.0253	0.0253	100.0	Pass
13	0.0320	0.0320	100.0	Pass
14	0.0201	0.0201	100.0	Pass
15	0.0184	0.0184	100.0	Pass
16	0.0154	0.0154	100.0	Pass
17	0.0293	0.0293	100.0	Pass
18	0.0565	0.0565	100.0	Pass
19	0.0166	0.0166	100.0	Pass
20	0.0441	0.0441	100.0	Pass
21	0.0413	0.0413	100.0	Pass
22	0.0799	0.0799	100.0	Pass
23	0.0763	0.0763	100.0	Pass
24	0.0684	0.0684	100.0	Pass
25	0.0289	0.0289	100.0	Pass
26	0.0777	0.0777	100.0	Pass
27	0.0802	0.0802	100.0	Pass
28	0.0814	0.0814	100.0	Pass
29	0.0516	0.0516	100.0	Pass
30	0.0807	0.0807	100.0	Pass
31	0.1291	0.1291	100.0	Pass
Sep1	0.0539	0.0539	100.0	Pass
2	0.0533	0.0533	100.0	Pass
3	0.0564	0.0564	100.0	Pass
4	0.0696	0.0696	100.0	Pass
5	0.0600	0.0600	100.0	Pass
6	0.0416	0.0416	100.0	Pass
7	0.0783	0.0783	100.0	Pass
8	0.0513	0.0513	100.0	Pass
9	0.1270	0.1270	100.0	Pass
10	0.0322	0.0322	100.0	Pass
11	0.0263	0.0263	100.0	Pass
12	0.0671	0.0671	100.0	Pass
13	0.1267	0.1267	100.0	Pass
14	0.0831	0.0831	100.0	Pass
15	0.1238	0.1238	100.0	Pass
16	0.1344	0.1344	100.0	Pass
17	0.1446	0.1446	100.0	Pass
18	0.1306	0.1306	100.0	Pass

19	0.1411	0.1411	100.0	Pass
20	0.1059	0.1059	100.0	Pass
21	0.1445	0.1445	100.0	Pass
22	0.1167	0.1167	100.0	Pass
23	0.0918	0.0918	100.0	Pass
24	0.0659	0.0659	100.0	Pass
25	0.0681	0.0681	100.0	Pass
26	0.0688	0.0688	100.0	Pass
27	0.0944	0.0944	100.0	Pass
28	0.0815	0.0815	100.0	Pass
29	0.1067	0.1067	100.0	Pass
30	0.0793	0.0793	100.0	Pass
Oct1	0.0565	0.0565	100.0	Pass
2	0.1355	0.1355	100.0	Pass
3	0.1225	0.1225	100.0	Pass
4	0.1511	0.1511	100.0	Pass
5	0.1611	0.1611	100.0	Pass
6	0.1776	0.1776	100.0	Pass
7	0.2282	0.2282	100.0	Pass
8	0.1890	0.1890	100.0	Pass
9	0.1482	0.1482	100.0	Pass
10	0.1215	0.1215	100.0	Pass
11	0.2217	0.2217	100.0	Pass
12	0.1533	0.1533	100.0	Pass
13	0.2089	0.2089	100.0	Pass
14	0.1252	0.1252	100.0	Pass
15	0.1442	0.1442	100.0	Pass
16	0.1934	0.1934	100.0	Pass
17	0.1778	0.1778	100.0	Pass
18	0.2823	0.2823	100.0	Pass
19	0.3500	0.3500	100.0	Pass
20	0.3039	0.3039	100.0	Pass
21	0.3662	0.3662	100.0	Pass
22	0.2252	0.2252	100.0	Pass
23	0.3568	0.3568	100.0	Pass
24	0.3164	0.3164	100.0	Pass
25	0.2849	0.2849	100.0	Pass
26	0.3410	0.3410	100.0	Pass
27	0.2947	0.2947	100.0	Pass
28	0.2738	0.2738	100.0	Pass
29	0.2337	0.2337	100.0	Pass
30	0.3350	0.3350	100.0	Pass
31	0.2890	0.2890	100.0	Pass
Nov1	0.3612	0.3612	100.0	Pass
2	0.4306	0.4306	100.0	Pass
3	0.3463	0.3463	100.0	Pass
4	0.3463	0.3463	100.0	Pass
5	0.3823	0.3823	100.0	Pass
6	0.3247	0.3247	100.0	Pass
7	0.2939	0.2939	100.0	Pass
8	0.3704	0.3704	100.0	Pass
9	0.4385	0.4385	100.0	Pass
10	0.3808	0.3808	100.0	Pass
11	0.4231	0.4231	100.0	Pass
12	0.3917	0.3917	100.0	Pass
13	0.3022	0.3022	100.0	Pass
14	0.3444	0.3444	100.0	Pass

15	0.3856	0.3856	100.0	Pass
16	0.4023	0.4023	100.0	Pass
17	0.3713	0.3713	100.0	Pass
18	0.5374	0.5374	100.0	Pass
19	0.4882	0.4882	100.0	Pass
20	0.3326	0.3326	100.0	Pass
21	0.5037	0.5037	100.0	Pass
22	0.5899	0.5899	100.0	Pass
23	0.4634	0.4634	100.0	Pass
24	0.5237	0.5237	100.0	Pass
25	0.3573	0.3573	100.0	Pass
26	0.2902	0.2902	100.0	Pass
27	0.3409	0.3409	100.0	Pass
28	0.3259	0.3259	100.0	Pass
29	0.5298	0.5298	100.0	Pass
30	0.4346	0.4346	100.0	Pass
Dec1	0.4754	0.4754	100.0	Pass
2	0.4645	0.4645	100.0	Pass
3	0.3060	0.3060	100.0	Pass
4	0.3308	0.3308	100.0	Pass
5	0.2875	0.2875	100.0	Pass
6	0.2474	0.2474	100.0	Pass
7	0.3475	0.3475	100.0	Pass
8	0.4360	0.4360	100.0	Pass
9	0.4383	0.4383	100.0	Pass
10	0.4745	0.4745	100.0	Pass
11	0.3518	0.3518	100.0	Pass
12	0.3763	0.3763	100.0	Pass
13	0.5479	0.5479	100.0	Pass
14	0.3953	0.3953	100.0	Pass
15	0.5023	0.5023	100.0	Pass
16	0.3508	0.3508	100.0	Pass
17	0.4077	0.4077	100.0	Pass
18	0.3390	0.3390	100.0	Pass
19	0.3901	0.3901	100.0	Pass
20	0.3866	0.3866	100.0	Pass
21	0.4256	0.4256	100.0	Pass
22	0.4178	0.4178	100.0	Pass
23	0.4523	0.4523	100.0	Pass
24	0.4979	0.4979	100.0	Pass
25	0.4410	0.4410	100.0	Pass
26	0.4032	0.4032	100.0	Pass
27	0.2753	0.2753	100.0	Pass
28	0.4178	0.4178	100.0	Pass
29	0.2863	0.2863	100.0	Pass
30	0.2927	0.2927	100.0	Pass
31	0.4823	0.4823	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #7
Total Pervious Area:0.057

Total Impervious Area:0.156

Mitigated Landuse Totals for POC #7

Total Pervious Area:0.057

Total Impervious Area:0.156

Flow Frequency Return Periods for Predeveloped. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.121291
5 year	0.146112
10 year	0.159678
25 year	0.174443
50 year	0.184085
100 year	0.192791

Flow Frequency Return Periods for Mitigated. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.121291
5 year	0.146112
10 year	0.159678
25 year	0.174443
50 year	0.184085
100 year	0.192791

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #7

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.132	0.132
1957	0.159	0.159
1958	0.120	0.120
1959	0.126	0.126
1960	0.132	0.132
1961	0.099	0.099
1962	0.173	0.173
1963	0.157	0.157
1964	0.133	0.133
1965	0.134	0.134
1966	0.134	0.134
1967	0.081	0.081
1968	0.126	0.126
1969	0.122	0.122
1970	0.109	0.109
1971	0.176	0.176
1972	0.151	0.151
1973	0.135	0.135
1974	0.134	0.134
1975	0.117	0.117
1976	0.143	0.143
1977	0.102	0.102
1978	0.177	0.177
1979	0.113	0.113
1980	0.102	0.102
1981	0.130	0.130
1982	0.150	0.150

1983	0.119	0.119
1984	0.113	0.113
1985	0.080	0.080
1986	0.135	0.135
1987	0.093	0.093
1988	0.144	0.144
1989	0.118	0.118
1990	0.159	0.159
1991	0.096	0.096
1992	0.077	0.077
1993	0.085	0.085
1994	0.114	0.114
1995	0.103	0.103
1996	0.127	0.127
1997	0.131	0.131
1998	0.080	0.080
1999	0.103	0.103
2000	0.094	0.094
2001	0.088	0.088
2002	0.131	0.131
2003	0.170	0.170
2004	0.156	0.156
2005	0.122	0.122
2006	0.125	0.125
2007	0.148	0.148
2008	0.073	0.073
2009	0.069	0.069

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	0.1774	0.1774
2	0.1764	0.1764
3	0.1732	0.1732
4	0.1703	0.1703
5	0.1588	0.1588
6	0.1586	0.1586
7	0.1569	0.1569
8	0.1562	0.1562
9	0.1506	0.1506
10	0.1500	0.1500
11	0.1484	0.1484
12	0.1437	0.1437
13	0.1434	0.1434
14	0.1347	0.1347
15	0.1345	0.1345
16	0.1339	0.1339
17	0.1339	0.1339
18	0.1335	0.1335
19	0.1328	0.1328
20	0.1323	0.1323
21	0.1317	0.1317
22	0.1314	0.1314
23	0.1306	0.1306
24	0.1301	0.1301
25	0.1273	0.1273

26	0.1263	0.1263
27	0.1261	0.1261
28	0.1249	0.1249
29	0.1222	0.1222
30	0.1217	0.1217
31	0.1196	0.1196
32	0.1186	0.1186
33	0.1179	0.1179
34	0.1165	0.1165
35	0.1138	0.1138
36	0.1128	0.1128
37	0.1126	0.1126
38	0.1093	0.1093
39	0.1032	0.1032
40	0.1031	0.1031
41	0.1024	0.1024
42	0.1017	0.1017
43	0.0988	0.0988
44	0.0961	0.0961
45	0.0943	0.0943
46	0.0934	0.0934
47	0.0884	0.0884
48	0.0847	0.0847
49	0.0815	0.0815
50	0.0804	0.0804
51	0.0801	0.0801
52	0.0765	0.0765
53	0.0735	0.0735
54	0.0689	0.0689

Stream Protection Duration

POC #7

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0606	988	988	100	Pass
0.0619	910	910	100	Pass
0.0631	838	838	100	Pass
0.0644	788	788	100	Pass
0.0656	731	731	100	Pass
0.0669	675	675	100	Pass
0.0681	620	620	100	Pass
0.0694	580	580	100	Pass
0.0706	549	549	100	Pass
0.0719	505	505	100	Pass
0.0731	471	471	100	Pass
0.0744	437	437	100	Pass
0.0756	410	410	100	Pass
0.0769	386	386	100	Pass
0.0781	359	359	100	Pass
0.0793	337	337	100	Pass
0.0806	313	313	100	Pass
0.0818	295	295	100	Pass
0.0831	274	274	100	Pass

0.0843	256	256	100	Pass
0.0856	238	238	100	Pass
0.0868	228	228	100	Pass
0.0881	213	213	100	Pass
0.0893	204	204	100	Pass
0.0906	192	192	100	Pass
0.0918	180	180	100	Pass
0.0931	173	173	100	Pass
0.0943	163	163	100	Pass
0.0956	155	155	100	Pass
0.0968	145	145	100	Pass
0.0981	139	139	100	Pass
0.0993	133	133	100	Pass
0.1005	128	128	100	Pass
0.1018	121	121	100	Pass
0.1030	109	109	100	Pass
0.1043	101	101	100	Pass
0.1055	98	98	100	Pass
0.1068	93	93	100	Pass
0.1080	91	91	100	Pass
0.1093	90	90	100	Pass
0.1105	84	84	100	Pass
0.1118	80	80	100	Pass
0.1130	75	75	100	Pass
0.1143	72	72	100	Pass
0.1155	70	70	100	Pass
0.1168	66	66	100	Pass
0.1180	61	61	100	Pass
0.1192	54	54	100	Pass
0.1205	52	52	100	Pass
0.1217	51	51	100	Pass
0.1230	48	48	100	Pass
0.1242	47	47	100	Pass
0.1255	45	45	100	Pass
0.1267	43	43	100	Pass
0.1280	41	41	100	Pass
0.1292	40	40	100	Pass
0.1305	37	37	100	Pass
0.1317	34	34	100	Pass
0.1330	31	31	100	Pass
0.1342	28	28	100	Pass
0.1355	24	24	100	Pass
0.1367	24	24	100	Pass
0.1380	24	24	100	Pass
0.1392	23	23	100	Pass
0.1404	22	22	100	Pass
0.1417	20	20	100	Pass
0.1429	20	20	100	Pass
0.1442	16	16	100	Pass
0.1454	15	15	100	Pass
0.1467	15	15	100	Pass
0.1479	15	15	100	Pass
0.1492	13	13	100	Pass
0.1504	12	12	100	Pass
0.1517	10	10	100	Pass
0.1529	10	10	100	Pass
0.1542	10	10	100	Pass

0.1554	10	10	100	Pass
0.1567	9	9	100	Pass
0.1579	8	8	100	Pass
0.1591	6	6	100	Pass
0.1604	6	6	100	Pass
0.1616	6	6	100	Pass
0.1629	5	5	100	Pass
0.1641	5	5	100	Pass
0.1654	5	5	100	Pass
0.1666	5	5	100	Pass
0.1679	4	4	100	Pass
0.1691	4	4	100	Pass
0.1704	3	3	100	Pass
0.1716	3	3	100	Pass
0.1729	3	3	100	Pass
0.1741	2	2	100	Pass
0.1754	2	2	100	Pass
0.1766	1	1	100	Pass
0.1779	0	0	100	Pass
0.1791	0	0	0	Pass
0.1803	0	0	0	Pass
0.1816	0	0	0	Pass
0.1828	0	0	0	Pass
0.1841	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #7
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 7

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	7.9953	7.9953	100.0	Pass
Feb	6.1297	6.1297	100.0	Pass
Mar	5.4204	5.4204	100.0	Pass
Apr	2.9956	2.9956	100.0	Pass
May	1.5674	1.5674	100.0	Pass
Jun	1.0279	1.0279	100.0	Pass
Jul	0.5022	0.5022	100.0	Pass
Aug	0.7470	0.7470	100.0	Pass
Sep	1.7358	1.7358	100.0	Pass
Oct	4.3396	4.3396	100.0	Pass
Nov	7.5357	7.5357	100.0	Pass
Dec	7.7140	7.7140	100.0	Pass

Day Predevel Mitigated Percent Pass/Fail

Jan1	0.2560	0.2560	100.0	Pass
2	0.2033	0.2033	100.0	Pass
3	0.2559	0.2559	100.0	Pass
4	0.2985	0.2985	100.0	Pass

5	0.2212	0.2212	100.0	Pass
6	0.3258	0.3258	100.0	Pass
7	0.2569	0.2569	100.0	Pass
8	0.2570	0.2570	100.0	Pass
9	0.2724	0.2724	100.0	Pass
10	0.2663	0.2663	100.0	Pass
11	0.3238	0.3238	100.0	Pass
12	0.2577	0.2577	100.0	Pass
13	0.3207	0.3207	100.0	Pass
14	0.3211	0.3211	100.0	Pass
15	0.2942	0.2942	100.0	Pass
16	0.2440	0.2440	100.0	Pass
17	0.2330	0.2330	100.0	Pass
18	0.2058	0.2058	100.0	Pass
19	0.2040	0.2040	100.0	Pass
20	0.1366	0.1366	100.0	Pass
21	0.2505	0.2505	100.0	Pass
22	0.3066	0.3066	100.0	Pass
23	0.3448	0.3448	100.0	Pass
24	0.2402	0.2402	100.0	Pass
25	0.2038	0.2038	100.0	Pass
26	0.1839	0.1839	100.0	Pass
27	0.2279	0.2279	100.0	Pass
28	0.2889	0.2889	100.0	Pass
29	0.2245	0.2245	100.0	Pass
30	0.2623	0.2623	100.0	Pass
31	0.1619	0.1619	100.0	Pass
Feb1	0.1814	0.1814	100.0	Pass
2	0.1650	0.1650	100.0	Pass
3	0.1497	0.1497	100.0	Pass
4	0.1387	0.1387	100.0	Pass
5	0.2498	0.2498	100.0	Pass
6	0.1319	0.1319	100.0	Pass
7	0.1857	0.1857	100.0	Pass
8	0.1430	0.1430	100.0	Pass
9	0.1694	0.1694	100.0	Pass
10	0.2243	0.2243	100.0	Pass
11	0.2967	0.2967	100.0	Pass
12	0.2361	0.2361	100.0	Pass
13	0.2513	0.2513	100.0	Pass
14	0.3480	0.3480	100.0	Pass
15	0.2598	0.2598	100.0	Pass
16	0.3346	0.3346	100.0	Pass
17	0.2973	0.2973	100.0	Pass
18	0.2380	0.2380	100.0	Pass
19	0.2065	0.2065	100.0	Pass
20	0.1981	0.1981	100.0	Pass
21	0.1624	0.1624	100.0	Pass
22	0.2337	0.2337	100.0	Pass
23	0.2234	0.2234	100.0	Pass
24	0.2457	0.2457	100.0	Pass
25	0.2211	0.2211	100.0	Pass
26	0.2183	0.2183	100.0	Pass
27	0.1917	0.1917	100.0	Pass
28	0.2407	0.2407	100.0	Pass
29	0.1838	0.1838	100.0	Pass
Mar1	0.1804	0.1804	100.0	Pass

2	0.1485	0.1485	100.0	Pass
3	0.2064	0.2064	100.0	Pass
4	0.2167	0.2167	100.0	Pass
5	0.1718	0.1718	100.0	Pass
6	0.2161	0.2161	100.0	Pass
7	0.2111	0.2111	100.0	Pass
8	0.2060	0.2060	100.0	Pass
9	0.2066	0.2066	100.0	Pass
10	0.1811	0.1811	100.0	Pass
11	0.1956	0.1956	100.0	Pass
12	0.1734	0.1734	100.0	Pass
13	0.2091	0.2091	100.0	Pass
14	0.1674	0.1674	100.0	Pass
15	0.1365	0.1365	100.0	Pass
16	0.1307	0.1307	100.0	Pass
17	0.1763	0.1763	100.0	Pass
18	0.1096	0.1096	100.0	Pass
19	0.1611	0.1611	100.0	Pass
20	0.1308	0.1308	100.0	Pass
21	0.2173	0.2173	100.0	Pass
22	0.2443	0.2443	100.0	Pass
23	0.2050	0.2050	100.0	Pass
24	0.1340	0.1340	100.0	Pass
25	0.2005	0.2005	100.0	Pass
26	0.1484	0.1484	100.0	Pass
27	0.1408	0.1408	100.0	Pass
28	0.1578	0.1578	100.0	Pass
29	0.1445	0.1445	100.0	Pass
30	0.1092	0.1092	100.0	Pass
31	0.0879	0.0879	100.0	Pass
Apr1	0.0932	0.0932	100.0	Pass
2	0.1043	0.1043	100.0	Pass
3	0.1416	0.1416	100.0	Pass
4	0.1297	0.1297	100.0	Pass
5	0.1404	0.1404	100.0	Pass
6	0.0768	0.0768	100.0	Pass
7	0.1238	0.1238	100.0	Pass
8	0.1257	0.1257	100.0	Pass
9	0.1112	0.1112	100.0	Pass
10	0.1108	0.1108	100.0	Pass
11	0.1497	0.1497	100.0	Pass
12	0.1299	0.1299	100.0	Pass
13	0.1350	0.1350	100.0	Pass
14	0.1158	0.1158	100.0	Pass
15	0.1240	0.1240	100.0	Pass
16	0.0700	0.0700	100.0	Pass
17	0.0942	0.0942	100.0	Pass
18	0.1080	0.1080	100.0	Pass
19	0.0598	0.0598	100.0	Pass
20	0.0571	0.0571	100.0	Pass
21	0.0949	0.0949	100.0	Pass
22	0.0795	0.0795	100.0	Pass
23	0.0699	0.0699	100.0	Pass
24	0.0565	0.0565	100.0	Pass
25	0.0674	0.0674	100.0	Pass
26	0.1130	0.1130	100.0	Pass
27	0.0882	0.0882	100.0	Pass

28	0.0921	0.0921	100.0	Pass
29	0.0455	0.0455	100.0	Pass
30	0.0591	0.0591	100.0	Pass
May1	0.0909	0.0909	100.0	Pass
2	0.0668	0.0668	100.0	Pass
3	0.0710	0.0710	100.0	Pass
4	0.0564	0.0564	100.0	Pass
5	0.0541	0.0541	100.0	Pass
6	0.0456	0.0456	100.0	Pass
7	0.0602	0.0602	100.0	Pass
8	0.0372	0.0372	100.0	Pass
9	0.0516	0.0516	100.0	Pass
10	0.0414	0.0414	100.0	Pass
11	0.0388	0.0388	100.0	Pass
12	0.0554	0.0554	100.0	Pass
13	0.0596	0.0596	100.0	Pass
14	0.0583	0.0583	100.0	Pass
15	0.0394	0.0394	100.0	Pass
16	0.0506	0.0506	100.0	Pass
17	0.0416	0.0416	100.0	Pass
18	0.0669	0.0669	100.0	Pass
19	0.0356	0.0356	100.0	Pass
20	0.0344	0.0344	100.0	Pass
21	0.0352	0.0352	100.0	Pass
22	0.0430	0.0430	100.0	Pass
23	0.0380	0.0380	100.0	Pass
24	0.0399	0.0399	100.0	Pass
25	0.0334	0.0334	100.0	Pass
26	0.0578	0.0578	100.0	Pass
27	0.0455	0.0455	100.0	Pass
28	0.0492	0.0492	100.0	Pass
29	0.0671	0.0671	100.0	Pass
30	0.0436	0.0436	100.0	Pass
31	0.0475	0.0475	100.0	Pass
Jun1	0.0359	0.0359	100.0	Pass
2	0.0584	0.0584	100.0	Pass
3	0.0553	0.0553	100.0	Pass
4	0.0398	0.0398	100.0	Pass
5	0.0664	0.0664	100.0	Pass
6	0.0255	0.0255	100.0	Pass
7	0.0388	0.0388	100.0	Pass
8	0.0544	0.0544	100.0	Pass
9	0.0410	0.0410	100.0	Pass
10	0.0388	0.0388	100.0	Pass
11	0.0282	0.0282	100.0	Pass
12	0.0341	0.0341	100.0	Pass
13	0.0545	0.0545	100.0	Pass
14	0.0226	0.0226	100.0	Pass
15	0.0448	0.0448	100.0	Pass
16	0.0199	0.0199	100.0	Pass
17	0.0279	0.0279	100.0	Pass
18	0.0191	0.0191	100.0	Pass
19	0.0224	0.0224	100.0	Pass
20	0.0243	0.0243	100.0	Pass
21	0.0245	0.0245	100.0	Pass
22	0.0134	0.0134	100.0	Pass
23	0.0682	0.0682	100.0	Pass

24	0.0187	0.0187	100.0	Pass
25	0.0304	0.0304	100.0	Pass
26	0.0181	0.0181	100.0	Pass
27	0.0163	0.0163	100.0	Pass
28	0.0168	0.0168	100.0	Pass
29	0.0221	0.0221	100.0	Pass
30	0.0481	0.0481	100.0	Pass
Jul11	0.0121	0.0121	100.0	Pass
2	0.0103	0.0103	100.0	Pass
3	0.0112	0.0112	100.0	Pass
4	0.0271	0.0271	100.0	Pass
5	0.0203	0.0203	100.0	Pass
6	0.0154	0.0154	100.0	Pass
7	0.0300	0.0300	100.0	Pass
8	0.0171	0.0171	100.0	Pass
9	0.0355	0.0355	100.0	Pass
10	0.0232	0.0232	100.0	Pass
11	0.0477	0.0477	100.0	Pass
12	0.0247	0.0247	100.0	Pass
13	0.0181	0.0181	100.0	Pass
14	0.0275	0.0275	100.0	Pass
15	0.0111	0.0111	100.0	Pass
16	0.0070	0.0070	100.0	Pass
17	0.0236	0.0236	100.0	Pass
18	0.0081	0.0081	100.0	Pass
19	0.0098	0.0098	100.0	Pass
20	0.0171	0.0171	100.0	Pass
21	0.0137	0.0137	100.0	Pass
22	0.0013	0.0013	100.0	Pass
23	0.0039	0.0039	100.0	Pass
24	0.0045	0.0045	100.0	Pass
25	0.0099	0.0099	100.0	Pass
26	0.0041	0.0041	100.0	Pass
27	0.0062	0.0062	100.0	Pass
28	0.0051	0.0051	100.0	Pass
29	0.0033	0.0033	100.0	Pass
30	0.0057	0.0057	100.0	Pass
31	0.0066	0.0066	100.0	Pass
Aug1	0.0271	0.0271	100.0	Pass
2	0.0095	0.0095	100.0	Pass
3	0.0036	0.0036	100.0	Pass
4	0.0036	0.0036	100.0	Pass
5	0.0309	0.0309	100.0	Pass
6	0.0208	0.0208	100.0	Pass
7	0.0075	0.0075	100.0	Pass
8	0.0076	0.0076	100.0	Pass
9	0.0006	0.0006	100.0	Pass
10	0.0040	0.0040	100.0	Pass
11	0.0197	0.0197	100.0	Pass
12	0.0169	0.0169	100.0	Pass
13	0.0213	0.0213	100.0	Pass
14	0.0132	0.0132	100.0	Pass
15	0.0119	0.0119	100.0	Pass
16	0.0101	0.0101	100.0	Pass
17	0.0195	0.0195	100.0	Pass
18	0.0377	0.0377	100.0	Pass
19	0.0107	0.0107	100.0	Pass

20	0.0293	0.0293	100.0	Pass
21	0.0272	0.0272	100.0	Pass
22	0.0528	0.0528	100.0	Pass
23	0.0499	0.0499	100.0	Pass
24	0.0439	0.0439	100.0	Pass
25	0.0181	0.0181	100.0	Pass
26	0.0512	0.0512	100.0	Pass
27	0.0525	0.0525	100.0	Pass
28	0.0529	0.0529	100.0	Pass
29	0.0334	0.0334	100.0	Pass
30	0.0531	0.0531	100.0	Pass
31	0.0847	0.0847	100.0	Pass
Sep1	0.0339	0.0339	100.0	Pass
2	0.0341	0.0341	100.0	Pass
3	0.0366	0.0366	100.0	Pass
4	0.0455	0.0455	100.0	Pass
5	0.0391	0.0391	100.0	Pass
6	0.0269	0.0269	100.0	Pass
7	0.0518	0.0518	100.0	Pass
8	0.0333	0.0333	100.0	Pass
9	0.0840	0.0840	100.0	Pass
10	0.0204	0.0204	100.0	Pass
11	0.0170	0.0170	100.0	Pass
12	0.0444	0.0444	100.0	Pass
13	0.0835	0.0835	100.0	Pass
14	0.0539	0.0539	100.0	Pass
15	0.0810	0.0810	100.0	Pass
16	0.0870	0.0870	100.0	Pass
17	0.0941	0.0941	100.0	Pass
18	0.0849	0.0849	100.0	Pass
19	0.0912	0.0912	100.0	Pass
20	0.0675	0.0675	100.0	Pass
21	0.0928	0.0928	100.0	Pass
22	0.0747	0.0747	100.0	Pass
23	0.0588	0.0588	100.0	Pass
24	0.0422	0.0422	100.0	Pass
25	0.0442	0.0442	100.0	Pass
26	0.0447	0.0447	100.0	Pass
27	0.0611	0.0611	100.0	Pass
28	0.0529	0.0529	100.0	Pass
29	0.0698	0.0698	100.0	Pass
30	0.0511	0.0511	100.0	Pass
Oct1	0.0361	0.0361	100.0	Pass
2	0.0892	0.0892	100.0	Pass
3	0.0801	0.0801	100.0	Pass
4	0.0983	0.0983	100.0	Pass
5	0.1047	0.1047	100.0	Pass
6	0.1156	0.1156	100.0	Pass
7	0.1482	0.1482	100.0	Pass
8	0.1216	0.1216	100.0	Pass
9	0.0948	0.0948	100.0	Pass
10	0.0776	0.0776	100.0	Pass
11	0.1446	0.1446	100.0	Pass
12	0.0984	0.0984	100.0	Pass
13	0.1359	0.1359	100.0	Pass
14	0.0793	0.0793	100.0	Pass
15	0.0926	0.0926	100.0	Pass

16	0.1246	0.1246	100.0	Pass
17	0.1142	0.1142	100.0	Pass
18	0.1822	0.1822	100.0	Pass
19	0.2252	0.2252	100.0	Pass
20	0.1949	0.1949	100.0	Pass
21	0.2352	0.2352	100.0	Pass
22	0.1415	0.1415	100.0	Pass
23	0.2290	0.2290	100.0	Pass
24	0.2019	0.2019	100.0	Pass
25	0.1812	0.1812	100.0	Pass
26	0.2183	0.2183	100.0	Pass
27	0.1870	0.1870	100.0	Pass
28	0.1739	0.1739	100.0	Pass
29	0.1477	0.1477	100.0	Pass
30	0.2152	0.2152	100.0	Pass
31	0.1835	0.1835	100.0	Pass
Nov1	0.2305	0.2305	100.0	Pass
2	0.2768	0.2768	100.0	Pass
3	0.2188	0.2188	100.0	Pass
4	0.2204	0.2204	100.0	Pass
5	0.2434	0.2434	100.0	Pass
6	0.2050	0.2050	100.0	Pass
7	0.1857	0.1857	100.0	Pass
8	0.2370	0.2370	100.0	Pass
9	0.2803	0.2803	100.0	Pass
10	0.2417	0.2417	100.0	Pass
11	0.2694	0.2694	100.0	Pass
12	0.2493	0.2493	100.0	Pass
13	0.1893	0.1893	100.0	Pass
14	0.2189	0.2189	100.0	Pass
15	0.2455	0.2455	100.0	Pass
16	0.2563	0.2563	100.0	Pass
17	0.2354	0.2354	100.0	Pass
18	0.3436	0.3436	100.0	Pass
19	0.3095	0.3095	100.0	Pass
20	0.2077	0.2077	100.0	Pass
21	0.3209	0.3209	100.0	Pass
22	0.3776	0.3776	100.0	Pass
23	0.2918	0.2918	100.0	Pass
24	0.3320	0.3320	100.0	Pass
25	0.2226	0.2226	100.0	Pass
26	0.1808	0.1808	100.0	Pass
27	0.2163	0.2163	100.0	Pass
28	0.2065	0.2065	100.0	Pass
29	0.3395	0.3395	100.0	Pass
30	0.2745	0.2745	100.0	Pass
Dec1	0.3018	0.3018	100.0	Pass
2	0.2935	0.2935	100.0	Pass
3	0.1905	0.1905	100.0	Pass
4	0.2089	0.2089	100.0	Pass
5	0.1804	0.1804	100.0	Pass
6	0.1559	0.1559	100.0	Pass
7	0.2220	0.2220	100.0	Pass
8	0.2788	0.2788	100.0	Pass
9	0.2782	0.2782	100.0	Pass
10	0.3007	0.3007	100.0	Pass
11	0.2210	0.2210	100.0	Pass

12	0.2380	0.2380	100.0	Pass
13	0.3507	0.3507	100.0	Pass
14	0.2477	0.2477	100.0	Pass
15	0.3197	0.3197	100.0	Pass
16	0.2190	0.2190	100.0	Pass
17	0.2581	0.2581	100.0	Pass
18	0.2133	0.2133	100.0	Pass
19	0.2482	0.2482	100.0	Pass
20	0.2445	0.2445	100.0	Pass
21	0.2691	0.2691	100.0	Pass
22	0.2645	0.2645	100.0	Pass
23	0.2869	0.2869	100.0	Pass
24	0.3169	0.3169	100.0	Pass
25	0.2776	0.2776	100.0	Pass
26	0.2534	0.2534	100.0	Pass
27	0.1715	0.1715	100.0	Pass
28	0.2661	0.2661	100.0	Pass
29	0.1786	0.1786	100.0	Pass
30	0.1847	0.1847	100.0	Pass
31	0.3083	0.3083	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #8

Total Pervious Area:0.057
Total Impervious Area:0.156

Mitigated Landuse Totals for POC #8

Total Pervious Area:0.057
Total Impervious Area:0.156

Flow Frequency Return Periods for Predeveloped. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.121291
5 year	0.146112
10 year	0.159678
25 year	0.174443
50 year	0.184085
100 year	0.192791

Flow Frequency Return Periods for Mitigated. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.121291
5 year	0.146112
10 year	0.159678
25 year	0.174443
50 year	0.184085
100 year	0.192791

Stream Protection Duration**Annual Peaks for Predeveloped and Mitigated. POC #8**

Year	Predeveloped	Mitigated
1956	0.132	0.132
1957	0.159	0.159
1958	0.120	0.120
1959	0.126	0.126
1960	0.132	0.132
1961	0.099	0.099
1962	0.173	0.173
1963	0.157	0.157
1964	0.133	0.133
1965	0.134	0.134
1966	0.134	0.134
1967	0.081	0.081
1968	0.126	0.126
1969	0.122	0.122
1970	0.109	0.109
1971	0.176	0.176
1972	0.151	0.151
1973	0.135	0.135
1974	0.134	0.134
1975	0.117	0.117
1976	0.143	0.143
1977	0.102	0.102
1978	0.177	0.177
1979	0.113	0.113
1980	0.102	0.102
1981	0.130	0.130
1982	0.150	0.150
1983	0.119	0.119
1984	0.113	0.113
1985	0.080	0.080
1986	0.135	0.135
1987	0.093	0.093
1988	0.144	0.144
1989	0.118	0.118
1990	0.159	0.159
1991	0.096	0.096
1992	0.077	0.077
1993	0.085	0.085
1994	0.114	0.114
1995	0.103	0.103
1996	0.127	0.127
1997	0.131	0.131
1998	0.080	0.080
1999	0.103	0.103
2000	0.094	0.094
2001	0.088	0.088
2002	0.131	0.131
2003	0.170	0.170
2004	0.156	0.156
2005	0.122	0.122
2006	0.125	0.125
2007	0.148	0.148
2008	0.073	0.073
2009	0.069	0.069

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	0.1774	0.1774
2	0.1764	0.1764
3	0.1732	0.1732
4	0.1703	0.1703
5	0.1588	0.1588
6	0.1586	0.1586
7	0.1569	0.1569
8	0.1562	0.1562
9	0.1506	0.1506
10	0.1500	0.1500
11	0.1484	0.1484
12	0.1437	0.1437
13	0.1434	0.1434
14	0.1347	0.1347
15	0.1345	0.1345
16	0.1339	0.1339
17	0.1339	0.1339
18	0.1335	0.1335
19	0.1328	0.1328
20	0.1323	0.1323
21	0.1317	0.1317
22	0.1314	0.1314
23	0.1306	0.1306
24	0.1301	0.1301
25	0.1273	0.1273
26	0.1263	0.1263
27	0.1261	0.1261
28	0.1249	0.1249
29	0.1222	0.1222
30	0.1217	0.1217
31	0.1196	0.1196
32	0.1186	0.1186
33	0.1179	0.1179
34	0.1165	0.1165
35	0.1138	0.1138
36	0.1128	0.1128
37	0.1126	0.1126
38	0.1093	0.1093
39	0.1032	0.1032
40	0.1031	0.1031
41	0.1024	0.1024
42	0.1017	0.1017
43	0.0988	0.0988
44	0.0961	0.0961
45	0.0943	0.0943
46	0.0934	0.0934
47	0.0884	0.0884
48	0.0847	0.0847
49	0.0815	0.0815
50	0.0804	0.0804
51	0.0801	0.0801
52	0.0765	0.0765

53	0.0735	0.0735
54	0.0689	0.0689

Stream Protection Duration

POC #8

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0606	988	988	100	Pass
0.0619	910	910	100	Pass
0.0631	838	838	100	Pass
0.0644	788	788	100	Pass
0.0656	731	731	100	Pass
0.0669	675	675	100	Pass
0.0681	620	620	100	Pass
0.0694	580	580	100	Pass
0.0706	549	549	100	Pass
0.0719	505	505	100	Pass
0.0731	471	471	100	Pass
0.0744	437	437	100	Pass
0.0756	410	410	100	Pass
0.0769	386	386	100	Pass
0.0781	359	359	100	Pass
0.0793	337	337	100	Pass
0.0806	313	313	100	Pass
0.0818	295	295	100	Pass
0.0831	274	274	100	Pass
0.0843	256	256	100	Pass
0.0856	238	238	100	Pass
0.0868	228	228	100	Pass
0.0881	213	213	100	Pass
0.0893	204	204	100	Pass
0.0906	192	192	100	Pass
0.0918	180	180	100	Pass
0.0931	173	173	100	Pass
0.0943	163	163	100	Pass
0.0956	155	155	100	Pass
0.0968	145	145	100	Pass
0.0981	139	139	100	Pass
0.0993	133	133	100	Pass
0.1005	128	128	100	Pass
0.1018	121	121	100	Pass
0.1030	109	109	100	Pass
0.1043	101	101	100	Pass
0.1055	98	98	100	Pass
0.1068	93	93	100	Pass
0.1080	91	91	100	Pass
0.1093	90	90	100	Pass
0.1105	84	84	100	Pass
0.1118	80	80	100	Pass
0.1130	75	75	100	Pass
0.1143	72	72	100	Pass
0.1155	70	70	100	Pass
0.1168	66	66	100	Pass

0.1180	61	61	100	Pass
0.1192	54	54	100	Pass
0.1205	52	52	100	Pass
0.1217	51	51	100	Pass
0.1230	48	48	100	Pass
0.1242	47	47	100	Pass
0.1255	45	45	100	Pass
0.1267	43	43	100	Pass
0.1280	41	41	100	Pass
0.1292	40	40	100	Pass
0.1305	37	37	100	Pass
0.1317	34	34	100	Pass
0.1330	31	31	100	Pass
0.1342	28	28	100	Pass
0.1355	24	24	100	Pass
0.1367	24	24	100	Pass
0.1380	24	24	100	Pass
0.1392	23	23	100	Pass
0.1404	22	22	100	Pass
0.1417	20	20	100	Pass
0.1429	20	20	100	Pass
0.1442	16	16	100	Pass
0.1454	15	15	100	Pass
0.1467	15	15	100	Pass
0.1479	15	15	100	Pass
0.1492	13	13	100	Pass
0.1504	12	12	100	Pass
0.1517	10	10	100	Pass
0.1529	10	10	100	Pass
0.1542	10	10	100	Pass
0.1554	10	10	100	Pass
0.1567	9	9	100	Pass
0.1579	8	8	100	Pass
0.1591	6	6	100	Pass
0.1604	6	6	100	Pass
0.1616	6	6	100	Pass
0.1629	5	5	100	Pass
0.1641	5	5	100	Pass
0.1654	5	5	100	Pass
0.1666	5	5	100	Pass
0.1679	4	4	100	Pass
0.1691	4	4	100	Pass
0.1704	3	3	100	Pass
0.1716	3	3	100	Pass
0.1729	3	3	100	Pass
0.1741	2	2	100	Pass
0.1754	2	2	100	Pass
0.1766	1	1	100	Pass
0.1779	0	0	100	Pass
0.1791	0	0	0	Pass
0.1803	0	0	0	Pass
0.1816	0	0	0	Pass
0.1828	0	0	0	Pass
0.1841	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #8
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 8
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	7.9953	7.9953	100.0	Pass
Feb	6.1297	6.1297	100.0	Pass
Mar	5.4204	5.4204	100.0	Pass
Apr	2.9956	2.9956	100.0	Pass
May	1.5674	1.5674	100.0	Pass
Jun	1.0279	1.0279	100.0	Pass
Jul	0.5022	0.5022	100.0	Pass
Aug	0.7470	0.7470	100.0	Pass
Sep	1.7358	1.7358	100.0	Pass
Oct	4.3396	4.3396	100.0	Pass
Nov	7.5357	7.5357	100.0	Pass
Dec	7.7140	7.7140	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.2560	0.2560	100.0	Pass
2	0.2033	0.2033	100.0	Pass
3	0.2559	0.2559	100.0	Pass
4	0.2985	0.2985	100.0	Pass
5	0.2212	0.2212	100.0	Pass
6	0.3258	0.3258	100.0	Pass
7	0.2569	0.2569	100.0	Pass
8	0.2570	0.2570	100.0	Pass
9	0.2724	0.2724	100.0	Pass
10	0.2663	0.2663	100.0	Pass
11	0.3238	0.3238	100.0	Pass
12	0.2577	0.2577	100.0	Pass
13	0.3207	0.3207	100.0	Pass
14	0.3211	0.3211	100.0	Pass
15	0.2942	0.2942	100.0	Pass
16	0.2440	0.2440	100.0	Pass
17	0.2330	0.2330	100.0	Pass
18	0.2058	0.2058	100.0	Pass
19	0.2040	0.2040	100.0	Pass
20	0.1366	0.1366	100.0	Pass
21	0.2505	0.2505	100.0	Pass
22	0.3066	0.3066	100.0	Pass
23	0.3448	0.3448	100.0	Pass
24	0.2402	0.2402	100.0	Pass
25	0.2038	0.2038	100.0	Pass
26	0.1839	0.1839	100.0	Pass
27	0.2279	0.2279	100.0	Pass
28	0.2889	0.2889	100.0	Pass
29	0.2245	0.2245	100.0	Pass
30	0.2623	0.2623	100.0	Pass
31	0.1619	0.1619	100.0	Pass

Feb1	0.1814	0.1814	100.0	Pass
2	0.1650	0.1650	100.0	Pass
3	0.1497	0.1497	100.0	Pass
4	0.1387	0.1387	100.0	Pass
5	0.2498	0.2498	100.0	Pass
6	0.1319	0.1319	100.0	Pass
7	0.1857	0.1857	100.0	Pass
8	0.1430	0.1430	100.0	Pass
9	0.1694	0.1694	100.0	Pass
10	0.2243	0.2243	100.0	Pass
11	0.2967	0.2967	100.0	Pass
12	0.2361	0.2361	100.0	Pass
13	0.2513	0.2513	100.0	Pass
14	0.3480	0.3480	100.0	Pass
15	0.2598	0.2598	100.0	Pass
16	0.3346	0.3346	100.0	Pass
17	0.2973	0.2973	100.0	Pass
18	0.2380	0.2380	100.0	Pass
19	0.2065	0.2065	100.0	Pass
20	0.1981	0.1981	100.0	Pass
21	0.1624	0.1624	100.0	Pass
22	0.2337	0.2337	100.0	Pass
23	0.2234	0.2234	100.0	Pass
24	0.2457	0.2457	100.0	Pass
25	0.2211	0.2211	100.0	Pass
26	0.2183	0.2183	100.0	Pass
27	0.1917	0.1917	100.0	Pass
28	0.2407	0.2407	100.0	Pass
29	0.1838	0.1838	100.0	Pass
Mar1	0.1804	0.1804	100.0	Pass
2	0.1485	0.1485	100.0	Pass
3	0.2064	0.2064	100.0	Pass
4	0.2167	0.2167	100.0	Pass
5	0.1718	0.1718	100.0	Pass
6	0.2161	0.2161	100.0	Pass
7	0.2111	0.2111	100.0	Pass
8	0.2060	0.2060	100.0	Pass
9	0.2066	0.2066	100.0	Pass
10	0.1811	0.1811	100.0	Pass
11	0.1956	0.1956	100.0	Pass
12	0.1734	0.1734	100.0	Pass
13	0.2091	0.2091	100.0	Pass
14	0.1674	0.1674	100.0	Pass
15	0.1365	0.1365	100.0	Pass
16	0.1307	0.1307	100.0	Pass
17	0.1763	0.1763	100.0	Pass
18	0.1096	0.1096	100.0	Pass
19	0.1611	0.1611	100.0	Pass
20	0.1308	0.1308	100.0	Pass
21	0.2173	0.2173	100.0	Pass
22	0.2443	0.2443	100.0	Pass
23	0.2050	0.2050	100.0	Pass
24	0.1340	0.1340	100.0	Pass
25	0.2005	0.2005	100.0	Pass
26	0.1484	0.1484	100.0	Pass
27	0.1408	0.1408	100.0	Pass
28	0.1578	0.1578	100.0	Pass

29	0.1445	0.1445	100.0	Pass
30	0.1092	0.1092	100.0	Pass
31	0.0879	0.0879	100.0	Pass
Apr1	0.0932	0.0932	100.0	Pass
2	0.1043	0.1043	100.0	Pass
3	0.1416	0.1416	100.0	Pass
4	0.1297	0.1297	100.0	Pass
5	0.1404	0.1404	100.0	Pass
6	0.0768	0.0768	100.0	Pass
7	0.1238	0.1238	100.0	Pass
8	0.1257	0.1257	100.0	Pass
9	0.1112	0.1112	100.0	Pass
10	0.1108	0.1108	100.0	Pass
11	0.1497	0.1497	100.0	Pass
12	0.1299	0.1299	100.0	Pass
13	0.1350	0.1350	100.0	Pass
14	0.1158	0.1158	100.0	Pass
15	0.1240	0.1240	100.0	Pass
16	0.0700	0.0700	100.0	Pass
17	0.0942	0.0942	100.0	Pass
18	0.1080	0.1080	100.0	Pass
19	0.0598	0.0598	100.0	Pass
20	0.0571	0.0571	100.0	Pass
21	0.0949	0.0949	100.0	Pass
22	0.0795	0.0795	100.0	Pass
23	0.0699	0.0699	100.0	Pass
24	0.0565	0.0565	100.0	Pass
25	0.0674	0.0674	100.0	Pass
26	0.1130	0.1130	100.0	Pass
27	0.0882	0.0882	100.0	Pass
28	0.0921	0.0921	100.0	Pass
29	0.0455	0.0455	100.0	Pass
30	0.0591	0.0591	100.0	Pass
May1	0.0909	0.0909	100.0	Pass
2	0.0668	0.0668	100.0	Pass
3	0.0710	0.0710	100.0	Pass
4	0.0564	0.0564	100.0	Pass
5	0.0541	0.0541	100.0	Pass
6	0.0456	0.0456	100.0	Pass
7	0.0602	0.0602	100.0	Pass
8	0.0372	0.0372	100.0	Pass
9	0.0516	0.0516	100.0	Pass
10	0.0414	0.0414	100.0	Pass
11	0.0388	0.0388	100.0	Pass
12	0.0554	0.0554	100.0	Pass
13	0.0596	0.0596	100.0	Pass
14	0.0583	0.0583	100.0	Pass
15	0.0394	0.0394	100.0	Pass
16	0.0506	0.0506	100.0	Pass
17	0.0416	0.0416	100.0	Pass
18	0.0669	0.0669	100.0	Pass
19	0.0356	0.0356	100.0	Pass
20	0.0344	0.0344	100.0	Pass
21	0.0352	0.0352	100.0	Pass
22	0.0430	0.0430	100.0	Pass
23	0.0380	0.0380	100.0	Pass
24	0.0399	0.0399	100.0	Pass

25	0.0334	0.0334	100.0	Pass
26	0.0578	0.0578	100.0	Pass
27	0.0455	0.0455	100.0	Pass
28	0.0492	0.0492	100.0	Pass
29	0.0671	0.0671	100.0	Pass
30	0.0436	0.0436	100.0	Pass
31	0.0475	0.0475	100.0	Pass
Jun1	0.0359	0.0359	100.0	Pass
2	0.0584	0.0584	100.0	Pass
3	0.0553	0.0553	100.0	Pass
4	0.0398	0.0398	100.0	Pass
5	0.0664	0.0664	100.0	Pass
6	0.0255	0.0255	100.0	Pass
7	0.0388	0.0388	100.0	Pass
8	0.0544	0.0544	100.0	Pass
9	0.0410	0.0410	100.0	Pass
10	0.0388	0.0388	100.0	Pass
11	0.0282	0.0282	100.0	Pass
12	0.0341	0.0341	100.0	Pass
13	0.0545	0.0545	100.0	Pass
14	0.0226	0.0226	100.0	Pass
15	0.0448	0.0448	100.0	Pass
16	0.0199	0.0199	100.0	Pass
17	0.0279	0.0279	100.0	Pass
18	0.0191	0.0191	100.0	Pass
19	0.0224	0.0224	100.0	Pass
20	0.0243	0.0243	100.0	Pass
21	0.0245	0.0245	100.0	Pass
22	0.0134	0.0134	100.0	Pass
23	0.0682	0.0682	100.0	Pass
24	0.0187	0.0187	100.0	Pass
25	0.0304	0.0304	100.0	Pass
26	0.0181	0.0181	100.0	Pass
27	0.0163	0.0163	100.0	Pass
28	0.0168	0.0168	100.0	Pass
29	0.0221	0.0221	100.0	Pass
30	0.0481	0.0481	100.0	Pass
Jul1	0.0121	0.0121	100.0	Pass
2	0.0103	0.0103	100.0	Pass
3	0.0112	0.0112	100.0	Pass
4	0.0271	0.0271	100.0	Pass
5	0.0203	0.0203	100.0	Pass
6	0.0154	0.0154	100.0	Pass
7	0.0300	0.0300	100.0	Pass
8	0.0171	0.0171	100.0	Pass
9	0.0355	0.0355	100.0	Pass
10	0.0232	0.0232	100.0	Pass
11	0.0477	0.0477	100.0	Pass
12	0.0247	0.0247	100.0	Pass
13	0.0181	0.0181	100.0	Pass
14	0.0275	0.0275	100.0	Pass
15	0.0111	0.0111	100.0	Pass
16	0.0070	0.0070	100.0	Pass
17	0.0236	0.0236	100.0	Pass
18	0.0081	0.0081	100.0	Pass
19	0.0098	0.0098	100.0	Pass
20	0.0171	0.0171	100.0	Pass

21	0.0137	0.0137	100.0	Pass
22	0.0013	0.0013	100.0	Pass
23	0.0039	0.0039	100.0	Pass
24	0.0045	0.0045	100.0	Pass
25	0.0099	0.0099	100.0	Pass
26	0.0041	0.0041	100.0	Pass
27	0.0062	0.0062	100.0	Pass
28	0.0051	0.0051	100.0	Pass
29	0.0033	0.0033	100.0	Pass
30	0.0057	0.0057	100.0	Pass
31	0.0066	0.0066	100.0	Pass
Aug1	0.0271	0.0271	100.0	Pass
2	0.0095	0.0095	100.0	Pass
3	0.0036	0.0036	100.0	Pass
4	0.0036	0.0036	100.0	Pass
5	0.0309	0.0309	100.0	Pass
6	0.0208	0.0208	100.0	Pass
7	0.0075	0.0075	100.0	Pass
8	0.0076	0.0076	100.0	Pass
9	0.0006	0.0006	100.0	Pass
10	0.0040	0.0040	100.0	Pass
11	0.0197	0.0197	100.0	Pass
12	0.0169	0.0169	100.0	Pass
13	0.0213	0.0213	100.0	Pass
14	0.0132	0.0132	100.0	Pass
15	0.0119	0.0119	100.0	Pass
16	0.0101	0.0101	100.0	Pass
17	0.0195	0.0195	100.0	Pass
18	0.0377	0.0377	100.0	Pass
19	0.0107	0.0107	100.0	Pass
20	0.0293	0.0293	100.0	Pass
21	0.0272	0.0272	100.0	Pass
22	0.0528	0.0528	100.0	Pass
23	0.0499	0.0499	100.0	Pass
24	0.0439	0.0439	100.0	Pass
25	0.0181	0.0181	100.0	Pass
26	0.0512	0.0512	100.0	Pass
27	0.0525	0.0525	100.0	Pass
28	0.0529	0.0529	100.0	Pass
29	0.0334	0.0334	100.0	Pass
30	0.0531	0.0531	100.0	Pass
31	0.0847	0.0847	100.0	Pass
Sep1	0.0339	0.0339	100.0	Pass
2	0.0341	0.0341	100.0	Pass
3	0.0366	0.0366	100.0	Pass
4	0.0455	0.0455	100.0	Pass
5	0.0391	0.0391	100.0	Pass
6	0.0269	0.0269	100.0	Pass
7	0.0518	0.0518	100.0	Pass
8	0.0333	0.0333	100.0	Pass
9	0.0840	0.0840	100.0	Pass
10	0.0204	0.0204	100.0	Pass
11	0.0170	0.0170	100.0	Pass
12	0.0444	0.0444	100.0	Pass
13	0.0835	0.0835	100.0	Pass
14	0.0539	0.0539	100.0	Pass
15	0.0810	0.0810	100.0	Pass

16	0.0870	0.0870	100.0	Pass
17	0.0941	0.0941	100.0	Pass
18	0.0849	0.0849	100.0	Pass
19	0.0912	0.0912	100.0	Pass
20	0.0675	0.0675	100.0	Pass
21	0.0928	0.0928	100.0	Pass
22	0.0747	0.0747	100.0	Pass
23	0.0588	0.0588	100.0	Pass
24	0.0422	0.0422	100.0	Pass
25	0.0442	0.0442	100.0	Pass
26	0.0447	0.0447	100.0	Pass
27	0.0611	0.0611	100.0	Pass
28	0.0529	0.0529	100.0	Pass
29	0.0698	0.0698	100.0	Pass
30	0.0511	0.0511	100.0	Pass
Oct1	0.0361	0.0361	100.0	Pass
2	0.0892	0.0892	100.0	Pass
3	0.0801	0.0801	100.0	Pass
4	0.0983	0.0983	100.0	Pass
5	0.1047	0.1047	100.0	Pass
6	0.1156	0.1156	100.0	Pass
7	0.1482	0.1482	100.0	Pass
8	0.1216	0.1216	100.0	Pass
9	0.0948	0.0948	100.0	Pass
10	0.0776	0.0776	100.0	Pass
11	0.1446	0.1446	100.0	Pass
12	0.0984	0.0984	100.0	Pass
13	0.1359	0.1359	100.0	Pass
14	0.0793	0.0793	100.0	Pass
15	0.0926	0.0926	100.0	Pass
16	0.1246	0.1246	100.0	Pass
17	0.1142	0.1142	100.0	Pass
18	0.1822	0.1822	100.0	Pass
19	0.2252	0.2252	100.0	Pass
20	0.1949	0.1949	100.0	Pass
21	0.2352	0.2352	100.0	Pass
22	0.1415	0.1415	100.0	Pass
23	0.2290	0.2290	100.0	Pass
24	0.2019	0.2019	100.0	Pass
25	0.1812	0.1812	100.0	Pass
26	0.2183	0.2183	100.0	Pass
27	0.1870	0.1870	100.0	Pass
28	0.1739	0.1739	100.0	Pass
29	0.1477	0.1477	100.0	Pass
30	0.2152	0.2152	100.0	Pass
31	0.1835	0.1835	100.0	Pass
Nov1	0.2305	0.2305	100.0	Pass
2	0.2768	0.2768	100.0	Pass
3	0.2188	0.2188	100.0	Pass
4	0.2204	0.2204	100.0	Pass
5	0.2434	0.2434	100.0	Pass
6	0.2050	0.2050	100.0	Pass
7	0.1857	0.1857	100.0	Pass
8	0.2370	0.2370	100.0	Pass
9	0.2803	0.2803	100.0	Pass
10	0.2417	0.2417	100.0	Pass
11	0.2694	0.2694	100.0	Pass

12	0.2493	0.2493	100.0	Pass
13	0.1893	0.1893	100.0	Pass
14	0.2189	0.2189	100.0	Pass
15	0.2455	0.2455	100.0	Pass
16	0.2563	0.2563	100.0	Pass
17	0.2354	0.2354	100.0	Pass
18	0.3436	0.3436	100.0	Pass
19	0.3095	0.3095	100.0	Pass
20	0.2077	0.2077	100.0	Pass
21	0.3209	0.3209	100.0	Pass
22	0.3776	0.3776	100.0	Pass
23	0.2918	0.2918	100.0	Pass
24	0.3320	0.3320	100.0	Pass
25	0.2226	0.2226	100.0	Pass
26	0.1808	0.1808	100.0	Pass
27	0.2163	0.2163	100.0	Pass
28	0.2065	0.2065	100.0	Pass
29	0.3395	0.3395	100.0	Pass
30	0.2745	0.2745	100.0	Pass
Decl	0.3018	0.3018	100.0	Pass
2	0.2935	0.2935	100.0	Pass
3	0.1905	0.1905	100.0	Pass
4	0.2089	0.2089	100.0	Pass
5	0.1804	0.1804	100.0	Pass
6	0.1559	0.1559	100.0	Pass
7	0.2220	0.2220	100.0	Pass
8	0.2788	0.2788	100.0	Pass
9	0.2782	0.2782	100.0	Pass
10	0.3007	0.3007	100.0	Pass
11	0.2210	0.2210	100.0	Pass
12	0.2380	0.2380	100.0	Pass
13	0.3507	0.3507	100.0	Pass
14	0.2477	0.2477	100.0	Pass
15	0.3197	0.3197	100.0	Pass
16	0.2190	0.2190	100.0	Pass
17	0.2581	0.2581	100.0	Pass
18	0.2133	0.2133	100.0	Pass
19	0.2482	0.2482	100.0	Pass
20	0.2445	0.2445	100.0	Pass
21	0.2691	0.2691	100.0	Pass
22	0.2645	0.2645	100.0	Pass
23	0.2869	0.2869	100.0	Pass
24	0.3169	0.3169	100.0	Pass
25	0.2776	0.2776	100.0	Pass
26	0.2534	0.2534	100.0	Pass
27	0.1715	0.1715	100.0	Pass
28	0.2661	0.2661	100.0	Pass
29	0.1786	0.1786	100.0	Pass
30	0.1847	0.1847	100.0	Pass
31	0.3083	0.3083	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #9
Total Pervious Area:0.007
Total Impervious Area:0.034

Mitigated Landuse Totals for POC #9
Total Pervious Area:0.007
Total Impervious Area:0.034

Flow Frequency Return Periods for Predeveloped. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.024661
5 year	0.029426
10 year	0.032012
25 year	0.034814
50 year	0.036638
100 year	0.03828

Flow Frequency Return Periods for Mitigated. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.024661
5 year	0.029426
10 year	0.032012
25 year	0.034814
50 year	0.036638
100 year	0.03828

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #9

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.026	0.026
1957	0.032	0.032
1958	0.025	0.025
1959	0.025	0.025
1960	0.026	0.026
1961	0.021	0.021
1962	0.034	0.034
1963	0.031	0.031
1964	0.027	0.027
1965	0.027	0.027
1966	0.027	0.027
1967	0.017	0.017
1968	0.025	0.025
1969	0.024	0.024
1970	0.023	0.023
1971	0.035	0.035
1972	0.030	0.030
1973	0.027	0.027
1974	0.027	0.027
1975	0.024	0.024
1976	0.029	0.029
1977	0.021	0.021
1978	0.036	0.036
1979	0.023	0.023

1980	0.021	0.021
1981	0.026	0.026
1982	0.031	0.031
1983	0.024	0.024
1984	0.023	0.023
1985	0.017	0.017
1986	0.027	0.027
1987	0.019	0.019
1988	0.029	0.029
1989	0.024	0.024
1990	0.032	0.032
1991	0.020	0.020
1992	0.016	0.016
1993	0.018	0.018
1994	0.023	0.023
1995	0.022	0.022
1996	0.027	0.027
1997	0.027	0.027
1998	0.017	0.017
1999	0.021	0.021
2000	0.019	0.019
2001	0.018	0.018
2002	0.028	0.028
2003	0.034	0.034
2004	0.031	0.031
2005	0.025	0.025
2006	0.025	0.025
2007	0.030	0.030
2008	0.015	0.015
2009	0.014	0.014

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #9

Rank	Predeveloped	Mitigated
1	0.0359	0.0359
2	0.0352	0.0352
3	0.0344	0.0344
4	0.0338	0.0338
5	0.0321	0.0321
6	0.0316	0.0316
7	0.0313	0.0313
8	0.0313	0.0313
9	0.0306	0.0306
10	0.0298	0.0298
11	0.0297	0.0297
12	0.0289	0.0289
13	0.0288	0.0288
14	0.0284	0.0284
15	0.0273	0.0273
16	0.0272	0.0272
17	0.0270	0.0270
18	0.0270	0.0270
19	0.0269	0.0269
20	0.0267	0.0267
21	0.0267	0.0267
22	0.0266	0.0266

23	0.0265	0.0265
24	0.0263	0.0263
25	0.0262	0.0262
26	0.0254	0.0254
27	0.0252	0.0252
28	0.0251	0.0251
29	0.0246	0.0246
30	0.0245	0.0245
31	0.0243	0.0243
32	0.0241	0.0241
33	0.0240	0.0240
34	0.0235	0.0235
35	0.0231	0.0231
36	0.0227	0.0227
37	0.0227	0.0227
38	0.0226	0.0226
39	0.0220	0.0220
40	0.0210	0.0210
41	0.0209	0.0209
42	0.0207	0.0207
43	0.0207	0.0207
44	0.0201	0.0201
45	0.0192	0.0192
46	0.0189	0.0189
47	0.0185	0.0185
48	0.0176	0.0176
49	0.0169	0.0169
50	0.0168	0.0168
51	0.0167	0.0167
52	0.0159	0.0159
53	0.0153	0.0153
54	0.0144	0.0144

Stream Protection Duration

POC #9

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0123	1068	1068	100	Pass
0.0126	994	994	100	Pass
0.0128	925	925	100	Pass
0.0131	873	873	100	Pass
0.0133	807	807	100	Pass
0.0136	749	749	100	Pass
0.0138	690	690	100	Pass
0.0140	640	640	100	Pass
0.0143	591	591	100	Pass
0.0145	549	549	100	Pass
0.0148	511	511	100	Pass
0.0150	480	480	100	Pass
0.0153	440	440	100	Pass
0.0155	415	415	100	Pass
0.0158	387	387	100	Pass
0.0160	358	358	100	Pass

0.0163	338	338	100	Pass
0.0165	315	315	100	Pass
0.0168	299	299	100	Pass
0.0170	279	279	100	Pass
0.0172	259	259	100	Pass
0.0175	247	247	100	Pass
0.0177	236	236	100	Pass
0.0180	223	223	100	Pass
0.0182	209	209	100	Pass
0.0185	192	192	100	Pass
0.0187	186	186	100	Pass
0.0190	174	174	100	Pass
0.0192	164	164	100	Pass
0.0195	158	158	100	Pass
0.0197	152	152	100	Pass
0.0199	146	146	100	Pass
0.0202	139	139	100	Pass
0.0204	131	131	100	Pass
0.0207	118	118	100	Pass
0.0209	111	111	100	Pass
0.0212	102	102	100	Pass
0.0214	98	98	100	Pass
0.0217	96	96	100	Pass
0.0219	93	93	100	Pass
0.0222	87	87	100	Pass
0.0224	83	83	100	Pass
0.0226	78	78	100	Pass
0.0229	75	75	100	Pass
0.0231	73	73	100	Pass
0.0234	69	69	100	Pass
0.0236	67	67	100	Pass
0.0239	62	62	100	Pass
0.0241	56	56	100	Pass
0.0244	52	52	100	Pass
0.0246	50	50	100	Pass
0.0249	47	47	100	Pass
0.0251	46	46	100	Pass
0.0253	43	43	100	Pass
0.0256	42	42	100	Pass
0.0258	41	41	100	Pass
0.0261	40	40	100	Pass
0.0263	37	37	100	Pass
0.0266	35	35	100	Pass
0.0268	31	31	100	Pass
0.0271	28	28	100	Pass
0.0273	26	26	100	Pass
0.0276	24	24	100	Pass
0.0278	23	23	100	Pass
0.0280	23	23	100	Pass
0.0283	23	23	100	Pass
0.0285	22	22	100	Pass
0.0288	19	19	100	Pass
0.0290	16	16	100	Pass
0.0293	16	16	100	Pass
0.0295	15	15	100	Pass
0.0298	14	14	100	Pass
0.0300	12	12	100	Pass

0.0303	12	12	100	Pass
0.0305	11	11	100	Pass
0.0307	10	10	100	Pass
0.0310	10	10	100	Pass
0.0312	10	10	100	Pass
0.0315	8	8	100	Pass
0.0317	7	7	100	Pass
0.0320	7	7	100	Pass
0.0322	5	5	100	Pass
0.0325	5	5	100	Pass
0.0327	5	5	100	Pass
0.0330	5	5	100	Pass
0.0332	4	4	100	Pass
0.0334	4	4	100	Pass
0.0337	4	4	100	Pass
0.0339	3	3	100	Pass
0.0342	3	3	100	Pass
0.0344	3	3	100	Pass
0.0347	2	2	100	Pass
0.0349	2	2	100	Pass
0.0352	2	2	100	Pass
0.0354	1	1	100	Pass
0.0357	1	1	100	Pass
0.0359	0	0	100	Pass
0.0361	0	0	0	Pass
0.0364	0	0	0	Pass
0.0366	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #9

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 9

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	1.5738	1.5738	100.0	Pass
Feb	1.2041	1.2041	100.0	Pass
Mar	1.0664	1.0664	100.0	Pass
Apr	0.5940	0.5940	100.0	Pass
May	0.3182	0.3182	100.0	Pass
Jun	0.2111	0.2111	100.0	Pass
Jul	0.1045	0.1045	100.0	Pass
Aug	0.1567	0.1567	100.0	Pass
Sep	0.3575	0.3575	100.0	Pass
Oct	0.8777	0.8777	100.0	Pass
Nov	1.4946	1.4946	100.0	Pass
Dec	1.5184	1.5184	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.0505	0.0505	100.0	Pass

2	0.0396	0.0396	100.0	Pass
3	0.0507	0.0507	100.0	Pass
4	0.0597	0.0597	100.0	Pass
5	0.0430	0.0430	100.0	Pass
6	0.0653	0.0653	100.0	Pass
7	0.0501	0.0501	100.0	Pass
8	0.0505	0.0505	100.0	Pass
9	0.0540	0.0540	100.0	Pass
10	0.0523	0.0523	100.0	Pass
11	0.0642	0.0642	100.0	Pass
12	0.0501	0.0501	100.0	Pass
13	0.0635	0.0635	100.0	Pass
14	0.0633	0.0633	100.0	Pass
15	0.0576	0.0576	100.0	Pass
16	0.0470	0.0470	100.0	Pass
17	0.0451	0.0451	100.0	Pass
18	0.0398	0.0398	100.0	Pass
19	0.0399	0.0399	100.0	Pass
20	0.0260	0.0260	100.0	Pass
21	0.0508	0.0508	100.0	Pass
22	0.0613	0.0613	100.0	Pass
23	0.0684	0.0684	100.0	Pass
24	0.0463	0.0463	100.0	Pass
25	0.0392	0.0392	100.0	Pass
26	0.0354	0.0354	100.0	Pass
27	0.0451	0.0451	100.0	Pass
28	0.0576	0.0576	100.0	Pass
29	0.0437	0.0437	100.0	Pass
30	0.0519	0.0519	100.0	Pass
31	0.0308	0.0308	100.0	Pass
Feb1	0.0354	0.0354	100.0	Pass
2	0.0324	0.0324	100.0	Pass
3	0.0292	0.0292	100.0	Pass
4	0.0271	0.0271	100.0	Pass
5	0.0504	0.0504	100.0	Pass
6	0.0250	0.0250	100.0	Pass
7	0.0369	0.0369	100.0	Pass
8	0.0279	0.0279	100.0	Pass
9	0.0338	0.0338	100.0	Pass
10	0.0451	0.0451	100.0	Pass
11	0.0593	0.0593	100.0	Pass
12	0.0461	0.0461	100.0	Pass
13	0.0497	0.0497	100.0	Pass
14	0.0699	0.0699	100.0	Pass
15	0.0504	0.0504	100.0	Pass
16	0.0665	0.0665	100.0	Pass
17	0.0583	0.0583	100.0	Pass
18	0.0456	0.0456	100.0	Pass
19	0.0398	0.0398	100.0	Pass
20	0.0384	0.0384	100.0	Pass
21	0.0315	0.0315	100.0	Pass
22	0.0464	0.0464	100.0	Pass
23	0.0440	0.0440	100.0	Pass
24	0.0485	0.0485	100.0	Pass
25	0.0432	0.0432	100.0	Pass
26	0.0426	0.0426	100.0	Pass
27	0.0372	0.0372	100.0	Pass

28	0.0472	0.0472	100.0	Pass
29	0.0359	0.0359	100.0	Pass
Mar1	0.0354	0.0354	100.0	Pass
2	0.0288	0.0288	100.0	Pass
3	0.0411	0.0411	100.0	Pass
4	0.0430	0.0430	100.0	Pass
5	0.0336	0.0336	100.0	Pass
6	0.0426	0.0426	100.0	Pass
7	0.0419	0.0419	100.0	Pass
8	0.0406	0.0406	100.0	Pass
9	0.0407	0.0407	100.0	Pass
10	0.0353	0.0353	100.0	Pass
11	0.0385	0.0385	100.0	Pass
12	0.0340	0.0340	100.0	Pass
13	0.0414	0.0414	100.0	Pass
14	0.0326	0.0326	100.0	Pass
15	0.0264	0.0264	100.0	Pass
16	0.0256	0.0256	100.0	Pass
17	0.0349	0.0349	100.0	Pass
18	0.0211	0.0211	100.0	Pass
19	0.0321	0.0321	100.0	Pass
20	0.0257	0.0257	100.0	Pass
21	0.0438	0.0438	100.0	Pass
22	0.0490	0.0490	100.0	Pass
23	0.0401	0.0401	100.0	Pass
24	0.0254	0.0254	100.0	Pass
25	0.0399	0.0399	100.0	Pass
26	0.0287	0.0287	100.0	Pass
27	0.0277	0.0277	100.0	Pass
28	0.0310	0.0310	100.0	Pass
29	0.0284	0.0284	100.0	Pass
30	0.0211	0.0211	100.0	Pass
31	0.0170	0.0170	100.0	Pass
Apr1	0.0183	0.0183	100.0	Pass
2	0.0207	0.0207	100.0	Pass
3	0.0287	0.0287	100.0	Pass
4	0.0258	0.0258	100.0	Pass
5	0.0277	0.0277	100.0	Pass
6	0.0146	0.0146	100.0	Pass
7	0.0249	0.0249	100.0	Pass
8	0.0249	0.0249	100.0	Pass
9	0.0221	0.0221	100.0	Pass
10	0.0218	0.0218	100.0	Pass
11	0.0303	0.0303	100.0	Pass
12	0.0257	0.0257	100.0	Pass
13	0.0269	0.0269	100.0	Pass
14	0.0228	0.0228	100.0	Pass
15	0.0245	0.0245	100.0	Pass
16	0.0133	0.0133	100.0	Pass
17	0.0188	0.0188	100.0	Pass
18	0.0217	0.0217	100.0	Pass
19	0.0114	0.0114	100.0	Pass
20	0.0112	0.0112	100.0	Pass
21	0.0193	0.0193	100.0	Pass
22	0.0159	0.0159	100.0	Pass
23	0.0138	0.0138	100.0	Pass
24	0.0111	0.0111	100.0	Pass

25	0.0136	0.0136	100.0	Pass
26	0.0229	0.0229	100.0	Pass
27	0.0175	0.0175	100.0	Pass
28	0.0183	0.0183	100.0	Pass
29	0.0086	0.0086	100.0	Pass
30	0.0119	0.0119	100.0	Pass
May1	0.0187	0.0187	100.0	Pass
2	0.0133	0.0133	100.0	Pass
3	0.0143	0.0143	100.0	Pass
4	0.0112	0.0112	100.0	Pass
5	0.0108	0.0108	100.0	Pass
6	0.0091	0.0091	100.0	Pass
7	0.0123	0.0123	100.0	Pass
8	0.0073	0.0073	100.0	Pass
9	0.0105	0.0105	100.0	Pass
10	0.0084	0.0084	100.0	Pass
11	0.0079	0.0079	100.0	Pass
12	0.0114	0.0114	100.0	Pass
13	0.0122	0.0122	100.0	Pass
14	0.0119	0.0119	100.0	Pass
15	0.0078	0.0078	100.0	Pass
16	0.0104	0.0104	100.0	Pass
17	0.0084	0.0084	100.0	Pass
18	0.0139	0.0139	100.0	Pass
19	0.0071	0.0071	100.0	Pass
20	0.0070	0.0070	100.0	Pass
21	0.0072	0.0072	100.0	Pass
22	0.0089	0.0089	100.0	Pass
23	0.0077	0.0077	100.0	Pass
24	0.0081	0.0081	100.0	Pass
25	0.0068	0.0068	100.0	Pass
26	0.0120	0.0120	100.0	Pass
27	0.0093	0.0093	100.0	Pass
28	0.0101	0.0101	100.0	Pass
29	0.0138	0.0138	100.0	Pass
30	0.0088	0.0088	100.0	Pass
31	0.0096	0.0096	100.0	Pass
Jun1	0.0071	0.0071	100.0	Pass
2	0.0121	0.0121	100.0	Pass
3	0.0114	0.0114	100.0	Pass
4	0.0081	0.0081	100.0	Pass
5	0.0138	0.0138	100.0	Pass
6	0.0049	0.0049	100.0	Pass
7	0.0079	0.0079	100.0	Pass
8	0.0112	0.0112	100.0	Pass
9	0.0083	0.0083	100.0	Pass
10	0.0080	0.0080	100.0	Pass
11	0.0057	0.0057	100.0	Pass
12	0.0071	0.0071	100.0	Pass
13	0.0114	0.0114	100.0	Pass
14	0.0045	0.0045	100.0	Pass
15	0.0093	0.0093	100.0	Pass
16	0.0039	0.0039	100.0	Pass
17	0.0057	0.0057	100.0	Pass
18	0.0038	0.0038	100.0	Pass
19	0.0046	0.0046	100.0	Pass
20	0.0051	0.0051	100.0	Pass

21	0.0051	0.0051	100.0	Pass
22	0.0027	0.0027	100.0	Pass
23	0.0145	0.0145	100.0	Pass
24	0.0036	0.0036	100.0	Pass
25	0.0063	0.0063	100.0	Pass
26	0.0037	0.0037	100.0	Pass
27	0.0034	0.0034	100.0	Pass
28	0.0035	0.0035	100.0	Pass
29	0.0047	0.0047	100.0	Pass
30	0.0102	0.0102	100.0	Pass
Jul11	0.0024	0.0024	100.0	Pass
2	0.0021	0.0021	100.0	Pass
3	0.0024	0.0024	100.0	Pass
4	0.0058	0.0058	100.0	Pass
5	0.0043	0.0043	100.0	Pass
6	0.0033	0.0033	100.0	Pass
7	0.0063	0.0063	100.0	Pass
8	0.0035	0.0035	100.0	Pass
9	0.0075	0.0075	100.0	Pass
10	0.0048	0.0048	100.0	Pass
11	0.0099	0.0099	100.0	Pass
12	0.0047	0.0047	100.0	Pass
13	0.0036	0.0036	100.0	Pass
14	0.0057	0.0057	100.0	Pass
15	0.0022	0.0022	100.0	Pass
16	0.0014	0.0014	100.0	Pass
17	0.0050	0.0050	100.0	Pass
18	0.0016	0.0016	100.0	Pass
19	0.0020	0.0020	100.0	Pass
20	0.0036	0.0036	100.0	Pass
21	0.0028	0.0028	100.0	Pass
22	0.0002	0.0002	100.0	Pass
23	0.0008	0.0008	100.0	Pass
24	0.0009	0.0009	100.0	Pass
25	0.0021	0.0021	100.0	Pass
26	0.0009	0.0009	100.0	Pass
27	0.0013	0.0013	100.0	Pass
28	0.0011	0.0011	100.0	Pass
29	0.0007	0.0007	100.0	Pass
30	0.0012	0.0012	100.0	Pass
31	0.0014	0.0014	100.0	Pass
Aug1	0.0059	0.0059	100.0	Pass
2	0.0020	0.0020	100.0	Pass
3	0.0007	0.0007	100.0	Pass
4	0.0007	0.0007	100.0	Pass
5	0.0066	0.0066	100.0	Pass
6	0.0044	0.0044	100.0	Pass
7	0.0015	0.0015	100.0	Pass
8	0.0016	0.0016	100.0	Pass
9	0.0001	0.0001	100.0	Pass
10	0.0008	0.0008	100.0	Pass
11	0.0043	0.0043	100.0	Pass
12	0.0036	0.0036	100.0	Pass
13	0.0046	0.0046	100.0	Pass
14	0.0027	0.0027	100.0	Pass
15	0.0024	0.0024	100.0	Pass
16	0.0021	0.0021	100.0	Pass

17	0.0042	0.0042	100.0	Pass
18	0.0081	0.0081	100.0	Pass
19	0.0022	0.0022	100.0	Pass
20	0.0063	0.0063	100.0	Pass
21	0.0057	0.0057	100.0	Pass
22	0.0112	0.0112	100.0	Pass
23	0.0104	0.0104	100.0	Pass
24	0.0089	0.0089	100.0	Pass
25	0.0035	0.0035	100.0	Pass
26	0.0108	0.0108	100.0	Pass
27	0.0109	0.0109	100.0	Pass
28	0.0109	0.0109	100.0	Pass
29	0.0068	0.0068	100.0	Pass
30	0.0112	0.0112	100.0	Pass
31	0.0177	0.0177	100.0	Pass
Sep1	0.0066	0.0066	100.0	Pass
2	0.0069	0.0069	100.0	Pass
3	0.0075	0.0075	100.0	Pass
4	0.0095	0.0095	100.0	Pass
5	0.0081	0.0081	100.0	Pass
6	0.0055	0.0055	100.0	Pass
7	0.0110	0.0110	100.0	Pass
8	0.0069	0.0069	100.0	Pass
9	0.0179	0.0179	100.0	Pass
10	0.0040	0.0040	100.0	Pass
11	0.0035	0.0035	100.0	Pass
12	0.0094	0.0094	100.0	Pass
13	0.0177	0.0177	100.0	Pass
14	0.0111	0.0111	100.0	Pass
15	0.0169	0.0169	100.0	Pass
16	0.0178	0.0178	100.0	Pass
17	0.0195	0.0195	100.0	Pass
18	0.0175	0.0175	100.0	Pass
19	0.0187	0.0187	100.0	Pass
20	0.0135	0.0135	100.0	Pass
21	0.0188	0.0188	100.0	Pass
22	0.0150	0.0150	100.0	Pass
23	0.0118	0.0118	100.0	Pass
24	0.0085	0.0085	100.0	Pass
25	0.0091	0.0091	100.0	Pass
26	0.0092	0.0092	100.0	Pass
27	0.0125	0.0125	100.0	Pass
28	0.0109	0.0109	100.0	Pass
29	0.0145	0.0145	100.0	Pass
30	0.0104	0.0104	100.0	Pass
Oct1	0.0072	0.0072	100.0	Pass
2	0.0188	0.0188	100.0	Pass
3	0.0167	0.0167	100.0	Pass
4	0.0204	0.0204	100.0	Pass
5	0.0216	0.0216	100.0	Pass
6	0.0239	0.0239	100.0	Pass
7	0.0305	0.0305	100.0	Pass
8	0.0247	0.0247	100.0	Pass
9	0.0191	0.0191	100.0	Pass
10	0.0155	0.0155	100.0	Pass
11	0.0300	0.0300	100.0	Pass
12	0.0199	0.0199	100.0	Pass

13	0.0281	0.0281	100.0	Pass
14	0.0157	0.0157	100.0	Pass
15	0.0187	0.0187	100.0	Pass
16	0.0253	0.0253	100.0	Pass
17	0.0231	0.0231	100.0	Pass
18	0.0372	0.0372	100.0	Pass
19	0.0457	0.0457	100.0	Pass
20	0.0393	0.0393	100.0	Pass
21	0.0476	0.0476	100.0	Pass
22	0.0275	0.0275	100.0	Pass
23	0.0463	0.0463	100.0	Pass
24	0.0404	0.0404	100.0	Pass
25	0.0360	0.0360	100.0	Pass
26	0.0439	0.0439	100.0	Pass
27	0.0370	0.0370	100.0	Pass
28	0.0345	0.0345	100.0	Pass
29	0.0290	0.0290	100.0	Pass
30	0.0436	0.0436	100.0	Pass
31	0.0364	0.0364	100.0	Pass
Nov1	0.0461	0.0461	100.0	Pass
2	0.0561	0.0561	100.0	Pass
3	0.0430	0.0430	100.0	Pass
4	0.0439	0.0439	100.0	Pass
5	0.0485	0.0485	100.0	Pass
6	0.0403	0.0403	100.0	Pass
7	0.0365	0.0365	100.0	Pass
8	0.0476	0.0476	100.0	Pass
9	0.0562	0.0562	100.0	Pass
10	0.0479	0.0479	100.0	Pass
11	0.0537	0.0537	100.0	Pass
12	0.0496	0.0496	100.0	Pass
13	0.0367	0.0367	100.0	Pass
14	0.0435	0.0435	100.0	Pass
15	0.0490	0.0490	100.0	Pass
16	0.0511	0.0511	100.0	Pass
17	0.0465	0.0465	100.0	Pass
18	0.0690	0.0690	100.0	Pass
19	0.0612	0.0612	100.0	Pass
20	0.0400	0.0400	100.0	Pass
21	0.0640	0.0640	100.0	Pass
22	0.0760	0.0760	100.0	Pass
23	0.0570	0.0570	100.0	Pass
24	0.0657	0.0657	100.0	Pass
25	0.0426	0.0426	100.0	Pass
26	0.0346	0.0346	100.0	Pass
27	0.0428	0.0428	100.0	Pass
28	0.0408	0.0408	100.0	Pass
29	0.0684	0.0684	100.0	Pass
30	0.0539	0.0539	100.0	Pass
Dec1	0.0598	0.0598	100.0	Pass
2	0.0577	0.0577	100.0	Pass
3	0.0365	0.0365	100.0	Pass
4	0.0410	0.0410	100.0	Pass
5	0.0350	0.0350	100.0	Pass
6	0.0305	0.0305	100.0	Pass
7	0.0445	0.0445	100.0	Pass
8	0.0560	0.0560	100.0	Pass

9	0.0551	0.0551	100.0	Pass
10	0.0594	0.0594	100.0	Pass
11	0.0430	0.0430	100.0	Pass
12	0.0469	0.0469	100.0	Pass
13	0.0705	0.0705	100.0	Pass
14	0.0479	0.0479	100.0	Pass
15	0.0637	0.0637	100.0	Pass
16	0.0421	0.0421	100.0	Pass
17	0.0509	0.0509	100.0	Pass
18	0.0416	0.0416	100.0	Pass
19	0.0494	0.0494	100.0	Pass
20	0.0481	0.0481	100.0	Pass
21	0.0530	0.0530	100.0	Pass
22	0.0522	0.0522	100.0	Pass
23	0.0568	0.0568	100.0	Pass
24	0.0631	0.0631	100.0	Pass
25	0.0542	0.0542	100.0	Pass
26	0.0493	0.0493	100.0	Pass
27	0.0328	0.0328	100.0	Pass
28	0.0531	0.0531	100.0	Pass
29	0.0343	0.0343	100.0	Pass
30	0.0362	0.0362	100.0	Pass
31	0.0619	0.0619	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #10
Total Pervious Area:3.37
Total Impervious Area:2.362

Mitigated Landuse Totals for POC #10
Total Pervious Area:3.37
Total Impervious Area:2.362

Flow Frequency Return Periods for Predeveloped. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.4071
5 year	3.010502
10 year	3.349394
25 year	3.724891
50 year	3.973609
100 year	4.200453

Flow Frequency Return Periods for Mitigated. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.4071
5 year	3.010502
10 year	3.349394
25 year	3.724891
50 year	3.973609

Stream Protection Duration
Annual Peaks for Predeveloped and Mitigated. POC #10

Year	Predeveloped	Mitigated
1956	2.815	2.815
1957	3.292	3.292
1958	2.336	2.336
1959	2.567	2.567
1960	2.760	2.760
1961	1.887	1.887
1962	3.758	3.758
1963	3.400	3.400
1964	2.582	2.582
1965	2.785	2.785
1966	2.791	2.791
1967	1.550	1.550
1968	2.572	2.572
1969	2.662	2.662
1970	2.048	2.048
1971	3.678	3.678
1972	3.301	3.301
1973	2.784	2.784
1974	2.824	2.824
1975	2.336	2.336
1976	2.939	2.939
1977	1.965	1.965
1978	3.621	3.621
1979	2.313	2.313
1980	2.000	2.000
1981	2.656	2.656
1982	2.931	2.931
1983	2.442	2.442
1984	2.263	2.263
1985	1.406	1.406
1986	2.777	2.777
1987	1.881	1.881
1988	2.855	2.855
1989	2.304	2.304
1990	3.368	3.368
1991	2.090	2.090
1992	1.455	1.455
1993	1.511	1.511
1994	2.237	2.237
1995	1.679	1.679
1996	2.178	2.178
1997	2.469	2.469
1998	1.482	1.482
1999	2.027	2.027
2000	1.877	1.877
2001	1.528	1.528
2002	2.046	2.046
2003	3.647	3.647
2004	3.174	3.174
2005	2.363	2.363
2006	2.588	2.588

2007	3.079	3.079
2008	1.354	1.354
2009	1.223	1.223

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #10

Rank	Predeveloped	Mitigated
1	3.7584	3.7584
2	3.6776	3.6776
3	3.6473	3.6473
4	3.6211	3.6211
5	3.3999	3.3999
6	3.3681	3.3681
7	3.3011	3.3011
8	3.2920	3.2920
9	3.1745	3.1745
10	3.0786	3.0786
11	2.9392	2.9392
12	2.9314	2.9314
13	2.8550	2.8550
14	2.8244	2.8244
15	2.8150	2.8150
16	2.7913	2.7913
17	2.7845	2.7845
18	2.7841	2.7841
19	2.7769	2.7769
20	2.7605	2.7605
21	2.6624	2.6624
22	2.6563	2.6563
23	2.5880	2.5880
24	2.5825	2.5825
25	2.5720	2.5720
26	2.5671	2.5671
27	2.4692	2.4692
28	2.4421	2.4421
29	2.3626	2.3626
30	2.3361	2.3361
31	2.3359	2.3359
32	2.3133	2.3133
33	2.3044	2.3044
34	2.2625	2.2625
35	2.2366	2.2366
36	2.1778	2.1778
37	2.0903	2.0903
38	2.0483	2.0483
39	2.0456	2.0456
40	2.0273	2.0273
41	1.9998	1.9998
42	1.9650	1.9650
43	1.8866	1.8866
44	1.8810	1.8810
45	1.8772	1.8772
46	1.6793	1.6793
47	1.5496	1.5496
48	1.5279	1.5279
49	1.5114	1.5114

50	1.4816	1.4816
51	1.4555	1.4555
52	1.4058	1.4058
53	1.3544	1.3544
54	1.2230	1.2230

Stream Protection Duration

POC #10

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
1.2036	796	796	100	Pass
1.2315	736	736	100	Pass
1.2595	683	683	100	Pass
1.2875	637	637	100	Pass
1.3155	591	591	100	Pass
1.3435	548	548	100	Pass
1.3714	501	501	100	Pass
1.3994	467	467	100	Pass
1.4274	424	424	100	Pass
1.4554	395	395	100	Pass
1.4834	367	367	100	Pass
1.5113	352	352	100	Pass
1.5393	332	332	100	Pass
1.5673	312	312	100	Pass
1.5953	282	282	100	Pass
1.6233	256	256	100	Pass
1.6512	238	238	100	Pass
1.6792	224	224	100	Pass
1.7072	210	210	100	Pass
1.7352	199	199	100	Pass
1.7632	186	186	100	Pass
1.7911	178	178	100	Pass
1.8191	173	173	100	Pass
1.8471	167	167	100	Pass
1.8751	155	155	100	Pass
1.9031	145	145	100	Pass
1.9310	136	136	100	Pass
1.9590	133	133	100	Pass
1.9870	122	122	100	Pass
2.0150	115	115	100	Pass
2.0430	109	109	100	Pass
2.0709	101	101	100	Pass
2.0989	99	99	100	Pass
2.1269	93	93	100	Pass
2.1549	88	88	100	Pass
2.1829	84	84	100	Pass
2.2108	81	81	100	Pass
2.2388	78	78	100	Pass
2.2668	74	74	100	Pass
2.2948	72	72	100	Pass
2.3228	68	68	100	Pass
2.3507	62	62	100	Pass
2.3787	60	60	100	Pass

2.4067	57	57	100	Pass
2.4347	55	55	100	Pass
2.4627	50	50	100	Pass
2.4906	48	48	100	Pass
2.5186	48	48	100	Pass
2.5466	48	48	100	Pass
2.5746	44	44	100	Pass
2.6026	42	42	100	Pass
2.6306	41	41	100	Pass
2.6585	37	37	100	Pass
2.6865	34	34	100	Pass
2.7145	33	33	100	Pass
2.7425	32	32	100	Pass
2.7705	31	31	100	Pass
2.7984	27	27	100	Pass
2.8264	22	22	100	Pass
2.8544	21	21	100	Pass
2.8824	20	20	100	Pass
2.9104	20	20	100	Pass
2.9383	18	18	100	Pass
2.9663	16	16	100	Pass
2.9943	14	14	100	Pass
3.0223	13	13	100	Pass
3.0503	12	12	100	Pass
3.0782	12	12	100	Pass
3.1062	11	11	100	Pass
3.1342	11	11	100	Pass
3.1622	11	11	100	Pass
3.1902	10	10	100	Pass
3.2181	10	10	100	Pass
3.2461	10	10	100	Pass
3.2741	10	10	100	Pass
3.3021	8	8	100	Pass
3.3301	8	8	100	Pass
3.3580	8	8	100	Pass
3.3860	7	7	100	Pass
3.4140	6	6	100	Pass
3.4420	6	6	100	Pass
3.4700	6	6	100	Pass
3.4979	5	5	100	Pass
3.5259	5	5	100	Pass
3.5539	4	4	100	Pass
3.5819	4	4	100	Pass
3.6099	4	4	100	Pass
3.6378	3	3	100	Pass
3.6658	2	2	100	Pass
3.6938	1	1	100	Pass
3.7218	1	1	100	Pass
3.7498	1	1	100	Pass
3.7777	0	0	100	Pass
3.8057	0	0	0	Pass
3.8337	0	0	0	Pass
3.8617	0	0	0	Pass
3.8897	0	0	0	Pass
3.9176	0	0	0	Pass
3.9456	0	0	0	Pass
3.9736	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #10

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 10

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	191.6131	191.6131	100.0	Pass
Feb	148.1245	148.1245	100.0	Pass
Mar	130.0990	130.0990	100.0	Pass
Apr	69.6104	69.6104	100.0	Pass
May	32.6302	32.6302	100.0	Pass
Jun	20.1430	20.1430	100.0	Pass
Jul	9.0849	9.0849	100.0	Pass
Aug	12.7624	12.7624	100.0	Pass
Sep	32.0426	32.0426	100.0	Pass
Oct	88.7630	88.7630	100.0	Pass
Nov	171.7820	171.7820	100.0	Pass
Dec	183.3291	183.3291	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	6.1465	6.1465	100.0	Pass
2	5.0326	5.0326	100.0	Pass
3	5.9792	5.9792	100.0	Pass
4	6.7851	6.7851	100.0	Pass
5	5.4872	5.4872	100.0	Pass
6	7.3225	7.3225	100.0	Pass
7	6.3068	6.3068	100.0	Pass
8	6.1571	6.1571	100.0	Pass
9	6.3216	6.3216	100.0	Pass
10	6.4210	6.4210	100.0	Pass
11	7.5660	7.5660	100.0	Pass
12	6.4899	6.4899	100.0	Pass
13	7.5374	7.5374	100.0	Pass
14	7.7117	7.7117	100.0	Pass
15	7.1900	7.1900	100.0	Pass
16	6.2586	6.2586	100.0	Pass
17	5.8861	5.8861	100.0	Pass
18	5.1830	5.1830	100.0	Pass
19	4.9570	4.9570	100.0	Pass
20	3.5597	3.5597	100.0	Pass
21	5.3187	5.3187	100.0	Pass
22	7.0525	7.0525	100.0	Pass
23	8.1139	8.1139	100.0	Pass
24	6.2545	6.2545	100.0	Pass
25	5.2060	5.2060	100.0	Pass
26	4.6724	4.6724	100.0	Pass
27	5.3139	5.3139	100.0	Pass
28	6.6833	6.6833	100.0	Pass

29	5.6342	5.6342	100.0	Pass
30	6.1263	6.1263	100.0	Pass
31	4.2655	4.2655	100.0	Pass
Feb1	4.4174	4.4174	100.0	Pass
2	3.9511	3.9511	100.0	Pass
3	3.6529	3.6529	100.0	Pass
4	3.3928	3.3928	100.0	Pass
5	5.5067	5.5067	100.0	Pass
6	3.5958	3.5958	100.0	Pass
7	4.3013	4.3013	100.0	Pass
8	3.4951	3.4951	100.0	Pass
9	3.8421	3.8421	100.0	Pass
10	5.0220	5.0220	100.0	Pass
11	6.8577	6.8577	100.0	Pass
12	5.8737	5.8737	100.0	Pass
13	5.9393	5.9393	100.0	Pass
14	7.8342	7.8342	100.0	Pass
15	6.5957	6.5957	100.0	Pass
16	7.8077	7.8077	100.0	Pass
17	7.2367	7.2367	100.0	Pass
18	6.2240	6.2240	100.0	Pass
19	5.2313	5.2313	100.0	Pass
20	4.9819	4.9819	100.0	Pass
21	4.0367	4.0367	100.0	Pass
22	5.4286	5.4286	100.0	Pass
23	5.3945	5.3945	100.0	Pass
24	5.8980	5.8980	100.0	Pass
25	5.4239	5.4239	100.0	Pass
26	5.4848	5.4848	100.0	Pass
27	4.8331	4.8331	100.0	Pass
28	5.8003	5.8003	100.0	Pass
29	4.4941	4.4941	100.0	Pass
Mar1	4.3356	4.3356	100.0	Pass
2	3.6957	3.6957	100.0	Pass
3	4.7366	4.7366	100.0	Pass
4	5.1473	5.1473	100.0	Pass
5	4.1832	4.1832	100.0	Pass
6	5.2060	5.2060	100.0	Pass
7	4.9259	4.9259	100.0	Pass
8	4.9591	4.9591	100.0	Pass
9	4.9609	4.9609	100.0	Pass
10	4.4860	4.4860	100.0	Pass
11	4.7127	4.7127	100.0	Pass
12	4.1883	4.1883	100.0	Pass
13	4.9371	4.9371	100.0	Pass
14	4.1283	4.1283	100.0	Pass
15	3.3834	3.3834	100.0	Pass
16	3.1367	3.1367	100.0	Pass
17	4.1511	4.1511	100.0	Pass
18	2.8135	2.8135	100.0	Pass
19	3.6692	3.6692	100.0	Pass
20	3.1269	3.1269	100.0	Pass
21	4.8110	4.8110	100.0	Pass
22	5.5637	5.5637	100.0	Pass
23	5.0742	5.0742	100.0	Pass
24	3.5874	3.5874	100.0	Pass
25	4.6124	4.6124	100.0	Pass

26	3.7532	3.7532	100.0	Pass
27	3.3340	3.3340	100.0	Pass
28	3.7951	3.7951	100.0	Pass
29	3.4514	3.4514	100.0	Pass
30	2.7481	2.7481	100.0	Pass
31	2.1818	2.1818	100.0	Pass
Apr1	2.1998	2.1998	100.0	Pass
2	2.3892	2.3892	100.0	Pass
3	3.0437	3.0437	100.0	Pass
4	3.0263	3.0263	100.0	Pass
5	3.3727	3.3727	100.0	Pass
6	2.0225	2.0225	100.0	Pass
7	2.7497	2.7497	100.0	Pass
8	2.9514	2.9514	100.0	Pass
9	2.5519	2.5519	100.0	Pass
10	2.6486	2.6486	100.0	Pass
11	3.2127	3.2127	100.0	Pass
12	3.0785	3.0785	100.0	Pass
13	3.0667	3.0667	100.0	Pass
14	2.7906	2.7906	100.0	Pass
15	2.9328	2.9328	100.0	Pass
16	1.8480	1.8480	100.0	Pass
17	2.1304	2.1304	100.0	Pass
18	2.4122	2.4122	100.0	Pass
19	1.5758	1.5758	100.0	Pass
20	1.3428	1.3428	100.0	Pass
21	2.0183	2.0183	100.0	Pass
22	1.7632	1.7632	100.0	Pass
23	1.6262	1.6262	100.0	Pass
24	1.3244	1.3244	100.0	Pass
25	1.4609	1.4609	100.0	Pass
26	2.4412	2.4412	100.0	Pass
27	2.0982	2.0982	100.0	Pass
28	2.1541	2.1541	100.0	Pass
29	1.2026	1.2026	100.0	Pass
30	1.2721	1.2721	100.0	Pass
May1	1.8394	1.8394	100.0	Pass
2	1.5356	1.5356	100.0	Pass
3	1.5190	1.5190	100.0	Pass
4	1.2956	1.2956	100.0	Pass
5	1.1973	1.1973	100.0	Pass
6	1.0004	1.0004	100.0	Pass
7	1.2524	1.2524	100.0	Pass
8	0.8641	0.8641	100.0	Pass
9	1.0554	1.0554	100.0	Pass
10	0.8509	0.8509	100.0	Pass
11	0.7914	0.7914	100.0	Pass
12	1.1477	1.1477	100.0	Pass
13	1.2122	1.2122	100.0	Pass
14	1.1702	1.1702	100.0	Pass
15	0.9071	0.9071	100.0	Pass
16	1.0124	1.0124	100.0	Pass
17	0.8758	0.8758	100.0	Pass
18	1.2702	1.2702	100.0	Pass
19	0.7959	0.7959	100.0	Pass
20	0.6876	0.6876	100.0	Pass
21	0.7042	0.7042	100.0	Pass

22	0.8092	0.8092	100.0	Pass
23	0.7708	0.7708	100.0	Pass
24	0.8170	0.8170	100.0	Pass
25	0.6880	0.6880	100.0	Pass
26	1.1128	1.1128	100.0	Pass
27	0.9357	0.9357	100.0	Pass
28	0.9641	0.9641	100.0	Pass
29	1.3395	1.3395	100.0	Pass
30	0.9399	0.9399	100.0	Pass
31	1.0273	1.0273	100.0	Pass
Jun1	0.8297	0.8297	100.0	Pass
2	1.0919	1.0919	100.0	Pass
3	1.0646	1.0646	100.0	Pass
4	0.8252	0.8252	100.0	Pass
5	1.2440	1.2440	100.0	Pass
6	0.5933	0.5933	100.0	Pass
7	0.8146	0.8146	100.0	Pass
8	1.0795	1.0795	100.0	Pass
9	0.8393	0.8393	100.0	Pass
10	0.7489	0.7489	100.0	Pass
11	0.5637	0.5637	100.0	Pass
12	0.6290	0.6290	100.0	Pass
13	1.0110	1.0110	100.0	Pass
14	0.5003	0.5003	100.0	Pass
15	0.8562	0.8562	100.0	Pass
16	0.4564	0.4564	100.0	Pass
17	0.5404	0.5404	100.0	Pass
18	0.4186	0.4186	100.0	Pass
19	0.4118	0.4118	100.0	Pass
20	0.4270	0.4270	100.0	Pass
21	0.4690	0.4690	100.0	Pass
22	0.2821	0.2821	100.0	Pass
23	1.1410	1.1410	100.0	Pass
24	0.4506	0.4506	100.0	Pass
25	0.5631	0.5631	100.0	Pass
26	0.3392	0.3392	100.0	Pass
27	0.2832	0.2832	100.0	Pass
28	0.2836	0.2836	100.0	Pass
29	0.3615	0.3615	100.0	Pass
30	0.8081	0.8081	100.0	Pass
Jul1	0.2465	0.2465	100.0	Pass
2	0.1889	0.1889	100.0	Pass
3	0.1894	0.1894	100.0	Pass
4	0.4236	0.4236	100.0	Pass
5	0.3310	0.3310	100.0	Pass
6	0.2526	0.2526	100.0	Pass
7	0.5125	0.5125	100.0	Pass
8	0.3305	0.3305	100.0	Pass
9	0.6061	0.6061	100.0	Pass
10	0.4206	0.4206	100.0	Pass
11	0.9032	0.9032	100.0	Pass
12	0.6127	0.6127	100.0	Pass
13	0.4046	0.4046	100.0	Pass
14	0.4962	0.4962	100.0	Pass
15	0.2171	0.2171	100.0	Pass
16	0.1336	0.1336	100.0	Pass
17	0.4054	0.4054	100.0	Pass

18	0.1779	0.1779	100.0	Pass
19	0.1821	0.1821	100.0	Pass
20	0.2832	0.2832	100.0	Pass
21	0.2416	0.2416	100.0	Pass
22	0.0410	0.0410	100.0	Pass
23	0.0698	0.0698	100.0	Pass
24	0.0730	0.0730	100.0	Pass
25	0.1528	0.1528	100.0	Pass
26	0.0638	0.0638	100.0	Pass
27	0.0953	0.0953	100.0	Pass
28	0.0806	0.0806	100.0	Pass
29	0.0538	0.0538	100.0	Pass
30	0.0883	0.0883	100.0	Pass
31	0.1028	0.1028	100.0	Pass
Aug1	0.4227	0.4227	100.0	Pass
2	0.1676	0.1676	100.0	Pass
3	0.0738	0.0738	100.0	Pass
4	0.0662	0.0662	100.0	Pass
5	0.4926	0.4926	100.0	Pass
6	0.3502	0.3502	100.0	Pass
7	0.1408	0.1408	100.0	Pass
8	0.1297	0.1297	100.0	Pass
9	0.0162	0.0162	100.0	Pass
10	0.0652	0.0652	100.0	Pass
11	0.3064	0.3064	100.0	Pass
12	0.2675	0.2675	100.0	Pass
13	0.3407	0.3407	100.0	Pass
14	0.2283	0.2283	100.0	Pass
15	0.2164	0.2164	100.0	Pass
16	0.1744	0.1744	100.0	Pass
17	0.3080	0.3080	100.0	Pass
18	0.5928	0.5928	100.0	Pass
19	0.2067	0.2067	100.0	Pass
20	0.4706	0.4706	100.0	Pass
21	0.4548	0.4548	100.0	Pass
22	0.8665	0.8665	100.0	Pass
23	0.8587	0.8587	100.0	Pass
24	0.8235	0.8235	100.0	Pass
25	0.3805	0.3805	100.0	Pass
26	0.8586	0.8586	100.0	Pass
27	0.9111	0.9111	100.0	Pass
28	0.9536	0.9536	100.0	Pass
29	0.6227	0.6227	100.0	Pass
30	0.8940	0.8940	100.0	Pass
31	1.4499	1.4499	100.0	Pass
Sep1	0.7157	0.7157	100.0	Pass
2	0.6590	0.6590	100.0	Pass
3	0.6715	0.6715	100.0	Pass
4	0.7890	0.7890	100.0	Pass
5	0.6884	0.6884	100.0	Pass
6	0.4896	0.4896	100.0	Pass
7	0.8585	0.8585	100.0	Pass
8	0.6131	0.6131	100.0	Pass
9	1.3896	1.3896	100.0	Pass
10	0.4073	0.4073	100.0	Pass
11	0.3127	0.3127	100.0	Pass
12	0.7381	0.7381	100.0	Pass

13	1.4160	1.4160	100.0	Pass
14	0.9941	0.9941	100.0	Pass
15	1.4123	1.4123	100.0	Pass
16	1.6823	1.6823	100.0	Pass
17	1.7321	1.7321	100.0	Pass
18	1.5511	1.5511	100.0	Pass
19	1.7286	1.7286	100.0	Pass
20	1.3563	1.3563	100.0	Pass
21	1.8624	1.8624	100.0	Pass
22	1.5524	1.5524	100.0	Pass
23	1.1722	1.1722	100.0	Pass
24	0.8333	0.8333	100.0	Pass
25	0.8084	0.8084	100.0	Pass
26	0.8158	0.8158	100.0	Pass
27	1.1431	1.1431	100.0	Pass
28	0.9664	0.9664	100.0	Pass
29	1.2374	1.2374	100.0	Pass
30	0.9633	0.9633	100.0	Pass
Oct1	0.7124	0.7124	100.0	Pass
2	1.5278	1.5278	100.0	Pass
3	1.4373	1.4373	100.0	Pass
4	1.8266	1.8266	100.0	Pass
5	2.0067	2.0067	100.0	Pass
6	2.1445	2.1445	100.0	Pass
7	2.7989	2.7989	100.0	Pass
8	2.4276	2.4276	100.0	Pass
9	1.9277	1.9277	100.0	Pass
10	1.6129	1.6129	100.0	Pass
11	2.6505	2.6505	100.0	Pass
12	1.9676	1.9676	100.0	Pass
13	2.4944	2.4944	100.0	Pass
14	1.6856	1.6856	100.0	Pass
15	1.8102	1.8102	100.0	Pass
16	2.5113	2.5113	100.0	Pass
17	2.3199	2.3199	100.0	Pass
18	3.5985	3.5985	100.0	Pass
19	4.6309	4.6309	100.0	Pass
20	4.0540	4.0540	100.0	Pass
21	4.8577	4.8577	100.0	Pass
22	3.2089	3.2089	100.0	Pass
23	4.7692	4.7692	100.0	Pass
24	4.3637	4.3637	100.0	Pass
25	3.9525	3.9525	100.0	Pass
26	4.6363	4.6363	100.0	Pass
27	4.1812	4.1812	100.0	Pass
28	3.8829	3.8829	100.0	Pass
29	3.3704	3.3704	100.0	Pass
30	4.4424	4.4424	100.0	Pass
31	4.1266	4.1266	100.0	Pass
Nov1	5.0785	5.0785	100.0	Pass
2	5.8567	5.8567	100.0	Pass
3	5.0920	5.0920	100.0	Pass
4	4.8116	4.8116	100.0	Pass
5	5.3600	5.3600	100.0	Pass
6	4.7580	4.7580	100.0	Pass
7	4.2613	4.2613	100.0	Pass
8	5.1230	5.1230	100.0	Pass

9	6.1743	6.1743	100.0	Pass
10	5.5003	5.5003	100.0	Pass
11	6.0098	6.0098	100.0	Pass
12	5.5662	5.5662	100.0	Pass
13	4.6393	4.6393	100.0	Pass
14	4.9437	4.9437	100.0	Pass
15	5.4557	5.4557	100.0	Pass
16	5.7554	5.7554	100.0	Pass
17	5.4334	5.4334	100.0	Pass
18	7.5722	7.5722	100.0	Pass
19	7.2349	7.2349	100.0	Pass
20	5.1868	5.1868	100.0	Pass
21	7.1710	7.1710	100.0	Pass
22	8.3384	8.3384	100.0	Pass
23	7.1046	7.1046	100.0	Pass
24	7.7245	7.7245	100.0	Pass
25	5.7391	5.7391	100.0	Pass
26	4.5916	4.5916	100.0	Pass
27	4.9390	4.9390	100.0	Pass
28	4.8018	4.8018	100.0	Pass
29	7.4410	7.4410	100.0	Pass
30	6.6291	6.6291	100.0	Pass
Dec1	7.0161	7.0161	100.0	Pass
2	7.0521	7.0521	100.0	Pass
3	4.8981	4.8981	100.0	Pass
4	4.8979	4.8979	100.0	Pass
5	4.4368	4.4368	100.0	Pass
6	3.7049	3.7049	100.0	Pass
7	4.9034	4.9034	100.0	Pass
8	6.2249	6.2249	100.0	Pass
9	6.5487	6.5487	100.0	Pass
10	7.1285	7.1285	100.0	Pass
11	5.4707	5.4707	100.0	Pass
12	5.6219	5.6219	100.0	Pass
13	7.7977	7.7977	100.0	Pass
14	6.2696	6.2696	100.0	Pass
15	7.2823	7.2823	100.0	Pass
16	5.5800	5.5800	100.0	Pass
17	6.0503	6.0503	100.0	Pass
18	5.1508	5.1508	100.0	Pass
19	5.6460	5.6460	100.0	Pass
20	5.8394	5.8394	100.0	Pass
21	6.3858	6.3858	100.0	Pass
22	6.3354	6.3354	100.0	Pass
23	6.7496	6.7496	100.0	Pass
24	7.2427	7.2427	100.0	Pass
25	6.8527	6.8527	100.0	Pass
26	6.2342	6.2342	100.0	Pass
27	4.3771	4.3771	100.0	Pass
28	6.0489	6.0489	100.0	Pass
29	4.6071	4.6071	100.0	Pass
30	4.3555	4.3555	100.0	Pass
31	6.9496	6.9496	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #11

Total Pervious Area:0.312

Total Impervious Area:0.468

Mitigated Landuse Totals for POC #11

Total Pervious Area:0.312

Total Impervious Area:0.468

Flow Frequency Return Periods for Predeveloped. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.41018
5 year	0.501987
10 year	0.552743
25 year	0.608404
50 year	0.64497
100 year	0.678126

Flow Frequency Return Periods for Mitigated. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.41018
5 year	0.501987
10 year	0.552743
25 year	0.608404
50 year	0.64497
100 year	0.678126

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #11

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.463	0.463
1957	0.541	0.541
1958	0.399	0.399
1959	0.437	0.437
1960	0.459	0.459
1961	0.319	0.319
1962	0.606	0.606
1963	0.545	0.545
1964	0.448	0.448
1965	0.460	0.460
1966	0.465	0.465
1967	0.270	0.270
1968	0.434	0.434
1969	0.427	0.427
1970	0.360	0.360
1971	0.614	0.614
1972	0.529	0.529
1973	0.456	0.456
1974	0.468	0.468
1975	0.398	0.398
1976	0.494	0.494

1977	0.342	0.342
1978	0.604	0.604
1979	0.386	0.386
1980	0.346	0.346
1981	0.439	0.439
1982	0.506	0.506
1983	0.401	0.401
1984	0.387	0.387
1985	0.256	0.256
1986	0.461	0.461
1987	0.317	0.317
1988	0.493	0.493
1989	0.398	0.398
1990	0.552	0.552
1991	0.329	0.329
1992	0.250	0.250
1993	0.275	0.275
1994	0.385	0.385
1995	0.323	0.323
1996	0.404	0.404
1997	0.438	0.438
1998	0.264	0.264
1999	0.347	0.347
2000	0.319	0.319
2001	0.286	0.286
2002	0.400	0.400
2003	0.597	0.597
2004	0.540	0.540
2005	0.415	0.415
2006	0.429	0.429
2007	0.515	0.515
2008	0.240	0.240
2009	0.222	0.222

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	0.6136	0.6136
2	0.6057	0.6057
3	0.6043	0.6043
4	0.5968	0.5968
5	0.5519	0.5519
6	0.5445	0.5445
7	0.5414	0.5414
8	0.5399	0.5399
9	0.5293	0.5293
10	0.5152	0.5152
11	0.5055	0.5055
12	0.4943	0.4943
13	0.4925	0.4925
14	0.4678	0.4678
15	0.4652	0.4652
16	0.4629	0.4629
17	0.4610	0.4610
18	0.4596	0.4596
19	0.4594	0.4594

20	0.4563	0.4563
21	0.4482	0.4482
22	0.4394	0.4394
23	0.4378	0.4378
24	0.4370	0.4370
25	0.4341	0.4341
26	0.4294	0.4294
27	0.4265	0.4265
28	0.4147	0.4147
29	0.4041	0.4041
30	0.4012	0.4012
31	0.4005	0.4005
32	0.3992	0.3992
33	0.3983	0.3983
34	0.3981	0.3981
35	0.3871	0.3871
36	0.3857	0.3857
37	0.3851	0.3851
38	0.3599	0.3599
39	0.3468	0.3468
40	0.3463	0.3463
41	0.3424	0.3424
42	0.3287	0.3287
43	0.3231	0.3231
44	0.3194	0.3194
45	0.3188	0.3188
46	0.3168	0.3168
47	0.2863	0.2863
48	0.2752	0.2752
49	0.2699	0.2699
50	0.2637	0.2637
51	0.2557	0.2557
52	0.2499	0.2499
53	0.2401	0.2401
54	0.2221	0.2221

Stream Protection Duration

POC #11

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2051	857	857	100	Pass
0.2095	797	797	100	Pass
0.2140	752	752	100	Pass
0.2184	702	702	100	Pass
0.2229	653	653	100	Pass
0.2273	597	597	100	Pass
0.2317	569	569	100	Pass
0.2362	528	528	100	Pass
0.2406	494	494	100	Pass
0.2451	448	448	100	Pass
0.2495	411	411	100	Pass
0.2540	392	392	100	Pass
0.2584	373	373	100	Pass

0.2629	349	349	100	Pass
0.2673	326	326	100	Pass
0.2717	297	297	100	Pass
0.2762	275	275	100	Pass
0.2806	256	256	100	Pass
0.2851	240	240	100	Pass
0.2895	224	224	100	Pass
0.2940	216	216	100	Pass
0.2984	206	206	100	Pass
0.3028	194	194	100	Pass
0.3073	183	183	100	Pass
0.3117	175	175	100	Pass
0.3162	165	165	100	Pass
0.3206	151	151	100	Pass
0.3251	144	144	100	Pass
0.3295	140	140	100	Pass
0.3339	135	135	100	Pass
0.3384	129	129	100	Pass
0.3428	122	122	100	Pass
0.3473	112	112	100	Pass
0.3517	109	109	100	Pass
0.3562	99	99	100	Pass
0.3606	96	96	100	Pass
0.3650	93	93	100	Pass
0.3695	90	90	100	Pass
0.3739	87	87	100	Pass
0.3784	81	81	100	Pass
0.3828	78	78	100	Pass
0.3873	73	73	100	Pass
0.3917	72	72	100	Pass
0.3961	66	66	100	Pass
0.4006	63	63	100	Pass
0.4050	55	55	100	Pass
0.4095	53	53	100	Pass
0.4139	49	49	100	Pass
0.4184	48	48	100	Pass
0.4228	48	48	100	Pass
0.4273	46	46	100	Pass
0.4317	44	44	100	Pass
0.4361	42	42	100	Pass
0.4406	39	39	100	Pass
0.4450	37	37	100	Pass
0.4495	34	34	100	Pass
0.4539	34	34	100	Pass
0.4584	32	32	100	Pass
0.4628	28	28	100	Pass
0.4672	26	26	100	Pass
0.4717	24	24	100	Pass
0.4761	24	24	100	Pass
0.4806	23	23	100	Pass
0.4850	21	21	100	Pass
0.4895	19	19	100	Pass
0.4939	18	18	100	Pass
0.4983	15	15	100	Pass
0.5028	15	15	100	Pass
0.5072	14	14	100	Pass
0.5117	13	13	100	Pass

0.5161	12	12	100	Pass
0.5206	11	11	100	Pass
0.5250	11	11	100	Pass
0.5294	11	11	100	Pass
0.5339	10	10	100	Pass
0.5383	10	10	100	Pass
0.5428	8	8	100	Pass
0.5472	7	7	100	Pass
0.5517	7	7	100	Pass
0.5561	6	6	100	Pass
0.5605	6	6	100	Pass
0.5650	6	6	100	Pass
0.5694	6	6	100	Pass
0.5739	5	5	100	Pass
0.5783	5	5	100	Pass
0.5828	4	4	100	Pass
0.5872	4	4	100	Pass
0.5917	4	4	100	Pass
0.5961	4	4	100	Pass
0.6005	3	3	100	Pass
0.6050	3	3	100	Pass
0.6094	1	1	100	Pass
0.6139	1	1	100	Pass
0.6183	0	0	100	Pass
0.6228	0	0	0	Pass
0.6272	0	0	0	Pass
0.6316	0	0	0	Pass
0.6361	0	0	0	Pass
0.6405	0	0	0	Pass
0.6450	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #11

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 11

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	28.3721	28.3721	100.0	Pass
Feb	21.8163	21.8163	100.0	Pass
Mar	19.2509	19.2509	100.0	Pass
Apr	10.5188	10.5188	100.0	Pass
May	5.3103	5.3103	100.0	Pass
Jun	3.4203	3.4203	100.0	Pass
Jul	1.6366	1.6366	100.0	Pass
Aug	2.4002	2.4002	100.0	Pass
Sep	5.7476	5.7476	100.0	Pass
Oct	14.7898	14.7898	100.0	Pass
Nov	26.4487	26.4487	100.0	Pass
Dec	27.3758	27.3758	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.9054	0.9054	100.0	Pass
2	0.7333	0.7333	100.0	Pass
3	0.8996	0.8996	100.0	Pass
4	1.0350	1.0350	100.0	Pass
5	0.7982	0.7982	100.0	Pass
6	1.1264	1.1264	100.0	Pass
7	0.9233	0.9233	100.0	Pass
8	0.9151	0.9151	100.0	Pass
9	0.9565	0.9565	100.0	Pass
10	0.9480	0.9480	100.0	Pass
11	1.1374	1.1374	100.0	Pass
12	0.9296	0.9296	100.0	Pass
13	1.1277	1.1277	100.0	Pass
14	1.1382	1.1382	100.0	Pass
15	1.0515	1.0515	100.0	Pass
16	0.8923	0.8923	100.0	Pass
17	0.8456	0.8456	100.0	Pass
18	0.7479	0.7479	100.0	Pass
19	0.7302	0.7302	100.0	Pass
20	0.5082	0.5082	100.0	Pass
21	0.8495	0.8495	100.0	Pass
22	1.0645	1.0645	100.0	Pass
23	1.2093	1.2093	100.0	Pass
24	0.8779	0.8779	100.0	Pass
25	0.7461	0.7461	100.0	Pass
26	0.6728	0.6728	100.0	Pass
27	0.8018	0.8018	100.0	Pass
28	1.0078	1.0078	100.0	Pass
29	0.8089	0.8089	100.0	Pass
30	0.9226	0.9226	100.0	Pass
31	0.6010	0.6010	100.0	Pass
Feb1	0.6513	0.6513	100.0	Pass
2	0.5877	0.5877	100.0	Pass
3	0.5378	0.5378	100.0	Pass
4	0.4984	0.4984	100.0	Pass
5	0.8556	0.8556	100.0	Pass
6	0.4927	0.4927	100.0	Pass
7	0.6499	0.6499	100.0	Pass
8	0.5148	0.5148	100.0	Pass
9	0.5898	0.5898	100.0	Pass
10	0.7718	0.7718	100.0	Pass
11	1.0293	1.0293	100.0	Pass
12	0.8488	0.8488	100.0	Pass
13	0.8865	0.8865	100.0	Pass
14	1.2000	1.2000	100.0	Pass
15	0.9419	0.9419	100.0	Pass
16	1.1719	1.1719	100.0	Pass
17	1.0616	1.0616	100.0	Pass
18	0.8757	0.8757	100.0	Pass
19	0.7554	0.7554	100.0	Pass
20	0.7187	0.7187	100.0	Pass
21	0.5895	0.5895	100.0	Pass
22	0.8185	0.8185	100.0	Pass
23	0.7912	0.7912	100.0	Pass
24	0.8680	0.8680	100.0	Pass

25	0.7920	0.7920	100.0	Pass
26	0.7855	0.7855	100.0	Pass
27	0.6942	0.6942	100.0	Pass
28	0.8588	0.8588	100.0	Pass
29	0.6595	0.6595	100.0	Pass
Mar1	0.6432	0.6432	100.0	Pass
2	0.5377	0.5377	100.0	Pass
3	0.7197	0.7197	100.0	Pass
4	0.7612	0.7612	100.0	Pass
5	0.6146	0.6146	100.0	Pass
6	0.7651	0.7651	100.0	Pass
7	0.7403	0.7403	100.0	Pass
8	0.7309	0.7309	100.0	Pass
9	0.7331	0.7331	100.0	Pass
10	0.6514	0.6514	100.0	Pass
11	0.6952	0.6952	100.0	Pass
12	0.6190	0.6190	100.0	Pass
13	0.7361	0.7361	100.0	Pass
14	0.6029	0.6029	100.0	Pass
15	0.4952	0.4952	100.0	Pass
16	0.4674	0.4674	100.0	Pass
17	0.6200	0.6200	100.0	Pass
18	0.4017	0.4017	100.0	Pass
19	0.5600	0.5600	100.0	Pass
20	0.4646	0.4646	100.0	Pass
21	0.7439	0.7439	100.0	Pass
22	0.8428	0.8428	100.0	Pass
23	0.7332	0.7332	100.0	Pass
24	0.5012	0.5012	100.0	Pass
25	0.7000	0.7000	100.0	Pass
26	0.5391	0.5391	100.0	Pass
27	0.5008	0.5008	100.0	Pass
28	0.5611	0.5611	100.0	Pass
29	0.5131	0.5131	100.0	Pass
30	0.3982	0.3982	100.0	Pass
31	0.3206	0.3206	100.0	Pass
Apr1	0.3312	0.3312	100.0	Pass
2	0.3647	0.3647	100.0	Pass
3	0.4812	0.4812	100.0	Pass
4	0.4536	0.4536	100.0	Pass
5	0.4970	0.4970	100.0	Pass
6	0.2863	0.2863	100.0	Pass
7	0.4263	0.4263	100.0	Pass
8	0.4408	0.4408	100.0	Pass
9	0.3885	0.3885	100.0	Pass
10	0.3931	0.3931	100.0	Pass
11	0.5087	0.5087	100.0	Pass
12	0.4570	0.4570	100.0	Pass
13	0.4697	0.4697	100.0	Pass
14	0.4116	0.4116	100.0	Pass
15	0.4387	0.4387	100.0	Pass
16	0.2623	0.2623	100.0	Pass
17	0.3287	0.3287	100.0	Pass
18	0.3728	0.3728	100.0	Pass
19	0.2228	0.2228	100.0	Pass
20	0.2038	0.2038	100.0	Pass
21	0.3209	0.3209	100.0	Pass

22	0.2743	0.2743	100.0	Pass
23	0.2462	0.2462	100.0	Pass
24	0.2007	0.2007	100.0	Pass
25	0.2307	0.2307	100.0	Pass
26	0.3851	0.3851	100.0	Pass
27	0.3094	0.3094	100.0	Pass
28	0.3226	0.3226	100.0	Pass
29	0.1708	0.1708	100.0	Pass
30	0.2038	0.2038	100.0	Pass
May1	0.3030	0.3030	100.0	Pass
2	0.2340	0.2340	100.0	Pass
3	0.2425	0.2425	100.0	Pass
4	0.1983	0.1983	100.0	Pass
5	0.1875	0.1875	100.0	Pass
6	0.1578	0.1578	100.0	Pass
7	0.2033	0.2033	100.0	Pass
8	0.1318	0.1318	100.0	Pass
9	0.1734	0.1734	100.0	Pass
10	0.1406	0.1406	100.0	Pass
11	0.1311	0.1311	100.0	Pass
12	0.1852	0.1852	100.0	Pass
13	0.1990	0.1990	100.0	Pass
14	0.1946	0.1946	100.0	Pass
15	0.1395	0.1395	100.0	Pass
16	0.1691	0.1691	100.0	Pass
17	0.1426	0.1426	100.0	Pass
18	0.2183	0.2183	100.0	Pass
19	0.1240	0.1240	100.0	Pass
20	0.1157	0.1157	100.0	Pass
21	0.1182	0.1182	100.0	Pass
22	0.1408	0.1408	100.0	Pass
23	0.1274	0.1274	100.0	Pass
24	0.1341	0.1341	100.0	Pass
25	0.1140	0.1140	100.0	Pass
26	0.1900	0.1900	100.0	Pass
27	0.1538	0.1538	100.0	Pass
28	0.1639	0.1639	100.0	Pass
29	0.2233	0.2233	100.0	Pass
30	0.1502	0.1502	100.0	Pass
31	0.1629	0.1629	100.0	Pass
Jun1	0.1269	0.1269	100.0	Pass
2	0.1904	0.1904	100.0	Pass
3	0.1818	0.1818	100.0	Pass
4	0.1350	0.1350	100.0	Pass
5	0.2171	0.2171	100.0	Pass
6	0.0922	0.0922	100.0	Pass
7	0.1316	0.1316	100.0	Pass
8	0.1804	0.1804	100.0	Pass
9	0.1383	0.1383	100.0	Pass
10	0.1284	0.1284	100.0	Pass
11	0.0953	0.0953	100.0	Pass
12	0.1112	0.1112	100.0	Pass
13	0.1769	0.1769	100.0	Pass
14	0.0797	0.0797	100.0	Pass
15	0.1471	0.1471	100.0	Pass
16	0.0710	0.0710	100.0	Pass
17	0.0932	0.0932	100.0	Pass

18	0.0673	0.0673	100.0	Pass
19	0.0735	0.0735	100.0	Pass
20	0.0782	0.0782	100.0	Pass
21	0.0804	0.0804	100.0	Pass
22	0.0461	0.0461	100.0	Pass
23	0.2133	0.2133	100.0	Pass
24	0.0682	0.0682	100.0	Pass
25	0.0995	0.0995	100.0	Pass
26	0.0601	0.0601	100.0	Pass
27	0.0524	0.0524	100.0	Pass
28	0.0533	0.0533	100.0	Pass
29	0.0691	0.0691	100.0	Pass
30	0.1522	0.1522	100.0	Pass
Jul1	0.0429	0.0429	100.0	Pass
2	0.0345	0.0345	100.0	Pass
3	0.0357	0.0357	100.0	Pass
4	0.0827	0.0827	100.0	Pass
5	0.0630	0.0630	100.0	Pass
6	0.0481	0.0481	100.0	Pass
7	0.0948	0.0948	100.0	Pass
8	0.0576	0.0576	100.0	Pass
9	0.1122	0.1122	100.0	Pass
10	0.0760	0.0760	100.0	Pass
11	0.1566	0.1566	100.0	Pass
12	0.0909	0.0909	100.0	Pass
13	0.0645	0.0645	100.0	Pass
14	0.0902	0.0902	100.0	Pass
15	0.0384	0.0384	100.0	Pass
16	0.0239	0.0239	100.0	Pass
17	0.0751	0.0751	100.0	Pass
18	0.0290	0.0290	100.0	Pass
19	0.0325	0.0325	100.0	Pass
20	0.0537	0.0537	100.0	Pass
21	0.0448	0.0448	100.0	Pass
22	0.0063	0.0063	100.0	Pass
23	0.0129	0.0129	100.0	Pass
24	0.0140	0.0140	100.0	Pass
25	0.0300	0.0300	100.0	Pass
26	0.0124	0.0124	100.0	Pass
27	0.0187	0.0187	100.0	Pass
28	0.0156	0.0156	100.0	Pass
29	0.0103	0.0103	100.0	Pass
30	0.0173	0.0173	100.0	Pass
31	0.0201	0.0201	100.0	Pass
Aug1	0.0827	0.0827	100.0	Pass
2	0.0311	0.0311	100.0	Pass
3	0.0130	0.0130	100.0	Pass
4	0.0122	0.0122	100.0	Pass
5	0.0955	0.0955	100.0	Pass
6	0.0664	0.0664	100.0	Pass
7	0.0256	0.0256	100.0	Pass
8	0.0245	0.0245	100.0	Pass
9	0.0026	0.0026	100.0	Pass
10	0.0125	0.0125	100.0	Pass
11	0.0601	0.0601	100.0	Pass
12	0.0520	0.0520	100.0	Pass
13	0.0659	0.0659	100.0	Pass

14	0.0427	0.0427	100.0	Pass
15	0.0396	0.0396	100.0	Pass
16	0.0326	0.0326	100.0	Pass
17	0.0600	0.0600	100.0	Pass
18	0.1154	0.1154	100.0	Pass
19	0.0364	0.0364	100.0	Pass
20	0.0908	0.0908	100.0	Pass
21	0.0864	0.0864	100.0	Pass
22	0.1661	0.1661	100.0	Pass
23	0.1616	0.1616	100.0	Pass
24	0.1497	0.1497	100.0	Pass
25	0.0663	0.0663	100.0	Pass
26	0.1629	0.1629	100.0	Pass
27	0.1701	0.1701	100.0	Pass
28	0.1746	0.1746	100.0	Pass
29	0.1119	0.1119	100.0	Pass
30	0.1690	0.1690	100.0	Pass
31	0.2726	0.2726	100.0	Pass
Sep1	0.1222	0.1222	100.0	Pass
2	0.1171	0.1171	100.0	Pass
3	0.1218	0.1218	100.0	Pass
4	0.1475	0.1475	100.0	Pass
5	0.1282	0.1282	100.0	Pass
6	0.0901	0.0901	100.0	Pass
7	0.1632	0.1632	100.0	Pass
8	0.1100	0.1100	100.0	Pass
9	0.2639	0.2639	100.0	Pass
10	0.0718	0.0718	100.0	Pass
11	0.0571	0.0571	100.0	Pass
12	0.1397	0.1397	100.0	Pass
13	0.2647	0.2647	100.0	Pass
14	0.1787	0.1787	100.0	Pass
15	0.2620	0.2620	100.0	Pass
16	0.2905	0.2905	100.0	Pass
17	0.3089	0.3089	100.0	Pass
18	0.2800	0.2800	100.0	Pass
19	0.3053	0.3053	100.0	Pass
20	0.2346	0.2346	100.0	Pass
21	0.3162	0.3162	100.0	Pass
22	0.2569	0.2569	100.0	Pass
23	0.2016	0.2016	100.0	Pass
24	0.1450	0.1450	100.0	Pass
25	0.1464	0.1464	100.0	Pass
26	0.1477	0.1477	100.0	Pass
27	0.2035	0.2035	100.0	Pass
28	0.1747	0.1747	100.0	Pass
29	0.2265	0.2265	100.0	Pass
30	0.1726	0.1726	100.0	Pass
Oct1	0.1246	0.1246	100.0	Pass
2	0.2841	0.2841	100.0	Pass
3	0.2600	0.2600	100.0	Pass
4	0.3230	0.3230	100.0	Pass
5	0.3456	0.3456	100.0	Pass
6	0.3800	0.3800	100.0	Pass
7	0.4901	0.4901	100.0	Pass
8	0.4124	0.4124	100.0	Pass
9	0.3264	0.3264	100.0	Pass

10	0.2684	0.2684	100.0	Pass
11	0.4725	0.4725	100.0	Pass
12	0.3354	0.3354	100.0	Pass
13	0.4475	0.4475	100.0	Pass
14	0.2800	0.2800	100.0	Pass
15	0.3155	0.3155	100.0	Pass
16	0.4210	0.4210	100.0	Pass
17	0.3891	0.3891	100.0	Pass
18	0.6122	0.6122	100.0	Pass
19	0.7635	0.7635	100.0	Pass
20	0.6662	0.6662	100.0	Pass
21	0.8013	0.8013	100.0	Pass
22	0.5105	0.5105	100.0	Pass
23	0.7814	0.7814	100.0	Pass
24	0.6995	0.6995	100.0	Pass
25	0.6333	0.6333	100.0	Pass
26	0.7502	0.7502	100.0	Pass
27	0.6576	0.6576	100.0	Pass
28	0.6100	0.6100	100.0	Pass
29	0.5248	0.5248	100.0	Pass
30	0.7326	0.7326	100.0	Pass
31	0.6442	0.6442	100.0	Pass
Nov1	0.7985	0.7985	100.0	Pass
2	0.9404	0.9404	100.0	Pass
3	0.7784	0.7784	100.0	Pass
4	0.7694	0.7694	100.0	Pass
5	0.8481	0.8481	100.0	Pass
6	0.7303	0.7303	100.0	Pass
7	0.6602	0.6602	100.0	Pass
8	0.8155	0.8155	100.0	Pass
9	0.9670	0.9670	100.0	Pass
10	0.8497	0.8497	100.0	Pass
11	0.9390	0.9390	100.0	Pass
12	0.8702	0.8702	100.0	Pass
13	0.6878	0.6878	100.0	Pass
14	0.7666	0.7666	100.0	Pass
15	0.8554	0.8554	100.0	Pass
16	0.8916	0.8916	100.0	Pass
17	0.8299	0.8299	100.0	Pass
18	1.1844	1.1844	100.0	Pass
19	1.0907	1.0907	100.0	Pass
20	0.7609	0.7609	100.0	Pass
21	1.1167	1.1167	100.0	Pass
22	1.2976	1.2976	100.0	Pass
23	1.0467	1.0467	100.0	Pass
24	1.1701	1.1701	100.0	Pass
25	0.8210	0.8210	100.0	Pass
26	0.6666	0.6666	100.0	Pass
27	0.7612	0.7612	100.0	Pass
28	0.7287	0.7287	100.0	Pass
29	1.1632	1.1632	100.0	Pass
30	0.9770	0.9770	100.0	Pass
Dec1	1.0600	1.0600	100.0	Pass
2	1.0438	1.0438	100.0	Pass
3	0.7031	0.7031	100.0	Pass
4	0.7439	0.7439	100.0	Pass
5	0.6535	0.6535	100.0	Pass

6	0.5586	0.5586	100.0	Pass
7	0.7668	0.7668	100.0	Pass
8	0.9610	0.9610	100.0	Pass
9	0.9776	0.9776	100.0	Pass
10	1.0609	1.0609	100.0	Pass
11	0.7977	0.7977	100.0	Pass
12	0.8440	0.8440	100.0	Pass
13	1.2058	1.2058	100.0	Pass
14	0.9000	0.9000	100.0	Pass
15	1.1156	1.1156	100.0	Pass
16	0.8034	0.8034	100.0	Pass
17	0.9130	0.9130	100.0	Pass
18	0.7666	0.7666	100.0	Pass
19	0.8669	0.8669	100.0	Pass
20	0.8675	0.8675	100.0	Pass
21	0.9550	0.9550	100.0	Pass
22	0.9354	0.9354	100.0	Pass
23	1.0098	1.0098	100.0	Pass
24	1.1052	1.1052	100.0	Pass
25	0.9966	0.9966	100.0	Pass
26	0.9135	0.9135	100.0	Pass
27	0.6327	0.6327	100.0	Pass
28	0.9268	0.9268	100.0	Pass
29	0.6562	0.6562	100.0	Pass
30	0.6592	0.6592	100.0	Pass
31	1.0633	1.0633	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #12

Total Pervious Area:0.465
Total Impervious Area:0.643

Mitigated Landuse Totals for POC #12

Total Pervious Area:0.465
Total Impervious Area:0.643

Flow Frequency Return Periods for Predeveloped. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.575464
5 year	0.706206
10 year	0.778634
25 year	0.858164
50 year	0.910465
100 year	0.957925

Flow Frequency Return Periods for Mitigated. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.575464
5 year	0.706206

10 year	0.778634
25 year	0.858164
50 year	0.910465
100 year	0.957925

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #12

Year	Predeveloped	Mitigated
1956	0.653	0.653
1957	0.761	0.761
1958	0.559	0.559
1959	0.616	0.616
1960	0.648	0.648
1961	0.445	0.445
1962	0.854	0.854
1963	0.767	0.767
1964	0.629	0.629
1965	0.646	0.646
1966	0.656	0.656
1967	0.377	0.377
1968	0.611	0.611
1969	0.601	0.601
1970	0.503	0.503
1971	0.865	0.865
1972	0.747	0.747
1973	0.641	0.641
1974	0.660	0.660
1975	0.560	0.560
1976	0.696	0.696
1977	0.480	0.480
1978	0.849	0.849
1979	0.542	0.542
1980	0.487	0.487
1981	0.616	0.616
1982	0.709	0.709
1983	0.563	0.563
1984	0.544	0.544
1985	0.355	0.355
1986	0.648	0.648
1987	0.445	0.445
1988	0.693	0.693
1989	0.559	0.559
1990	0.778	0.778
1991	0.462	0.462
1992	0.349	0.349
1993	0.384	0.384
1994	0.540	0.540
1995	0.447	0.447
1996	0.561	0.561
1997	0.613	0.613
1998	0.368	0.368
1999	0.486	0.486
2000	0.447	0.447
2001	0.399	0.399
2002	0.552	0.552
2003	0.842	0.842

2004	0.760	0.760
2005	0.583	0.583
2006	0.604	0.604
2007	0.726	0.726
2008	0.335	0.335
2009	0.309	0.309

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #12

Rank	Predeveloped	Mitigated
1	0.8647	0.8647
2	0.8544	0.8544
3	0.8488	0.8488
4	0.8421	0.8421
5	0.7779	0.7779
6	0.7672	0.7672
7	0.7605	0.7605
8	0.7602	0.7602
9	0.7472	0.7472
10	0.7258	0.7258
11	0.7089	0.7089
12	0.6957	0.6957
13	0.6925	0.6925
14	0.6597	0.6597
15	0.6559	0.6559
16	0.6529	0.6529
17	0.6480	0.6480
18	0.6478	0.6478
19	0.6464	0.6464
20	0.6405	0.6405
21	0.6287	0.6287
22	0.6164	0.6164
23	0.6155	0.6155
24	0.6133	0.6133
25	0.6106	0.6106
26	0.6040	0.6040
27	0.6015	0.6015
28	0.5826	0.5826
29	0.5629	0.5629
30	0.5610	0.5610
31	0.5595	0.5595
32	0.5588	0.5588
33	0.5587	0.5587
34	0.5518	0.5518
35	0.5444	0.5444
36	0.5422	0.5422
37	0.5404	0.5404
38	0.5026	0.5026
39	0.4866	0.4866
40	0.4861	0.4861
41	0.4801	0.4801
42	0.4620	0.4620
43	0.4475	0.4475
44	0.4473	0.4473
45	0.4448	0.4448
46	0.4447	0.4447

47	0.3988	0.3988
48	0.3835	0.3835
49	0.3773	0.3773
50	0.3681	0.3681
51	0.3553	0.3553
52	0.3486	0.3486
53	0.3349	0.3349
54	0.3091	0.3091

Stream Protection Duration

POC #12

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2877	846	846	100	Pass
0.2940	778	778	100	Pass
0.3003	733	733	100	Pass
0.3066	687	687	100	Pass
0.3129	632	632	100	Pass
0.3192	587	587	100	Pass
0.3255	560	560	100	Pass
0.3318	514	514	100	Pass
0.3381	477	477	100	Pass
0.3443	439	439	100	Pass
0.3506	406	406	100	Pass
0.3569	386	386	100	Pass
0.3632	358	358	100	Pass
0.3695	341	341	100	Pass
0.3758	324	324	100	Pass
0.3821	288	288	100	Pass
0.3884	270	270	100	Pass
0.3947	249	249	100	Pass
0.4010	239	239	100	Pass
0.4072	221	221	100	Pass
0.4135	213	213	100	Pass
0.4198	203	203	100	Pass
0.4261	191	191	100	Pass
0.4324	180	180	100	Pass
0.4387	171	171	100	Pass
0.4450	163	163	100	Pass
0.4513	147	147	100	Pass
0.4576	142	142	100	Pass
0.4639	137	137	100	Pass
0.4701	132	132	100	Pass
0.4764	126	126	100	Pass
0.4827	120	120	100	Pass
0.4890	110	110	100	Pass
0.4953	107	107	100	Pass
0.5016	99	99	100	Pass
0.5079	96	96	100	Pass
0.5142	93	93	100	Pass
0.5205	89	89	100	Pass
0.5268	84	84	100	Pass
0.5331	81	81	100	Pass

0.5393	76	76	100	Pass
0.5456	72	72	100	Pass
0.5519	70	70	100	Pass
0.5582	65	65	100	Pass
0.5645	59	59	100	Pass
0.5708	55	55	100	Pass
0.5771	52	52	100	Pass
0.5834	48	48	100	Pass
0.5897	48	48	100	Pass
0.5960	48	48	100	Pass
0.6022	45	45	100	Pass
0.6085	44	44	100	Pass
0.6148	41	41	100	Pass
0.6211	38	38	100	Pass
0.6274	37	37	100	Pass
0.6337	34	34	100	Pass
0.6400	34	34	100	Pass
0.6463	32	32	100	Pass
0.6526	28	28	100	Pass
0.6589	26	26	100	Pass
0.6651	24	24	100	Pass
0.6714	24	24	100	Pass
0.6777	23	23	100	Pass
0.6840	21	21	100	Pass
0.6903	19	19	100	Pass
0.6966	17	17	100	Pass
0.7029	15	15	100	Pass
0.7092	14	14	100	Pass
0.7155	14	14	100	Pass
0.7218	13	13	100	Pass
0.7280	11	11	100	Pass
0.7343	11	11	100	Pass
0.7406	11	11	100	Pass
0.7469	11	11	100	Pass
0.7532	10	10	100	Pass
0.7595	10	10	100	Pass
0.7658	8	8	100	Pass
0.7721	7	7	100	Pass
0.7784	6	6	100	Pass
0.7847	6	6	100	Pass
0.7910	6	6	100	Pass
0.7972	6	6	100	Pass
0.8035	6	6	100	Pass
0.8098	5	5	100	Pass
0.8161	5	5	100	Pass
0.8224	4	4	100	Pass
0.8287	4	4	100	Pass
0.8350	4	4	100	Pass
0.8413	4	4	100	Pass
0.8476	3	3	100	Pass
0.8539	2	2	100	Pass
0.8601	1	1	100	Pass
0.8664	0	0	100	Pass
0.8727	0	0	0	Pass
0.8790	0	0	0	Pass
0.8853	0	0	0	Pass
0.8916	0	0	0	Pass

0.8979	0	0	0	Pass
0.9042	0	0	0	Pass
0.9105	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #12
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 12
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	40.1117	40.1117	100.0	Pass
Feb	30.8578	30.8578	100.0	Pass
Mar	27.2199	27.2199	100.0	Pass
Apr	14.8467	14.8467	100.0	Pass
May	7.4526	7.4526	100.0	Pass
Jun	4.7861	4.7861	100.0	Pass
Jul	2.2821	2.2821	100.0	Pass
Aug	3.3386	3.3386	100.0	Pass
Sep	8.0362	8.0362	100.0	Pass
Oct	20.7767	20.7767	100.0	Pass
Nov	37.3290	37.3290	100.0	Pass
Dec	38.7034	38.7034	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.2794	1.2794	100.0	Pass
2	1.0392	1.0392	100.0	Pass
3	1.2699	1.2699	100.0	Pass
4	1.4580	1.4580	100.0	Pass
5	1.1313	1.1313	100.0	Pass
6	1.5860	1.5860	100.0	Pass
7	1.3078	1.3078	100.0	Pass
8	1.2944	1.2944	100.0	Pass
9	1.3500	1.3500	100.0	Pass
10	1.3410	1.3410	100.0	Pass
11	1.6054	1.6054	100.0	Pass
12	1.3175	1.3175	100.0	Pass
13	1.5921	1.5921	100.0	Pass
14	1.6088	1.6088	100.0	Pass
15	1.4882	1.4882	100.0	Pass
16	1.2672	1.2672	100.0	Pass
17	1.1997	1.1997	100.0	Pass
18	1.0612	1.0612	100.0	Pass
19	1.0337	1.0337	100.0	Pass
20	0.7235	0.7235	100.0	Pass
21	1.1924	1.1924	100.0	Pass
22	1.4998	1.4998	100.0	Pass
23	1.7065	1.7065	100.0	Pass
24	1.2467	1.2467	100.0	Pass
25	1.0599	1.0599	100.0	Pass

26	0.9555	0.9555	100.0	Pass
27	1.1321	1.1321	100.0	Pass
28	1.4210	1.4210	100.0	Pass
29	1.1463	1.1463	100.0	Pass
30	1.3025	1.3025	100.0	Pass
31	0.8554	0.8554	100.0	Pass
Feb1	0.9225	0.9225	100.0	Pass
2	0.8314	0.8314	100.0	Pass
3	0.7618	0.7618	100.0	Pass
4	0.7060	0.7060	100.0	Pass
5	1.2029	1.2029	100.0	Pass
6	0.7020	0.7020	100.0	Pass
7	0.9168	0.9168	100.0	Pass
8	0.7294	0.7294	100.0	Pass
9	0.8314	0.8314	100.0	Pass
10	1.0858	1.0858	100.0	Pass
11	1.4501	1.4501	100.0	Pass
12	1.2023	1.2023	100.0	Pass
13	1.2521	1.2521	100.0	Pass
14	1.6888	1.6888	100.0	Pass
15	1.3361	1.3361	100.0	Pass
16	1.6534	1.6534	100.0	Pass
17	1.5023	1.5023	100.0	Pass
18	1.2449	1.2449	100.0	Pass
19	1.0729	1.0729	100.0	Pass
20	1.0195	1.0195	100.0	Pass
21	0.8363	0.8363	100.0	Pass
22	1.1549	1.1549	100.0	Pass
23	1.1182	1.1182	100.0	Pass
24	1.2263	1.2263	100.0	Pass
25	1.1213	1.1213	100.0	Pass
26	1.1130	1.1130	100.0	Pass
27	0.9844	0.9844	100.0	Pass
28	1.2152	1.2152	100.0	Pass
29	0.9340	0.9340	100.0	Pass
Mar1	0.9099	0.9099	100.0	Pass
2	0.7625	0.7625	100.0	Pass
3	1.0147	1.0147	100.0	Pass
4	1.0744	1.0744	100.0	Pass
5	0.8701	0.8701	100.0	Pass
6	1.0812	1.0812	100.0	Pass
7	1.0447	1.0447	100.0	Pass
8	1.0332	1.0332	100.0	Pass
9	1.0365	1.0365	100.0	Pass
10	0.9229	0.9229	100.0	Pass
11	0.9830	0.9830	100.0	Pass
12	0.8759	0.8759	100.0	Pass
13	1.0394	1.0394	100.0	Pass
14	0.8542	0.8542	100.0	Pass
15	0.7025	0.7025	100.0	Pass
16	0.6615	0.6615	100.0	Pass
17	0.8754	0.8754	100.0	Pass
18	0.5707	0.5707	100.0	Pass
19	0.7893	0.7893	100.0	Pass
20	0.6569	0.6569	100.0	Pass
21	1.0458	1.0458	100.0	Pass
22	1.1863	1.1863	100.0	Pass

23	1.0379	1.0379	100.0	Pass
24	0.7142	0.7142	100.0	Pass
25	0.9871	0.9871	100.0	Pass
26	0.7649	0.7649	100.0	Pass
27	0.7083	0.7083	100.0	Pass
28	0.7935	0.7935	100.0	Pass
29	0.7255	0.7255	100.0	Pass
30	0.5653	0.5653	100.0	Pass
31	0.4550	0.4550	100.0	Pass
Apr1	0.4684	0.4684	100.0	Pass
2	0.5145	0.5145	100.0	Pass
3	0.6758	0.6758	100.0	Pass
4	0.6398	0.6398	100.0	Pass
5	0.7024	0.7024	100.0	Pass
6	0.4078	0.4078	100.0	Pass
7	0.5998	0.5998	100.0	Pass
8	0.6220	0.6220	100.0	Pass
9	0.5480	0.5480	100.0	Pass
10	0.5557	0.5557	100.0	Pass
11	0.7143	0.7143	100.0	Pass
12	0.6452	0.6452	100.0	Pass
13	0.6620	0.6620	100.0	Pass
14	0.5821	0.5821	100.0	Pass
15	0.6199	0.6199	100.0	Pass
16	0.3738	0.3738	100.0	Pass
17	0.4634	0.4634	100.0	Pass
18	0.5248	0.5248	100.0	Pass
19	0.3172	0.3172	100.0	Pass
20	0.2884	0.2884	100.0	Pass
21	0.4502	0.4502	100.0	Pass
22	0.3860	0.3860	100.0	Pass
23	0.3476	0.3476	100.0	Pass
24	0.2837	0.2837	100.0	Pass
25	0.3243	0.3243	100.0	Pass
26	0.5410	0.5410	100.0	Pass
27	0.4367	0.4367	100.0	Pass
28	0.4552	0.4552	100.0	Pass
29	0.2435	0.2435	100.0	Pass
30	0.2869	0.2869	100.0	Pass
May1	0.4240	0.4240	100.0	Pass
2	0.3302	0.3302	100.0	Pass
3	0.3408	0.3408	100.0	Pass
4	0.2800	0.2800	100.0	Pass
5	0.2642	0.2642	100.0	Pass
6	0.2223	0.2223	100.0	Pass
7	0.2852	0.2852	100.0	Pass
8	0.1863	0.1863	100.0	Pass
9	0.2430	0.2430	100.0	Pass
10	0.1974	0.1974	100.0	Pass
11	0.1839	0.1839	100.0	Pass
12	0.2593	0.2593	100.0	Pass
13	0.2785	0.2785	100.0	Pass
14	0.2724	0.2724	100.0	Pass
15	0.1971	0.1971	100.0	Pass
16	0.2368	0.2368	100.0	Pass
17	0.2005	0.2005	100.0	Pass
18	0.3044	0.3044	100.0	Pass

19	0.1748	0.1748	100.0	Pass
20	0.1622	0.1622	100.0	Pass
21	0.1657	0.1657	100.0	Pass
22	0.1965	0.1965	100.0	Pass
23	0.1786	0.1786	100.0	Pass
24	0.1879	0.1879	100.0	Pass
25	0.1601	0.1601	100.0	Pass
26	0.2652	0.2652	100.0	Pass
27	0.2158	0.2158	100.0	Pass
28	0.2295	0.2295	100.0	Pass
29	0.3125	0.3125	100.0	Pass
30	0.2113	0.2113	100.0	Pass
31	0.2290	0.2290	100.0	Pass
Jun1	0.1793	0.1793	100.0	Pass
2	0.2656	0.2656	100.0	Pass
3	0.2538	0.2538	100.0	Pass
4	0.1895	0.1895	100.0	Pass
5	0.3028	0.3028	100.0	Pass
6	0.1308	0.1308	100.0	Pass
7	0.1848	0.1848	100.0	Pass
8	0.2524	0.2524	100.0	Pass
9	0.1939	0.1939	100.0	Pass
10	0.1795	0.1795	100.0	Pass
11	0.1338	0.1338	100.0	Pass
12	0.1551	0.1551	100.0	Pass
13	0.2464	0.2464	100.0	Pass
14	0.1126	0.1126	100.0	Pass
15	0.2053	0.2053	100.0	Pass
16	0.1004	0.1004	100.0	Pass
17	0.1305	0.1305	100.0	Pass
18	0.0951	0.0951	100.0	Pass
19	0.1026	0.1026	100.0	Pass
20	0.1088	0.1088	100.0	Pass
21	0.1123	0.1123	100.0	Pass
22	0.0649	0.0649	100.0	Pass
23	0.2953	0.2953	100.0	Pass
24	0.0969	0.0969	100.0	Pass
25	0.1388	0.1388	100.0	Pass
26	0.0840	0.0840	100.0	Pass
27	0.0729	0.0729	100.0	Pass
28	0.0740	0.0740	100.0	Pass
29	0.0957	0.0957	100.0	Pass
30	0.2112	0.2112	100.0	Pass
Jul1	0.0606	0.0606	100.0	Pass
2	0.0483	0.0483	100.0	Pass
3	0.0496	0.0496	100.0	Pass
4	0.1140	0.1140	100.0	Pass
5	0.0871	0.0871	100.0	Pass
6	0.0666	0.0666	100.0	Pass
7	0.1315	0.1315	100.0	Pass
8	0.0808	0.0808	100.0	Pass
9	0.1556	0.1556	100.0	Pass
10	0.1061	0.1061	100.0	Pass
11	0.2186	0.2186	100.0	Pass
12	0.1291	0.1291	100.0	Pass
13	0.0913	0.0913	100.0	Pass
14	0.1258	0.1258	100.0	Pass

15	0.0540	0.0540	100.0	Pass
16	0.0337	0.0337	100.0	Pass
17	0.1044	0.1044	100.0	Pass
18	0.0412	0.0412	100.0	Pass
19	0.0455	0.0455	100.0	Pass
20	0.0744	0.0744	100.0	Pass
21	0.0626	0.0626	100.0	Pass
22	0.0093	0.0093	100.0	Pass
23	0.0181	0.0181	100.0	Pass
24	0.0194	0.0194	100.0	Pass
25	0.0413	0.0413	100.0	Pass
26	0.0172	0.0172	100.0	Pass
27	0.0257	0.0257	100.0	Pass
28	0.0216	0.0216	100.0	Pass
29	0.0143	0.0143	100.0	Pass
30	0.0238	0.0238	100.0	Pass
31	0.0277	0.0277	100.0	Pass
Aug1	0.1139	0.1139	100.0	Pass
2	0.0435	0.0435	100.0	Pass
3	0.0184	0.0184	100.0	Pass
4	0.0171	0.0171	100.0	Pass
5	0.1319	0.1319	100.0	Pass
6	0.0922	0.0922	100.0	Pass
7	0.0359	0.0359	100.0	Pass
8	0.0340	0.0340	100.0	Pass
9	0.0038	0.0038	100.0	Pass
10	0.0173	0.0173	100.0	Pass
11	0.0828	0.0828	100.0	Pass
12	0.0718	0.0718	100.0	Pass
13	0.0911	0.0911	100.0	Pass
14	0.0595	0.0595	100.0	Pass
15	0.0554	0.0554	100.0	Pass
16	0.0455	0.0455	100.0	Pass
17	0.0828	0.0828	100.0	Pass
18	0.1592	0.1592	100.0	Pass
19	0.0511	0.0511	100.0	Pass
20	0.1255	0.1255	100.0	Pass
21	0.1200	0.1200	100.0	Pass
22	0.2302	0.2302	100.0	Pass
23	0.2251	0.2251	100.0	Pass
24	0.2104	0.2104	100.0	Pass
25	0.0942	0.0942	100.0	Pass
26	0.2262	0.2262	100.0	Pass
27	0.2370	0.2370	100.0	Pass
28	0.2441	0.2441	100.0	Pass
29	0.1568	0.1568	100.0	Pass
30	0.2347	0.2347	100.0	Pass
31	0.3793	0.3793	100.0	Pass
Sep1	0.1732	0.1732	100.0	Pass
2	0.1647	0.1647	100.0	Pass
3	0.1705	0.1705	100.0	Pass
4	0.2054	0.2054	100.0	Pass
5	0.1789	0.1789	100.0	Pass
6	0.1261	0.1261	100.0	Pass
7	0.2263	0.2263	100.0	Pass
8	0.1537	0.1537	100.0	Pass
9	0.3657	0.3657	100.0	Pass

10	0.1013	0.1013	100.0	Pass
11	0.0800	0.0800	100.0	Pass
12	0.1937	0.1937	100.0	Pass
13	0.3673	0.3673	100.0	Pass
14	0.2499	0.2499	100.0	Pass
15	0.3648	0.3648	100.0	Pass
16	0.4068	0.4068	100.0	Pass
17	0.4312	0.4312	100.0	Pass
18	0.3913	0.3913	100.0	Pass
19	0.4276	0.4276	100.0	Pass
20	0.3307	0.3307	100.0	Pass
21	0.4441	0.4441	100.0	Pass
22	0.3614	0.3614	100.0	Pass
23	0.2835	0.2835	100.0	Pass
24	0.2039	0.2039	100.0	Pass
25	0.2047	0.2047	100.0	Pass
26	0.2065	0.2065	100.0	Pass
27	0.2848	0.2848	100.0	Pass
28	0.2442	0.2442	100.0	Pass
29	0.3157	0.3157	100.0	Pass
30	0.2422	0.2422	100.0	Pass
Oct1	0.1755	0.1755	100.0	Pass
2	0.3946	0.3946	100.0	Pass
3	0.3623	0.3623	100.0	Pass
4	0.4510	0.4510	100.0	Pass
5	0.4830	0.4830	100.0	Pass
6	0.5307	0.5307	100.0	Pass
7	0.6851	0.6851	100.0	Pass
8	0.5789	0.5789	100.0	Pass
9	0.4592	0.4592	100.0	Pass
10	0.3780	0.3780	100.0	Pass
11	0.6592	0.6592	100.0	Pass
12	0.4712	0.4712	100.0	Pass
13	0.6251	0.6251	100.0	Pass
14	0.3955	0.3955	100.0	Pass
15	0.4432	0.4432	100.0	Pass
16	0.5906	0.5906	100.0	Pass
17	0.5466	0.5466	100.0	Pass
18	0.8581	0.8581	100.0	Pass
19	1.0717	1.0717	100.0	Pass
20	0.9364	0.9364	100.0	Pass
21	1.1255	1.1255	100.0	Pass
22	0.7237	0.7237	100.0	Pass
23	1.0979	1.0979	100.0	Pass
24	0.9853	0.9853	100.0	Pass
25	0.8932	0.8932	100.0	Pass
26	1.0553	1.0553	100.0	Pass
27	0.9284	0.9284	100.0	Pass
28	0.8609	0.8609	100.0	Pass
29	0.7421	0.7421	100.0	Pass
30	1.0290	1.0290	100.0	Pass
31	0.9092	0.9092	100.0	Pass
Nov1	1.1247	1.1247	100.0	Pass
2	1.3205	1.3205	100.0	Pass
3	1.1010	1.1010	100.0	Pass
4	1.0850	1.0850	100.0	Pass
5	1.1956	1.1956	100.0	Pass

6	1.0331	1.0331	100.0	Pass
7	0.9337	0.9337	100.0	Pass
8	1.1474	1.1474	100.0	Pass
9	1.3611	1.3611	100.0	Pass
10	1.1995	1.1995	100.0	Pass
11	1.3238	1.3238	100.0	Pass
12	1.2271	1.2271	100.0	Pass
13	0.9758	0.9758	100.0	Pass
14	1.0816	1.0816	100.0	Pass
15	1.2059	1.2059	100.0	Pass
16	1.2567	1.2567	100.0	Pass
17	1.1721	1.1721	100.0	Pass
18	1.6669	1.6669	100.0	Pass
19	1.5404	1.5404	100.0	Pass
20	1.0810	1.0810	100.0	Pass
21	1.5739	1.5739	100.0	Pass
22	1.8253	1.8253	100.0	Pass
23	1.4822	1.4822	100.0	Pass
24	1.6525	1.6525	100.0	Pass
25	1.1676	1.1676	100.0	Pass
26	0.9479	0.9479	100.0	Pass
27	1.0748	1.0748	100.0	Pass
28	1.0292	1.0292	100.0	Pass
29	1.6354	1.6354	100.0	Pass
30	1.3819	1.3819	100.0	Pass
Dec1	1.4962	1.4962	100.0	Pass
2	1.4762	1.4762	100.0	Pass
3	0.9999	0.9999	100.0	Pass
4	1.0523	1.0523	100.0	Pass
5	0.9268	0.9268	100.0	Pass
6	0.7909	0.7909	100.0	Pass
7	1.0796	1.0796	100.0	Pass
8	1.3525	1.3525	100.0	Pass
9	1.3799	1.3799	100.0	Pass
10	1.4985	1.4985	100.0	Pass
11	1.1308	1.1308	100.0	Pass
12	1.1931	1.1931	100.0	Pass
13	1.6963	1.6963	100.0	Pass
14	1.2770	1.2770	100.0	Pass
15	1.5731	1.5731	100.0	Pass
16	1.1415	1.1415	100.0	Pass
17	1.2901	1.2901	100.0	Pass
18	1.0858	1.0858	100.0	Pass
19	1.2226	1.2226	100.0	Pass
20	1.2265	1.2265	100.0	Pass
21	1.3502	1.3502	100.0	Pass
22	1.3218	1.3218	100.0	Pass
23	1.4259	1.4259	100.0	Pass
24	1.5583	1.5583	100.0	Pass
25	1.4114	1.4114	100.0	Pass
26	1.2946	1.2946	100.0	Pass
27	0.8998	0.8998	100.0	Pass
28	1.3065	1.3065	100.0	Pass
29	0.9326	0.9326	100.0	Pass
30	0.9327	0.9327	100.0	Pass
31	1.4965	1.4965	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #13

Total Pervious Area:0.127

Total Impervious Area:0.27

Mitigated Landuse Totals for POC #13

Total Pervious Area:0.127

Total Impervious Area:0.27

Flow Frequency Return Periods for Predeveloped. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.219252
5 year	0.265632
10 year	0.291086
25 year	0.318867
50 year	0.337047
100 year	0.353488

Flow Frequency Return Periods for Mitigated. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.219252
5 year	0.265632
10 year	0.291086
25 year	0.318867
50 year	0.337047
100 year	0.353488

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #13

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.242	0.242
1957	0.288	0.288
1958	0.215	0.215
1959	0.230	0.230
1960	0.241	0.241
1961	0.176	0.176
1962	0.317	0.317
1963	0.286	0.286
1964	0.240	0.240
1965	0.243	0.243
1966	0.244	0.244
1967	0.146	0.146
1968	0.230	0.230
1969	0.223	0.223
1970	0.196	0.196
1971	0.322	0.322
1972	0.276	0.276
1973	0.243	0.243

1974	0.245	0.245
1975	0.211	0.211
1976	0.261	0.261
1977	0.184	0.184
1978	0.322	0.322
1979	0.204	0.204
1980	0.185	0.185
1981	0.235	0.235
1982	0.271	0.271
1983	0.214	0.214
1984	0.205	0.205
1985	0.142	0.142
1986	0.245	0.245
1987	0.169	0.169
1988	0.261	0.261
1989	0.213	0.213
1990	0.290	0.290
1991	0.174	0.174
1992	0.137	0.137
1993	0.151	0.151
1994	0.206	0.206
1995	0.181	0.181
1996	0.225	0.225
1997	0.235	0.235
1998	0.144	0.144
1999	0.186	0.186
2000	0.170	0.170
2001	0.157	0.157
2002	0.229	0.229
2003	0.312	0.312
2004	0.285	0.285
2005	0.221	0.221
2006	0.227	0.227
2007	0.271	0.271
2008	0.131	0.131
2009	0.122	0.122

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #13

Rank	Predeveloped	Mitigated
1	0.3223	0.3223
2	0.3215	0.3215
3	0.3171	0.3171
4	0.3120	0.3120
5	0.2898	0.2898
6	0.2879	0.2879
7	0.2864	0.2864
8	0.2847	0.2847
9	0.2762	0.2762
10	0.2709	0.2709
11	0.2708	0.2708
12	0.2611	0.2611
13	0.2610	0.2610
14	0.2451	0.2451
15	0.2445	0.2445
16	0.2441	0.2441

17	0.2434	0.2434
18	0.2434	0.2434
19	0.2423	0.2423
20	0.2408	0.2408
21	0.2398	0.2398
22	0.2353	0.2353
23	0.2350	0.2350
24	0.2300	0.2300
25	0.2297	0.2297
26	0.2287	0.2287
27	0.2272	0.2272
28	0.2248	0.2248
29	0.2235	0.2235
30	0.2206	0.2206
31	0.2151	0.2151
32	0.2144	0.2144
33	0.2130	0.2130
34	0.2114	0.2114
35	0.2058	0.2058
36	0.2050	0.2050
37	0.2045	0.2045
38	0.1956	0.1956
39	0.1860	0.1860
40	0.1848	0.1848
41	0.1836	0.1836
42	0.1813	0.1813
43	0.1757	0.1757
44	0.1745	0.1745
45	0.1705	0.1705
46	0.1690	0.1690
47	0.1572	0.1572
48	0.1508	0.1508
49	0.1461	0.1461
50	0.1437	0.1437
51	0.1417	0.1417
52	0.1365	0.1365
53	0.1311	0.1311
54	0.1223	0.1223

Stream Protection Duration

POC #13

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1096	952	952	100	Pass
0.1119	887	887	100	Pass
0.1142	798	798	100	Pass
0.1165	764	764	100	Pass
0.1188	719	719	100	Pass
0.1211	644	644	100	Pass
0.1234	598	598	100	Pass
0.1257	572	572	100	Pass
0.1280	523	523	100	Pass
0.1303	483	483	100	Pass

0.1326	459	459	100	Pass
0.1349	431	431	100	Pass
0.1372	393	393	100	Pass
0.1395	376	376	100	Pass
0.1418	356	356	100	Pass
0.1441	325	325	100	Pass
0.1464	306	306	100	Pass
0.1487	284	284	100	Pass
0.1510	268	268	100	Pass
0.1533	246	246	100	Pass
0.1556	225	225	100	Pass
0.1579	220	220	100	Pass
0.1602	209	209	100	Pass
0.1625	197	197	100	Pass
0.1648	186	186	100	Pass
0.1671	176	176	100	Pass
0.1694	168	168	100	Pass
0.1716	154	154	100	Pass
0.1739	150	150	100	Pass
0.1762	139	139	100	Pass
0.1785	136	136	100	Pass
0.1808	133	133	100	Pass
0.1831	123	123	100	Pass
0.1854	114	114	100	Pass
0.1877	108	108	100	Pass
0.1900	98	98	100	Pass
0.1923	96	96	100	Pass
0.1946	94	94	100	Pass
0.1969	90	90	100	Pass
0.1992	86	86	100	Pass
0.2015	81	81	100	Pass
0.2038	80	80	100	Pass
0.2061	72	72	100	Pass
0.2084	71	71	100	Pass
0.2107	67	67	100	Pass
0.2130	64	64	100	Pass
0.2153	59	59	100	Pass
0.2176	53	53	100	Pass
0.2199	51	51	100	Pass
0.2222	50	50	100	Pass
0.2245	48	48	100	Pass
0.2268	47	47	100	Pass
0.2291	43	43	100	Pass
0.2314	41	41	100	Pass
0.2337	40	40	100	Pass
0.2360	39	39	100	Pass
0.2383	35	35	100	Pass
0.2406	34	34	100	Pass
0.2429	32	32	100	Pass
0.2452	26	26	100	Pass
0.2475	24	24	100	Pass
0.2498	24	24	100	Pass
0.2521	24	24	100	Pass
0.2543	23	23	100	Pass
0.2566	21	21	100	Pass
0.2589	20	20	100	Pass
0.2612	19	19	100	Pass

0.2635	16	16	100	Pass
0.2658	15	15	100	Pass
0.2681	15	15	100	Pass
0.2704	14	14	100	Pass
0.2727	12	12	100	Pass
0.2750	11	11	100	Pass
0.2773	10	10	100	Pass
0.2796	10	10	100	Pass
0.2819	10	10	100	Pass
0.2842	10	10	100	Pass
0.2865	9	9	100	Pass
0.2888	7	7	100	Pass
0.2911	6	6	100	Pass
0.2934	6	6	100	Pass
0.2957	6	6	100	Pass
0.2980	6	6	100	Pass
0.3003	5	5	100	Pass
0.3026	5	5	100	Pass
0.3049	5	5	100	Pass
0.3072	4	4	100	Pass
0.3095	4	4	100	Pass
0.3118	4	4	100	Pass
0.3141	3	3	100	Pass
0.3164	3	3	100	Pass
0.3187	2	2	100	Pass
0.3210	2	2	100	Pass
0.3233	0	0	100	Pass
0.3256	0	0	0	Pass
0.3279	0	0	0	Pass
0.3302	0	0	0	Pass
0.3325	0	0	0	Pass
0.3347	0	0	0	Pass
0.3370	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #13
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 13
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	14.7198	14.7198	100.0	Pass
Feb	11.2980	11.2980	100.0	Pass
Mar	9.9825	9.9825	100.0	Pass
Apr	5.4928	5.4928	100.0	Pass
May	2.8350	2.8350	100.0	Pass
Jun	1.8467	1.8467	100.0	Pass
Jul	0.8954	0.8954	100.0	Pass
Aug	1.3249	1.3249	100.0	Pass
Sep	3.1129	3.1129	100.0	Pass

Oct	7.8668	7.8668	100.0	Pass
Nov	13.8148	13.8148	100.0	Pass
Dec	14.2023	14.2023	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4707	0.4707	100.0	Pass
2	0.3767	0.3767	100.0	Pass
3	0.4694	0.4694	100.0	Pass
4	0.5447	0.5447	100.0	Pass
5	0.4099	0.4099	100.0	Pass
6	0.5938	0.5938	100.0	Pass
7	0.4753	0.4753	100.0	Pass
8	0.4738	0.4738	100.0	Pass
9	0.4995	0.4995	100.0	Pass
10	0.4909	0.4909	100.0	Pass
11	0.5938	0.5938	100.0	Pass
12	0.4775	0.4775	100.0	Pass
13	0.5883	0.5883	100.0	Pass
14	0.5909	0.5909	100.0	Pass
15	0.5431	0.5431	100.0	Pass
16	0.4545	0.4545	100.0	Pass
17	0.4327	0.4327	100.0	Pass
18	0.3824	0.3824	100.0	Pass
19	0.3768	0.3768	100.0	Pass
20	0.2562	0.2562	100.0	Pass
21	0.4533	0.4533	100.0	Pass
22	0.5598	0.5598	100.0	Pass
23	0.6320	0.6320	100.0	Pass
24	0.4474	0.4474	100.0	Pass
25	0.3798	0.3798	100.0	Pass
26	0.3427	0.3427	100.0	Pass
27	0.4182	0.4182	100.0	Pass
28	0.5284	0.5284	100.0	Pass
29	0.4157	0.4157	100.0	Pass
30	0.4812	0.4812	100.0	Pass
31	0.3033	0.3033	100.0	Pass
Feb1	0.3355	0.3355	100.0	Pass
2	0.3042	0.3042	100.0	Pass
3	0.2769	0.2769	100.0	Pass
4	0.2566	0.2566	100.0	Pass
5	0.4537	0.4537	100.0	Pass
6	0.2478	0.2478	100.0	Pass
7	0.3400	0.3400	100.0	Pass
8	0.2647	0.2647	100.0	Pass
9	0.3096	0.3096	100.0	Pass
10	0.4081	0.4081	100.0	Pass
11	0.5415	0.5415	100.0	Pass
12	0.4369	0.4369	100.0	Pass
13	0.4616	0.4616	100.0	Pass
14	0.6337	0.6337	100.0	Pass
15	0.4823	0.4823	100.0	Pass
16	0.6129	0.6129	100.0	Pass
17	0.5486	0.5486	100.0	Pass
18	0.4444	0.4444	100.0	Pass
19	0.3847	0.3847	100.0	Pass
20	0.3679	0.3679	100.0	Pass
21	0.3016	0.3016	100.0	Pass

22	0.4281	0.4281	100.0	Pass
23	0.4109	0.4109	100.0	Pass
24	0.4516	0.4516	100.0	Pass
25	0.4085	0.4085	100.0	Pass
26	0.4041	0.4041	100.0	Pass
27	0.3557	0.3557	100.0	Pass
28	0.4440	0.4440	100.0	Pass
29	0.3398	0.3398	100.0	Pass
Mar1	0.3328	0.3328	100.0	Pass
2	0.2756	0.2756	100.0	Pass
3	0.3774	0.3774	100.0	Pass
4	0.3974	0.3974	100.0	Pass
5	0.3173	0.3173	100.0	Pass
6	0.3975	0.3975	100.0	Pass
7	0.3869	0.3869	100.0	Pass
8	0.3792	0.3792	100.0	Pass
9	0.3804	0.3804	100.0	Pass
10	0.3352	0.3352	100.0	Pass
11	0.3603	0.3603	100.0	Pass
12	0.3199	0.3199	100.0	Pass
13	0.3838	0.3838	100.0	Pass
14	0.3099	0.3099	100.0	Pass
15	0.2534	0.2534	100.0	Pass
16	0.2414	0.2414	100.0	Pass
17	0.3235	0.3235	100.0	Pass
18	0.2044	0.2044	100.0	Pass
19	0.2942	0.2942	100.0	Pass
20	0.2409	0.2409	100.0	Pass
21	0.3946	0.3946	100.0	Pass
22	0.4449	0.4449	100.0	Pass
23	0.3786	0.3786	100.0	Pass
24	0.2519	0.2519	100.0	Pass
25	0.3668	0.3668	100.0	Pass
26	0.2757	0.2757	100.0	Pass
27	0.2595	0.2595	100.0	Pass
28	0.2908	0.2908	100.0	Pass
29	0.2661	0.2661	100.0	Pass
30	0.2032	0.2032	100.0	Pass
31	0.1636	0.1636	100.0	Pass
Apr1	0.1717	0.1717	100.0	Pass
2	0.1909	0.1909	100.0	Pass
3	0.2564	0.2564	100.0	Pass
4	0.2375	0.2375	100.0	Pass
5	0.2582	0.2582	100.0	Pass
6	0.1442	0.1442	100.0	Pass
7	0.2253	0.2253	100.0	Pass
8	0.2303	0.2303	100.0	Pass
9	0.2035	0.2035	100.0	Pass
10	0.2039	0.2039	100.0	Pass
11	0.2711	0.2711	100.0	Pass
12	0.2383	0.2383	100.0	Pass
13	0.2467	0.2467	100.0	Pass
14	0.2133	0.2133	100.0	Pass
15	0.2280	0.2280	100.0	Pass
16	0.1317	0.1317	100.0	Pass
17	0.1723	0.1723	100.0	Pass
18	0.1967	0.1967	100.0	Pass

19	0.1123	0.1123	100.0	Pass
20	0.1054	0.1054	100.0	Pass
21	0.1715	0.1715	100.0	Pass
22	0.1448	0.1448	100.0	Pass
23	0.1284	0.1284	100.0	Pass
24	0.1041	0.1041	100.0	Pass
25	0.1224	0.1224	100.0	Pass
26	0.2049	0.2049	100.0	Pass
27	0.1616	0.1616	100.0	Pass
28	0.1687	0.1687	100.0	Pass
29	0.0856	0.0856	100.0	Pass
30	0.1076	0.1076	100.0	Pass
May1	0.1634	0.1634	100.0	Pass
2	0.1224	0.1224	100.0	Pass
3	0.1288	0.1288	100.0	Pass
4	0.1035	0.1035	100.0	Pass
5	0.0987	0.0987	100.0	Pass
6	0.0832	0.0832	100.0	Pass
7	0.1088	0.1088	100.0	Pass
8	0.0685	0.0685	100.0	Pass
9	0.0931	0.0931	100.0	Pass
10	0.0749	0.0749	100.0	Pass
11	0.0701	0.0701	100.0	Pass
12	0.0997	0.0997	100.0	Pass
13	0.1072	0.1072	100.0	Pass
14	0.1048	0.1048	100.0	Pass
15	0.0725	0.0725	100.0	Pass
16	0.0911	0.0911	100.0	Pass
17	0.0756	0.0756	100.0	Pass
18	0.1193	0.1193	100.0	Pass
19	0.0650	0.0650	100.0	Pass
20	0.0621	0.0621	100.0	Pass
21	0.0634	0.0634	100.0	Pass
22	0.0768	0.0768	100.0	Pass
23	0.0684	0.0684	100.0	Pass
24	0.0719	0.0719	100.0	Pass
25	0.0606	0.0606	100.0	Pass
26	0.1034	0.1034	100.0	Pass
27	0.0823	0.0823	100.0	Pass
28	0.0884	0.0884	100.0	Pass
29	0.1206	0.1206	100.0	Pass
30	0.0794	0.0794	100.0	Pass
31	0.0864	0.0864	100.0	Pass
Jun1	0.0660	0.0660	100.0	Pass
2	0.1041	0.1041	100.0	Pass
3	0.0989	0.0989	100.0	Pass
4	0.0721	0.0721	100.0	Pass
5	0.1186	0.1186	100.0	Pass
6	0.0472	0.0472	100.0	Pass
7	0.0702	0.0702	100.0	Pass
8	0.0976	0.0976	100.0	Pass
9	0.0740	0.0740	100.0	Pass
10	0.0695	0.0695	100.0	Pass
11	0.0509	0.0509	100.0	Pass
12	0.0608	0.0608	100.0	Pass
13	0.0970	0.0970	100.0	Pass
14	0.0415	0.0415	100.0	Pass

15	0.0801	0.0801	100.0	Pass
16	0.0367	0.0367	100.0	Pass
17	0.0502	0.0502	100.0	Pass
18	0.0350	0.0350	100.0	Pass
19	0.0400	0.0400	100.0	Pass
20	0.0432	0.0432	100.0	Pass
21	0.0438	0.0438	100.0	Pass
22	0.0244	0.0244	100.0	Pass
23	0.1198	0.1198	100.0	Pass
24	0.0348	0.0348	100.0	Pass
25	0.0543	0.0543	100.0	Pass
26	0.0325	0.0325	100.0	Pass
27	0.0289	0.0289	100.0	Pass
28	0.0296	0.0296	100.0	Pass
29	0.0388	0.0388	100.0	Pass
30	0.0848	0.0848	100.0	Pass
Jul1	0.0223	0.0223	100.0	Pass
2	0.0185	0.0185	100.0	Pass
3	0.0198	0.0198	100.0	Pass
4	0.0472	0.0472	100.0	Pass
5	0.0355	0.0355	100.0	Pass
6	0.0270	0.0270	100.0	Pass
7	0.0529	0.0529	100.0	Pass
8	0.0308	0.0308	100.0	Pass
9	0.0626	0.0626	100.0	Pass
10	0.0415	0.0415	100.0	Pass
11	0.0852	0.0852	100.0	Pass
12	0.0461	0.0461	100.0	Pass
13	0.0334	0.0334	100.0	Pass
14	0.0492	0.0492	100.0	Pass
15	0.0202	0.0202	100.0	Pass
16	0.0127	0.0127	100.0	Pass
17	0.0417	0.0417	100.0	Pass
18	0.0149	0.0149	100.0	Pass
19	0.0176	0.0176	100.0	Pass
20	0.0300	0.0300	100.0	Pass
21	0.0244	0.0244	100.0	Pass
22	0.0028	0.0028	100.0	Pass
23	0.0070	0.0070	100.0	Pass
24	0.0078	0.0078	100.0	Pass
25	0.0171	0.0171	100.0	Pass
26	0.0071	0.0071	100.0	Pass
27	0.0107	0.0107	100.0	Pass
28	0.0089	0.0089	100.0	Pass
29	0.0058	0.0058	100.0	Pass
30	0.0099	0.0099	100.0	Pass
31	0.0115	0.0115	100.0	Pass
Aug1	0.0472	0.0472	100.0	Pass
2	0.0170	0.0170	100.0	Pass
3	0.0067	0.0067	100.0	Pass
4	0.0065	0.0065	100.0	Pass
5	0.0540	0.0540	100.0	Pass
6	0.0368	0.0368	100.0	Pass
7	0.0136	0.0136	100.0	Pass
8	0.0135	0.0135	100.0	Pass
9	0.0012	0.0012	100.0	Pass
10	0.0070	0.0070	100.0	Pass

11	0.0343	0.0343	100.0	Pass
12	0.0295	0.0295	100.0	Pass
13	0.0373	0.0373	100.0	Pass
14	0.0234	0.0234	100.0	Pass
15	0.0214	0.0214	100.0	Pass
16	0.0179	0.0179	100.0	Pass
17	0.0341	0.0341	100.0	Pass
18	0.0658	0.0658	100.0	Pass
19	0.0194	0.0194	100.0	Pass
20	0.0513	0.0513	100.0	Pass
21	0.0480	0.0480	100.0	Pass
22	0.0930	0.0930	100.0	Pass
23	0.0888	0.0888	100.0	Pass
24	0.0796	0.0796	100.0	Pass
25	0.0337	0.0337	100.0	Pass
26	0.0905	0.0905	100.0	Pass
27	0.0933	0.0933	100.0	Pass
28	0.0947	0.0947	100.0	Pass
29	0.0601	0.0601	100.0	Pass
30	0.0939	0.0939	100.0	Pass
31	0.1503	0.1503	100.0	Pass
Sep1	0.0628	0.0628	100.0	Pass
2	0.0620	0.0620	100.0	Pass
3	0.0657	0.0657	100.0	Pass
4	0.0810	0.0810	100.0	Pass
5	0.0699	0.0699	100.0	Pass
6	0.0485	0.0485	100.0	Pass
7	0.0912	0.0912	100.0	Pass
8	0.0597	0.0597	100.0	Pass
9	0.1478	0.1478	100.0	Pass
10	0.0374	0.0374	100.0	Pass
11	0.0306	0.0306	100.0	Pass
12	0.0781	0.0781	100.0	Pass
13	0.1474	0.1474	100.0	Pass
14	0.0967	0.0967	100.0	Pass
15	0.1440	0.1440	100.0	Pass
16	0.1565	0.1565	100.0	Pass
17	0.1683	0.1683	100.0	Pass
18	0.1520	0.1520	100.0	Pass
19	0.1643	0.1643	100.0	Pass
20	0.1233	0.1233	100.0	Pass
21	0.1682	0.1682	100.0	Pass
22	0.1358	0.1358	100.0	Pass
23	0.1068	0.1068	100.0	Pass
24	0.0767	0.0767	100.0	Pass
25	0.0793	0.0793	100.0	Pass
26	0.0801	0.0801	100.0	Pass
27	0.1098	0.1098	100.0	Pass
28	0.0948	0.0948	100.0	Pass
29	0.1242	0.1242	100.0	Pass
30	0.0923	0.0923	100.0	Pass
Oct1	0.0657	0.0657	100.0	Pass
2	0.1577	0.1577	100.0	Pass
3	0.1426	0.1426	100.0	Pass
4	0.1758	0.1758	100.0	Pass
5	0.1875	0.1875	100.0	Pass
6	0.2067	0.2067	100.0	Pass

7	0.2656	0.2656	100.0	Pass
8	0.2200	0.2200	100.0	Pass
9	0.1726	0.1726	100.0	Pass
10	0.1415	0.1415	100.0	Pass
11	0.2580	0.2580	100.0	Pass
12	0.1784	0.1784	100.0	Pass
13	0.2432	0.2432	100.0	Pass
14	0.1458	0.1458	100.0	Pass
15	0.1679	0.1679	100.0	Pass
16	0.2252	0.2252	100.0	Pass
17	0.2070	0.2070	100.0	Pass
18	0.3286	0.3286	100.0	Pass
19	0.4074	0.4074	100.0	Pass
20	0.3537	0.3537	100.0	Pass
21	0.4263	0.4263	100.0	Pass
22	0.2622	0.2622	100.0	Pass
23	0.4153	0.4153	100.0	Pass
24	0.3683	0.3683	100.0	Pass
25	0.3317	0.3317	100.0	Pass
26	0.3970	0.3970	100.0	Pass
27	0.3430	0.3430	100.0	Pass
28	0.3187	0.3187	100.0	Pass
29	0.2720	0.2720	100.0	Pass
30	0.3899	0.3899	100.0	Pass
31	0.3365	0.3365	100.0	Pass
Nov1	0.4204	0.4204	100.0	Pass
2	0.5012	0.5012	100.0	Pass
3	0.4032	0.4032	100.0	Pass
4	0.4032	0.4032	100.0	Pass
5	0.4450	0.4450	100.0	Pass
6	0.3780	0.3780	100.0	Pass
7	0.3422	0.3422	100.0	Pass
8	0.4312	0.4312	100.0	Pass
9	0.5105	0.5105	100.0	Pass
10	0.4433	0.4433	100.0	Pass
11	0.4926	0.4926	100.0	Pass
12	0.4560	0.4560	100.0	Pass
13	0.3518	0.3518	100.0	Pass
14	0.4009	0.4009	100.0	Pass
15	0.4489	0.4489	100.0	Pass
16	0.4683	0.4683	100.0	Pass
17	0.4323	0.4323	100.0	Pass
18	0.6256	0.6256	100.0	Pass
19	0.5683	0.5683	100.0	Pass
20	0.3872	0.3872	100.0	Pass
21	0.5864	0.5864	100.0	Pass
22	0.6867	0.6867	100.0	Pass
23	0.5395	0.5395	100.0	Pass
24	0.6096	0.6096	100.0	Pass
25	0.4160	0.4160	100.0	Pass
26	0.3379	0.3379	100.0	Pass
27	0.3969	0.3969	100.0	Pass
28	0.3794	0.3794	100.0	Pass
29	0.6167	0.6167	100.0	Pass
30	0.5059	0.5059	100.0	Pass
Dec1	0.5534	0.5534	100.0	Pass
2	0.5408	0.5408	100.0	Pass

3	0.3562	0.3562	100.0	Pass
4	0.3851	0.3851	100.0	Pass
5	0.3347	0.3347	100.0	Pass
6	0.2881	0.2881	100.0	Pass
7	0.4045	0.4045	100.0	Pass
8	0.5075	0.5075	100.0	Pass
9	0.5103	0.5103	100.0	Pass
10	0.5523	0.5523	100.0	Pass
11	0.4096	0.4096	100.0	Pass
12	0.4381	0.4381	100.0	Pass
13	0.6379	0.6379	100.0	Pass
14	0.4602	0.4602	100.0	Pass
15	0.5848	0.5848	100.0	Pass
16	0.4084	0.4084	100.0	Pass
17	0.4746	0.4746	100.0	Pass
18	0.3947	0.3947	100.0	Pass
19	0.4542	0.4542	100.0	Pass
20	0.4501	0.4501	100.0	Pass
21	0.4954	0.4954	100.0	Pass
22	0.4863	0.4863	100.0	Pass
23	0.5266	0.5266	100.0	Pass
24	0.5796	0.5796	100.0	Pass
25	0.5133	0.5133	100.0	Pass
26	0.4694	0.4694	100.0	Pass
27	0.3206	0.3206	100.0	Pass
28	0.4864	0.4864	100.0	Pass
29	0.3334	0.3334	100.0	Pass
30	0.3408	0.3408	100.0	Pass
31	0.5614	0.5614	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #14
Total Pervious Area:0.159
Total Impervious Area:0.338

Mitigated Landuse Totals for POC #14
Total Pervious Area:0.159
Total Impervious Area:0.338

Flow Frequency Return Periods for Predeveloped. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.274476
5 year	0.332538
10 year	0.364405
25 year	0.399183
50 year	0.421943
100 year	0.442525

Flow Frequency Return Periods for Mitigated. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.274476
5 year	0.332538
10 year	0.364405
25 year	0.399183
50 year	0.421943
100 year	0.442525

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #14

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.303	0.303
1957	0.360	0.360
1958	0.269	0.269
1959	0.288	0.288
1960	0.301	0.301
1961	0.220	0.220
1962	0.397	0.397
1963	0.359	0.359
1964	0.300	0.300
1965	0.305	0.305
1966	0.306	0.306
1967	0.183	0.183
1968	0.288	0.288
1969	0.280	0.280
1970	0.245	0.245
1971	0.403	0.403
1972	0.346	0.346
1973	0.305	0.305
1974	0.307	0.307
1975	0.265	0.265
1976	0.327	0.327
1977	0.230	0.230
1978	0.403	0.403
1979	0.256	0.256
1980	0.231	0.231
1981	0.294	0.294
1982	0.339	0.339
1983	0.268	0.268
1984	0.257	0.257
1985	0.177	0.177
1986	0.306	0.306
1987	0.212	0.212
1988	0.327	0.327
1989	0.267	0.267
1990	0.363	0.363
1991	0.218	0.218
1992	0.171	0.171
1993	0.189	0.189
1994	0.258	0.258
1995	0.227	0.227
1996	0.281	0.281
1997	0.295	0.295
1998	0.180	0.180
1999	0.233	0.233
2000	0.213	0.213

2001	0.197	0.197
2002	0.286	0.286
2003	0.391	0.391
2004	0.356	0.356
2005	0.276	0.276
2006	0.284	0.284
2007	0.339	0.339
2008	0.164	0.164
2009	0.153	0.153

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #14

Rank	Predeveloped	Mitigated
1	0.4035	0.4035
2	0.4025	0.4025
3	0.3969	0.3969
4	0.3905	0.3905
5	0.3627	0.3627
6	0.3604	0.3604
7	0.3585	0.3585
8	0.3564	0.3564
9	0.3458	0.3458
10	0.3392	0.3392
11	0.3390	0.3390
12	0.3269	0.3269
13	0.3268	0.3268
14	0.3068	0.3068
15	0.3061	0.3061
16	0.3056	0.3056
17	0.3047	0.3047
18	0.3047	0.3047
19	0.3033	0.3033
20	0.3015	0.3015
21	0.3003	0.3003
22	0.2945	0.2945
23	0.2942	0.2942
24	0.2879	0.2879
25	0.2876	0.2876
26	0.2863	0.2863
27	0.2844	0.2844
28	0.2814	0.2814
29	0.2798	0.2798
30	0.2762	0.2762
31	0.2693	0.2693
32	0.2684	0.2684
33	0.2666	0.2666
34	0.2647	0.2647
35	0.2576	0.2576
36	0.2567	0.2567
37	0.2560	0.2560
38	0.2449	0.2449
39	0.2329	0.2329
40	0.2314	0.2314
41	0.2298	0.2298
42	0.2270	0.2270
43	0.2199	0.2199

44	0.2184	0.2184
45	0.2134	0.2134
46	0.2116	0.2116
47	0.1968	0.1968
48	0.1888	0.1888
49	0.1829	0.1829
50	0.1799	0.1799
51	0.1774	0.1774
52	0.1709	0.1709
53	0.1642	0.1642
54	0.1532	0.1532

Stream Protection Duration

POC #14

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1372	940	940	100	Pass
0.1401	864	864	100	Pass
0.1430	817	817	100	Pass
0.1459	766	766	100	Pass
0.1487	711	711	100	Pass
0.1516	653	653	100	Pass
0.1545	597	597	100	Pass
0.1574	569	569	100	Pass
0.1602	526	526	100	Pass
0.1631	482	482	100	Pass
0.1660	460	460	100	Pass
0.1689	424	424	100	Pass
0.1717	397	397	100	Pass
0.1746	376	376	100	Pass
0.1775	352	352	100	Pass
0.1804	327	327	100	Pass
0.1833	301	301	100	Pass
0.1861	278	278	100	Pass
0.1890	260	260	100	Pass
0.1919	247	247	100	Pass
0.1948	225	225	100	Pass
0.1976	218	218	100	Pass
0.2005	209	209	100	Pass
0.2034	196	196	100	Pass
0.2063	185	185	100	Pass
0.2091	176	176	100	Pass
0.2120	166	166	100	Pass
0.2149	154	154	100	Pass
0.2178	150	150	100	Pass
0.2206	139	139	100	Pass
0.2235	136	136	100	Pass
0.2264	130	130	100	Pass
0.2293	123	123	100	Pass
0.2321	111	111	100	Pass
0.2350	106	106	100	Pass
0.2379	101	101	100	Pass
0.2408	96	96	100	Pass

0.2436	94	94	100	Pass
0.2465	90	90	100	Pass
0.2494	86	86	100	Pass
0.2523	81	81	100	Pass
0.2551	80	80	100	Pass
0.2580	72	72	100	Pass
0.2609	71	71	100	Pass
0.2638	67	67	100	Pass
0.2666	64	64	100	Pass
0.2695	59	59	100	Pass
0.2724	52	52	100	Pass
0.2753	51	51	100	Pass
0.2782	50	50	100	Pass
0.2810	48	48	100	Pass
0.2839	47	47	100	Pass
0.2868	44	44	100	Pass
0.2897	41	41	100	Pass
0.2925	40	40	100	Pass
0.2954	35	35	100	Pass
0.2983	35	35	100	Pass
0.3012	34	34	100	Pass
0.3040	31	31	100	Pass
0.3069	28	28	100	Pass
0.3098	24	24	100	Pass
0.3127	24	24	100	Pass
0.3155	24	24	100	Pass
0.3184	23	23	100	Pass
0.3213	21	21	100	Pass
0.3242	20	20	100	Pass
0.3270	17	17	100	Pass
0.3299	16	16	100	Pass
0.3328	15	15	100	Pass
0.3357	15	15	100	Pass
0.3385	14	14	100	Pass
0.3414	12	12	100	Pass
0.3443	11	11	100	Pass
0.3472	10	10	100	Pass
0.3500	10	10	100	Pass
0.3529	10	10	100	Pass
0.3558	10	10	100	Pass
0.3587	9	9	100	Pass
0.3616	7	7	100	Pass
0.3644	6	6	100	Pass
0.3673	6	6	100	Pass
0.3702	6	6	100	Pass
0.3731	5	5	100	Pass
0.3759	5	5	100	Pass
0.3788	5	5	100	Pass
0.3817	5	5	100	Pass
0.3846	4	4	100	Pass
0.3874	4	4	100	Pass
0.3903	4	4	100	Pass
0.3932	3	3	100	Pass
0.3961	3	3	100	Pass
0.3989	2	2	100	Pass
0.4018	2	2	100	Pass
0.4047	0	0	100	Pass

0.4076	0	0	0	Pass
0.4104	0	0	0	Pass
0.4133	0	0	0	Pass
0.4162	0	0	0	Pass
0.4191	0	0	0	Pass
0.4219	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #14
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 14
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	18.4275	18.4275	100.0	Pass
Feb	14.1438	14.1438	100.0	Pass
Mar	12.4969	12.4969	100.0	Pass
Apr	6.8762	6.8762	100.0	Pass
May	3.5491	3.5491	100.0	Pass
Jun	2.3119	2.3119	100.0	Pass
Jul	1.1209	1.1209	100.0	Pass
Aug	1.6586	1.6586	100.0	Pass
Sep	3.8969	3.8969	100.0	Pass
Oct	9.8483	9.8483	100.0	Pass
Nov	17.2946	17.2946	100.0	Pass
Dec	17.7797	17.7797	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.5893	0.5893	100.0	Pass
2	0.4715	0.4715	100.0	Pass
3	0.5876	0.5876	100.0	Pass
4	0.6819	0.6819	100.0	Pass
5	0.5132	0.5132	100.0	Pass
6	0.7434	0.7434	100.0	Pass
7	0.5951	0.5951	100.0	Pass
8	0.5931	0.5931	100.0	Pass
9	0.6253	0.6253	100.0	Pass
10	0.6145	0.6145	100.0	Pass
11	0.7434	0.7434	100.0	Pass
12	0.5977	0.5977	100.0	Pass
13	0.7365	0.7365	100.0	Pass
14	0.7398	0.7398	100.0	Pass
15	0.6799	0.6799	100.0	Pass
16	0.5690	0.5690	100.0	Pass
17	0.5417	0.5417	100.0	Pass
18	0.4787	0.4787	100.0	Pass
19	0.4717	0.4717	100.0	Pass
20	0.3207	0.3207	100.0	Pass
21	0.5675	0.5675	100.0	Pass
22	0.7008	0.7008	100.0	Pass

23	0.7911	0.7911	100.0	Pass
24	0.5601	0.5601	100.0	Pass
25	0.4754	0.4754	100.0	Pass
26	0.4290	0.4290	100.0	Pass
27	0.5236	0.5236	100.0	Pass
28	0.6615	0.6615	100.0	Pass
29	0.5205	0.5205	100.0	Pass
30	0.6024	0.6024	100.0	Pass
31	0.3798	0.3798	100.0	Pass
Feb1	0.4200	0.4200	100.0	Pass
2	0.3808	0.3808	100.0	Pass
3	0.3467	0.3467	100.0	Pass
4	0.3212	0.3212	100.0	Pass
5	0.5680	0.5680	100.0	Pass
6	0.3102	0.3102	100.0	Pass
7	0.4257	0.4257	100.0	Pass
8	0.3314	0.3314	100.0	Pass
9	0.3876	0.3876	100.0	Pass
10	0.5109	0.5109	100.0	Pass
11	0.6779	0.6779	100.0	Pass
12	0.5469	0.5469	100.0	Pass
13	0.5779	0.5779	100.0	Pass
14	0.7933	0.7933	100.0	Pass
15	0.6038	0.6038	100.0	Pass
16	0.7673	0.7673	100.0	Pass
17	0.6868	0.6868	100.0	Pass
18	0.5563	0.5563	100.0	Pass
19	0.4816	0.4816	100.0	Pass
20	0.4606	0.4606	100.0	Pass
21	0.3776	0.3776	100.0	Pass
22	0.5359	0.5359	100.0	Pass
23	0.5144	0.5144	100.0	Pass
24	0.5654	0.5654	100.0	Pass
25	0.5114	0.5114	100.0	Pass
26	0.5059	0.5059	100.0	Pass
27	0.4453	0.4453	100.0	Pass
28	0.5559	0.5559	100.0	Pass
29	0.4254	0.4254	100.0	Pass
Mar1	0.4166	0.4166	100.0	Pass
2	0.3450	0.3450	100.0	Pass
3	0.4725	0.4725	100.0	Pass
4	0.4975	0.4975	100.0	Pass
5	0.3972	0.3972	100.0	Pass
6	0.4977	0.4977	100.0	Pass
7	0.4844	0.4844	100.0	Pass
8	0.4748	0.4748	100.0	Pass
9	0.4762	0.4762	100.0	Pass
10	0.4197	0.4197	100.0	Pass
11	0.4511	0.4511	100.0	Pass
12	0.4005	0.4005	100.0	Pass
13	0.4804	0.4804	100.0	Pass
14	0.3880	0.3880	100.0	Pass
15	0.3173	0.3173	100.0	Pass
16	0.3022	0.3022	100.0	Pass
17	0.4050	0.4050	100.0	Pass
18	0.2559	0.2559	100.0	Pass
19	0.3683	0.3683	100.0	Pass

20	0.3016	0.3016	100.0	Pass
21	0.4939	0.4939	100.0	Pass
22	0.5569	0.5569	100.0	Pass
23	0.4739	0.4739	100.0	Pass
24	0.3153	0.3153	100.0	Pass
25	0.4592	0.4592	100.0	Pass
26	0.3451	0.3451	100.0	Pass
27	0.3248	0.3248	100.0	Pass
28	0.3640	0.3640	100.0	Pass
29	0.3331	0.3331	100.0	Pass
30	0.2544	0.2544	100.0	Pass
31	0.2048	0.2048	100.0	Pass
Apr1	0.2150	0.2150	100.0	Pass
2	0.2390	0.2390	100.0	Pass
3	0.3210	0.3210	100.0	Pass
4	0.2973	0.2973	100.0	Pass
5	0.3233	0.3233	100.0	Pass
6	0.1805	0.1805	100.0	Pass
7	0.2821	0.2821	100.0	Pass
8	0.2884	0.2884	100.0	Pass
9	0.2547	0.2547	100.0	Pass
10	0.2553	0.2553	100.0	Pass
11	0.3394	0.3394	100.0	Pass
12	0.2983	0.2983	100.0	Pass
13	0.3088	0.3088	100.0	Pass
14	0.2671	0.2671	100.0	Pass
15	0.2854	0.2854	100.0	Pass
16	0.1649	0.1649	100.0	Pass
17	0.2157	0.2157	100.0	Pass
18	0.2463	0.2463	100.0	Pass
19	0.1406	0.1406	100.0	Pass
20	0.1319	0.1319	100.0	Pass
21	0.2148	0.2148	100.0	Pass
22	0.1812	0.1812	100.0	Pass
23	0.1607	0.1607	100.0	Pass
24	0.1303	0.1303	100.0	Pass
25	0.1532	0.1532	100.0	Pass
26	0.2565	0.2565	100.0	Pass
27	0.2023	0.2023	100.0	Pass
28	0.2112	0.2112	100.0	Pass
29	0.1072	0.1072	100.0	Pass
30	0.1347	0.1347	100.0	Pass
May1	0.2046	0.2046	100.0	Pass
2	0.1532	0.1532	100.0	Pass
3	0.1612	0.1612	100.0	Pass
4	0.1295	0.1295	100.0	Pass
5	0.1235	0.1235	100.0	Pass
6	0.1041	0.1041	100.0	Pass
7	0.1362	0.1362	100.0	Pass
8	0.0857	0.0857	100.0	Pass
9	0.1165	0.1165	100.0	Pass
10	0.0938	0.0938	100.0	Pass
11	0.0878	0.0878	100.0	Pass
12	0.1249	0.1249	100.0	Pass
13	0.1342	0.1342	100.0	Pass
14	0.1312	0.1312	100.0	Pass
15	0.0907	0.0907	100.0	Pass

16	0.1140	0.1140	100.0	Pass
17	0.0946	0.0946	100.0	Pass
18	0.1494	0.1494	100.0	Pass
19	0.0814	0.0814	100.0	Pass
20	0.0777	0.0777	100.0	Pass
21	0.0794	0.0794	100.0	Pass
22	0.0962	0.0962	100.0	Pass
23	0.0856	0.0856	100.0	Pass
24	0.0900	0.0900	100.0	Pass
25	0.0759	0.0759	100.0	Pass
26	0.1295	0.1295	100.0	Pass
27	0.1030	0.1030	100.0	Pass
28	0.1107	0.1107	100.0	Pass
29	0.1509	0.1509	100.0	Pass
30	0.0993	0.0993	100.0	Pass
31	0.1081	0.1081	100.0	Pass
Jun1	0.0826	0.0826	100.0	Pass
2	0.1304	0.1304	100.0	Pass
3	0.1238	0.1238	100.0	Pass
4	0.0902	0.0902	100.0	Pass
5	0.1484	0.1484	100.0	Pass
6	0.0591	0.0591	100.0	Pass
7	0.0878	0.0878	100.0	Pass
8	0.1222	0.1222	100.0	Pass
9	0.0926	0.0926	100.0	Pass
10	0.0870	0.0870	100.0	Pass
11	0.0638	0.0638	100.0	Pass
12	0.0762	0.0762	100.0	Pass
13	0.1215	0.1215	100.0	Pass
14	0.0520	0.0520	100.0	Pass
15	0.1002	0.1002	100.0	Pass
16	0.0459	0.0459	100.0	Pass
17	0.0628	0.0628	100.0	Pass
18	0.0438	0.0438	100.0	Pass
19	0.0501	0.0501	100.0	Pass
20	0.0540	0.0540	100.0	Pass
21	0.0548	0.0548	100.0	Pass
22	0.0306	0.0306	100.0	Pass
23	0.1499	0.1499	100.0	Pass
24	0.0436	0.0436	100.0	Pass
25	0.0679	0.0679	100.0	Pass
26	0.0407	0.0407	100.0	Pass
27	0.0362	0.0362	100.0	Pass
28	0.0371	0.0371	100.0	Pass
29	0.0486	0.0486	100.0	Pass
30	0.1062	0.1062	100.0	Pass
Jul1	0.0279	0.0279	100.0	Pass
2	0.0232	0.0232	100.0	Pass
3	0.0247	0.0247	100.0	Pass
4	0.0590	0.0590	100.0	Pass
5	0.0445	0.0445	100.0	Pass
6	0.0338	0.0338	100.0	Pass
7	0.0662	0.0662	100.0	Pass
8	0.0386	0.0386	100.0	Pass
9	0.0783	0.0783	100.0	Pass
10	0.0519	0.0519	100.0	Pass
11	0.1067	0.1067	100.0	Pass

12	0.0578	0.0578	100.0	Pass
13	0.0418	0.0418	100.0	Pass
14	0.0616	0.0616	100.0	Pass
15	0.0253	0.0253	100.0	Pass
16	0.0159	0.0159	100.0	Pass
17	0.0522	0.0522	100.0	Pass
18	0.0187	0.0187	100.0	Pass
19	0.0220	0.0220	100.0	Pass
20	0.0376	0.0376	100.0	Pass
21	0.0306	0.0306	100.0	Pass
22	0.0035	0.0035	100.0	Pass
23	0.0088	0.0088	100.0	Pass
24	0.0098	0.0098	100.0	Pass
25	0.0215	0.0215	100.0	Pass
26	0.0089	0.0089	100.0	Pass
27	0.0134	0.0134	100.0	Pass
28	0.0111	0.0111	100.0	Pass
29	0.0072	0.0072	100.0	Pass
30	0.0124	0.0124	100.0	Pass
31	0.0144	0.0144	100.0	Pass
Aug1	0.0591	0.0591	100.0	Pass
2	0.0212	0.0212	100.0	Pass
3	0.0084	0.0084	100.0	Pass
4	0.0082	0.0082	100.0	Pass
5	0.0676	0.0676	100.0	Pass
6	0.0460	0.0460	100.0	Pass
7	0.0171	0.0171	100.0	Pass
8	0.0169	0.0169	100.0	Pass
9	0.0015	0.0015	100.0	Pass
10	0.0087	0.0087	100.0	Pass
11	0.0430	0.0430	100.0	Pass
12	0.0369	0.0369	100.0	Pass
13	0.0467	0.0467	100.0	Pass
14	0.0294	0.0294	100.0	Pass
15	0.0267	0.0267	100.0	Pass
16	0.0225	0.0225	100.0	Pass
17	0.0427	0.0427	100.0	Pass
18	0.0823	0.0823	100.0	Pass
19	0.0242	0.0242	100.0	Pass
20	0.0643	0.0643	100.0	Pass
21	0.0601	0.0601	100.0	Pass
22	0.1164	0.1164	100.0	Pass
23	0.1112	0.1112	100.0	Pass
24	0.0997	0.0997	100.0	Pass
25	0.0422	0.0422	100.0	Pass
26	0.1132	0.1132	100.0	Pass
27	0.1169	0.1169	100.0	Pass
28	0.1186	0.1186	100.0	Pass
29	0.0753	0.0753	100.0	Pass
30	0.1175	0.1175	100.0	Pass
31	0.1881	0.1881	100.0	Pass
Sep1	0.0786	0.0786	100.0	Pass
2	0.0776	0.0776	100.0	Pass
3	0.0823	0.0823	100.0	Pass
4	0.1014	0.1014	100.0	Pass
5	0.0875	0.0875	100.0	Pass
6	0.0607	0.0607	100.0	Pass

7	0.1142	0.1142	100.0	Pass
8	0.0747	0.0747	100.0	Pass
9	0.1850	0.1850	100.0	Pass
10	0.0469	0.0469	100.0	Pass
11	0.0383	0.0383	100.0	Pass
12	0.0978	0.0978	100.0	Pass
13	0.1846	0.1846	100.0	Pass
14	0.1210	0.1210	100.0	Pass
15	0.1803	0.1803	100.0	Pass
16	0.1959	0.1959	100.0	Pass
17	0.2106	0.2106	100.0	Pass
18	0.1903	0.1903	100.0	Pass
19	0.2056	0.2056	100.0	Pass
20	0.1543	0.1543	100.0	Pass
21	0.2106	0.2106	100.0	Pass
22	0.1700	0.1700	100.0	Pass
23	0.1337	0.1337	100.0	Pass
24	0.0961	0.0961	100.0	Pass
25	0.0993	0.0993	100.0	Pass
26	0.1002	0.1002	100.0	Pass
27	0.1375	0.1375	100.0	Pass
28	0.1187	0.1187	100.0	Pass
29	0.1555	0.1555	100.0	Pass
30	0.1156	0.1156	100.0	Pass
Oct1	0.0823	0.0823	100.0	Pass
2	0.1975	0.1975	100.0	Pass
3	0.1785	0.1785	100.0	Pass
4	0.2201	0.2201	100.0	Pass
5	0.2347	0.2347	100.0	Pass
6	0.2588	0.2588	100.0	Pass
7	0.3325	0.3325	100.0	Pass
8	0.2754	0.2754	100.0	Pass
9	0.2160	0.2160	100.0	Pass
10	0.1771	0.1771	100.0	Pass
11	0.3230	0.3230	100.0	Pass
12	0.2234	0.2234	100.0	Pass
13	0.3044	0.3044	100.0	Pass
14	0.1825	0.1825	100.0	Pass
15	0.2102	0.2102	100.0	Pass
16	0.2819	0.2819	100.0	Pass
17	0.2591	0.2591	100.0	Pass
18	0.4113	0.4113	100.0	Pass
19	0.5101	0.5101	100.0	Pass
20	0.4428	0.4428	100.0	Pass
21	0.5337	0.5337	100.0	Pass
22	0.3282	0.3282	100.0	Pass
23	0.5200	0.5200	100.0	Pass
24	0.4611	0.4611	100.0	Pass
25	0.4152	0.4152	100.0	Pass
26	0.4970	0.4970	100.0	Pass
27	0.4294	0.4294	100.0	Pass
28	0.3990	0.3990	100.0	Pass
29	0.3405	0.3405	100.0	Pass
30	0.4882	0.4882	100.0	Pass
31	0.4212	0.4212	100.0	Pass
Nov1	0.5263	0.5263	100.0	Pass
2	0.6274	0.6274	100.0	Pass

3	0.5048	0.5048	100.0	Pass
4	0.5047	0.5047	100.0	Pass
5	0.5571	0.5571	100.0	Pass
6	0.4733	0.4733	100.0	Pass
7	0.4283	0.4283	100.0	Pass
8	0.5398	0.5398	100.0	Pass
9	0.6391	0.6391	100.0	Pass
10	0.5550	0.5550	100.0	Pass
11	0.6167	0.6167	100.0	Pass
12	0.5709	0.5709	100.0	Pass
13	0.4404	0.4404	100.0	Pass
14	0.5019	0.5019	100.0	Pass
15	0.5619	0.5619	100.0	Pass
16	0.5862	0.5862	100.0	Pass
17	0.5411	0.5411	100.0	Pass
18	0.7832	0.7832	100.0	Pass
19	0.7114	0.7114	100.0	Pass
20	0.4847	0.4847	100.0	Pass
21	0.7341	0.7341	100.0	Pass
22	0.8596	0.8596	100.0	Pass
23	0.6754	0.6754	100.0	Pass
24	0.7632	0.7632	100.0	Pass
25	0.5208	0.5208	100.0	Pass
26	0.4230	0.4230	100.0	Pass
27	0.4969	0.4969	100.0	Pass
28	0.4749	0.4749	100.0	Pass
29	0.7721	0.7721	100.0	Pass
30	0.6334	0.6334	100.0	Pass
Dec1	0.6928	0.6928	100.0	Pass
2	0.6770	0.6770	100.0	Pass
3	0.4459	0.4459	100.0	Pass
4	0.4821	0.4821	100.0	Pass
5	0.4191	0.4191	100.0	Pass
6	0.3606	0.3606	100.0	Pass
7	0.5064	0.5064	100.0	Pass
8	0.6354	0.6354	100.0	Pass
9	0.6388	0.6388	100.0	Pass
10	0.6915	0.6915	100.0	Pass
11	0.5128	0.5128	100.0	Pass
12	0.5484	0.5484	100.0	Pass
13	0.7985	0.7985	100.0	Pass
14	0.5761	0.5761	100.0	Pass
15	0.7321	0.7321	100.0	Pass
16	0.5113	0.5113	100.0	Pass
17	0.5942	0.5942	100.0	Pass
18	0.4941	0.4941	100.0	Pass
19	0.5686	0.5686	100.0	Pass
20	0.5634	0.5634	100.0	Pass
21	0.6202	0.6202	100.0	Pass
22	0.6088	0.6088	100.0	Pass
23	0.6592	0.6592	100.0	Pass
24	0.7256	0.7256	100.0	Pass
25	0.6427	0.6427	100.0	Pass
26	0.5876	0.5876	100.0	Pass
27	0.4013	0.4013	100.0	Pass
28	0.6089	0.6089	100.0	Pass
29	0.4173	0.4173	100.0	Pass

30	0.4266	0.4266	100.0	Pass
31	0.7028	0.7028	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #15
Total Pervious Area:0.083
Total Impervious Area:0.114

Mitigated Landuse Totals for POC #15
Total Pervious Area:0.083
Total Impervious Area:0.114

Flow Frequency Return Periods for Predeveloped. POC #15

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.102209
5 year	0.12546
10 year	0.138343
25 year	0.15249
50 year	0.161795
100 year	0.170239

Flow Frequency Return Periods for Mitigated. POC #15

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.102209
5 year	0.12546
10 year	0.138343
25 year	0.15249
50 year	0.161795
100 year	0.170239

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #15

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.116	0.116
1957	0.135	0.135
1958	0.099	0.099
1959	0.109	0.109
1960	0.115	0.115
1961	0.079	0.079
1962	0.152	0.152
1963	0.136	0.136
1964	0.112	0.112
1965	0.115	0.115
1966	0.117	0.117
1967	0.067	0.067
1968	0.108	0.108
1969	0.107	0.107
1970	0.089	0.089

1971	0.154	0.154
1972	0.133	0.133
1973	0.114	0.114
1974	0.117	0.117
1975	0.099	0.099
1976	0.124	0.124
1977	0.085	0.085
1978	0.151	0.151
1979	0.096	0.096
1980	0.086	0.086
1981	0.109	0.109
1982	0.126	0.126
1983	0.100	0.100
1984	0.097	0.097
1985	0.063	0.063
1986	0.115	0.115
1987	0.079	0.079
1988	0.123	0.123
1989	0.099	0.099
1990	0.138	0.138
1991	0.082	0.082
1992	0.062	0.062
1993	0.068	0.068
1994	0.096	0.096
1995	0.079	0.079
1996	0.100	0.100
1997	0.109	0.109
1998	0.065	0.065
1999	0.086	0.086
2000	0.079	0.079
2001	0.071	0.071
2002	0.098	0.098
2003	0.150	0.150
2004	0.135	0.135
2005	0.103	0.103
2006	0.107	0.107
2007	0.129	0.129
2008	0.059	0.059
2009	0.055	0.055

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #15

Rank	Predeveloped	Mitigated
1	0.1536	0.1536
2	0.1518	0.1518
3	0.1508	0.1508
4	0.1496	0.1496
5	0.1382	0.1382
6	0.1363	0.1363
7	0.1351	0.1351
8	0.1351	0.1351
9	0.1328	0.1328
10	0.1290	0.1290
11	0.1259	0.1259
12	0.1236	0.1236
13	0.1230	0.1230

14	0.1172	0.1172
15	0.1165	0.1165
16	0.1160	0.1160
17	0.1151	0.1151
18	0.1151	0.1151
19	0.1148	0.1148
20	0.1138	0.1138
21	0.1117	0.1117
22	0.1095	0.1095
23	0.1094	0.1094
24	0.1089	0.1089
25	0.1085	0.1085
26	0.1073	0.1073
27	0.1069	0.1069
28	0.1035	0.1035
29	0.1000	0.1000
30	0.0996	0.0996
31	0.0994	0.0994
32	0.0992	0.0992
33	0.0992	0.0992
34	0.0979	0.0979
35	0.0967	0.0967
36	0.0963	0.0963
37	0.0960	0.0960
38	0.0892	0.0892
39	0.0864	0.0864
40	0.0863	0.0863
41	0.0853	0.0853
42	0.0821	0.0821
43	0.0794	0.0794
44	0.0794	0.0794
45	0.0790	0.0790
46	0.0789	0.0789
47	0.0708	0.0708
48	0.0681	0.0681
49	0.0670	0.0670
50	0.0653	0.0653
51	0.0630	0.0630
52	0.0619	0.0619
53	0.0595	0.0595
54	0.0549	0.0549

Stream Protection Duration

POC #15

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0511	834	834	100	Pass
0.0522	777	777	100	Pass
0.0533	729	729	100	Pass
0.0545	680	680	100	Pass
0.0556	628	628	100	Pass
0.0567	586	586	100	Pass
0.0578	557	557	100	Pass

0.0589	507	507	100	Pass
0.0600	477	477	100	Pass
0.0612	438	438	100	Pass
0.0623	404	404	100	Pass
0.0634	381	381	100	Pass
0.0645	357	357	100	Pass
0.0656	339	339	100	Pass
0.0668	318	318	100	Pass
0.0679	288	288	100	Pass
0.0690	268	268	100	Pass
0.0701	248	248	100	Pass
0.0712	236	236	100	Pass
0.0723	220	220	100	Pass
0.0735	211	211	100	Pass
0.0746	200	200	100	Pass
0.0757	191	191	100	Pass
0.0768	178	178	100	Pass
0.0779	170	170	100	Pass
0.0791	160	160	100	Pass
0.0802	147	147	100	Pass
0.0813	142	142	100	Pass
0.0824	137	137	100	Pass
0.0835	131	131	100	Pass
0.0846	125	125	100	Pass
0.0858	120	120	100	Pass
0.0869	110	110	100	Pass
0.0880	107	107	100	Pass
0.0891	99	99	100	Pass
0.0902	96	96	100	Pass
0.0914	93	93	100	Pass
0.0925	88	88	100	Pass
0.0936	84	84	100	Pass
0.0947	81	81	100	Pass
0.0958	76	76	100	Pass
0.0969	72	72	100	Pass
0.0981	67	67	100	Pass
0.0992	65	65	100	Pass
0.1003	58	58	100	Pass
0.1014	55	55	100	Pass
0.1025	52	52	100	Pass
0.1037	48	48	100	Pass
0.1048	48	48	100	Pass
0.1059	48	48	100	Pass
0.1070	45	45	100	Pass
0.1081	44	44	100	Pass
0.1092	41	41	100	Pass
0.1104	38	38	100	Pass
0.1115	37	37	100	Pass
0.1126	34	34	100	Pass
0.1137	34	34	100	Pass
0.1148	32	32	100	Pass
0.1160	28	28	100	Pass
0.1171	26	26	100	Pass
0.1182	24	24	100	Pass
0.1193	24	24	100	Pass
0.1204	23	23	100	Pass
0.1215	21	21	100	Pass

0.1227	19	19	100	Pass
0.1238	17	17	100	Pass
0.1249	15	15	100	Pass
0.1260	14	14	100	Pass
0.1271	14	14	100	Pass
0.1283	13	13	100	Pass
0.1294	11	11	100	Pass
0.1305	11	11	100	Pass
0.1316	11	11	100	Pass
0.1327	11	11	100	Pass
0.1338	10	10	100	Pass
0.1350	10	10	100	Pass
0.1361	8	8	100	Pass
0.1372	7	7	100	Pass
0.1383	6	6	100	Pass
0.1394	6	6	100	Pass
0.1406	6	6	100	Pass
0.1417	6	6	100	Pass
0.1428	6	6	100	Pass
0.1439	5	5	100	Pass
0.1450	5	5	100	Pass
0.1461	4	4	100	Pass
0.1473	4	4	100	Pass
0.1484	4	4	100	Pass
0.1495	4	4	100	Pass
0.1506	3	3	100	Pass
0.1517	2	2	100	Pass
0.1529	1	1	100	Pass
0.1540	0	0	100	Pass
0.1551	0	0	0	Pass
0.1562	0	0	0	Pass
0.1573	0	0	0	Pass
0.1584	0	0	0	Pass
0.1596	0	0	0	Pass
0.1607	0	0	0	Pass
0.1618	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #15
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 15

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	7.1289	7.1289	100.0	Pass
Feb	5.4844	5.4844	100.0	Pass
Mar	4.8377	4.8377	100.0	Pass
Apr	2.6383	2.6383	100.0	Pass
May	1.3237	1.3237	100.0	Pass
Jun	0.8499	0.8499	100.0	Pass

Jul	0.4051	0.4051	100.0	Pass
Aug	0.5926	0.5926	100.0	Pass
Sep	1.4269	1.4269	100.0	Pass
Oct	3.6906	3.6906	100.0	Pass
Nov	6.6333	6.6333	100.0	Pass
Dec	6.8787	6.8787	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.2274	0.2274	100.0	Pass
2	0.1847	0.1847	100.0	Pass
3	0.2257	0.2257	100.0	Pass
4	0.2590	0.2590	100.0	Pass
5	0.2011	0.2011	100.0	Pass
6	0.2818	0.2818	100.0	Pass
7	0.2325	0.2325	100.0	Pass
8	0.2301	0.2301	100.0	Pass
9	0.2399	0.2399	100.0	Pass
10	0.2383	0.2383	100.0	Pass
11	0.2853	0.2853	100.0	Pass
12	0.2342	0.2342	100.0	Pass
13	0.2829	0.2829	100.0	Pass
14	0.2859	0.2859	100.0	Pass
15	0.2645	0.2645	100.0	Pass
16	0.2253	0.2253	100.0	Pass
17	0.2133	0.2133	100.0	Pass
18	0.1887	0.1887	100.0	Pass
19	0.1837	0.1837	100.0	Pass
20	0.1287	0.1287	100.0	Pass
21	0.2118	0.2118	100.0	Pass
22	0.2665	0.2665	100.0	Pass
23	0.3032	0.3032	100.0	Pass
24	0.2217	0.2217	100.0	Pass
25	0.1884	0.1884	100.0	Pass
26	0.1699	0.1699	100.0	Pass
27	0.2012	0.2012	100.0	Pass
28	0.2525	0.2525	100.0	Pass
29	0.2038	0.2038	100.0	Pass
30	0.2315	0.2315	100.0	Pass
31	0.1521	0.1521	100.0	Pass
Feb1	0.1640	0.1640	100.0	Pass
2	0.1478	0.1478	100.0	Pass
3	0.1354	0.1354	100.0	Pass
4	0.1255	0.1255	100.0	Pass
5	0.2137	0.2137	100.0	Pass
6	0.1248	0.1248	100.0	Pass
7	0.1629	0.1629	100.0	Pass
8	0.1297	0.1297	100.0	Pass
9	0.1477	0.1477	100.0	Pass
10	0.1929	0.1929	100.0	Pass
11	0.2576	0.2576	100.0	Pass
12	0.2137	0.2137	100.0	Pass
13	0.2225	0.2225	100.0	Pass
14	0.3000	0.3000	100.0	Pass
15	0.2375	0.2375	100.0	Pass
16	0.2938	0.2938	100.0	Pass
17	0.2670	0.2670	100.0	Pass
18	0.2213	0.2213	100.0	Pass

19	0.1908	0.1908	100.0	Pass
20	0.1813	0.1813	100.0	Pass
21	0.1487	0.1487	100.0	Pass
22	0.2052	0.2052	100.0	Pass
23	0.1987	0.1987	100.0	Pass
24	0.2179	0.2179	100.0	Pass
25	0.1993	0.1993	100.0	Pass
26	0.1978	0.1978	100.0	Pass
27	0.1750	0.1750	100.0	Pass
28	0.2160	0.2160	100.0	Pass
29	0.1660	0.1660	100.0	Pass
Mar1	0.1617	0.1617	100.0	Pass
2	0.1356	0.1356	100.0	Pass
3	0.1803	0.1803	100.0	Pass
4	0.1909	0.1909	100.0	Pass
5	0.1547	0.1547	100.0	Pass
6	0.1922	0.1922	100.0	Pass
7	0.1856	0.1856	100.0	Pass
8	0.1836	0.1836	100.0	Pass
9	0.1842	0.1842	100.0	Pass
10	0.1640	0.1640	100.0	Pass
11	0.1747	0.1747	100.0	Pass
12	0.1557	0.1557	100.0	Pass
13	0.1847	0.1847	100.0	Pass
14	0.1519	0.1519	100.0	Pass
15	0.1249	0.1249	100.0	Pass
16	0.1176	0.1176	100.0	Pass
17	0.1556	0.1556	100.0	Pass
18	0.1015	0.1015	100.0	Pass
19	0.1402	0.1402	100.0	Pass
20	0.1168	0.1168	100.0	Pass
21	0.1858	0.1858	100.0	Pass
22	0.2108	0.2108	100.0	Pass
23	0.1845	0.1845	100.0	Pass
24	0.1270	0.1270	100.0	Pass
25	0.1754	0.1754	100.0	Pass
26	0.1360	0.1360	100.0	Pass
27	0.1259	0.1259	100.0	Pass
28	0.1410	0.1410	100.0	Pass
29	0.1289	0.1289	100.0	Pass
30	0.1005	0.1005	100.0	Pass
31	0.0809	0.0809	100.0	Pass
Apr1	0.0832	0.0832	100.0	Pass
2	0.0914	0.0914	100.0	Pass
3	0.1200	0.1200	100.0	Pass
4	0.1137	0.1137	100.0	Pass
5	0.1248	0.1248	100.0	Pass
6	0.0725	0.0725	100.0	Pass
7	0.1066	0.1066	100.0	Pass
8	0.1105	0.1105	100.0	Pass
9	0.0974	0.0974	100.0	Pass
10	0.0988	0.0988	100.0	Pass
11	0.1269	0.1269	100.0	Pass
12	0.1147	0.1147	100.0	Pass
13	0.1176	0.1176	100.0	Pass
14	0.1035	0.1035	100.0	Pass
15	0.1102	0.1102	100.0	Pass

16	0.0665	0.0665	100.0	Pass
17	0.0823	0.0823	100.0	Pass
18	0.0932	0.0932	100.0	Pass
19	0.0564	0.0564	100.0	Pass
20	0.0513	0.0513	100.0	Pass
21	0.0800	0.0800	100.0	Pass
22	0.0686	0.0686	100.0	Pass
23	0.0618	0.0618	100.0	Pass
24	0.0504	0.0504	100.0	Pass
25	0.0576	0.0576	100.0	Pass
26	0.0961	0.0961	100.0	Pass
27	0.0776	0.0776	100.0	Pass
28	0.0809	0.0809	100.0	Pass
29	0.0433	0.0433	100.0	Pass
30	0.0510	0.0510	100.0	Pass
May1	0.0753	0.0753	100.0	Pass
2	0.0587	0.0587	100.0	Pass
3	0.0605	0.0605	100.0	Pass
4	0.0498	0.0498	100.0	Pass
5	0.0469	0.0469	100.0	Pass
6	0.0395	0.0395	100.0	Pass
7	0.0506	0.0506	100.0	Pass
8	0.0331	0.0331	100.0	Pass
9	0.0432	0.0432	100.0	Pass
10	0.0351	0.0351	100.0	Pass
11	0.0327	0.0327	100.0	Pass
12	0.0460	0.0460	100.0	Pass
13	0.0495	0.0495	100.0	Pass
14	0.0484	0.0484	100.0	Pass
15	0.0350	0.0350	100.0	Pass
16	0.0421	0.0421	100.0	Pass
17	0.0356	0.0356	100.0	Pass
18	0.0540	0.0540	100.0	Pass
19	0.0311	0.0311	100.0	Pass
20	0.0288	0.0288	100.0	Pass
21	0.0294	0.0294	100.0	Pass
22	0.0349	0.0349	100.0	Pass
23	0.0317	0.0317	100.0	Pass
24	0.0334	0.0334	100.0	Pass
25	0.0284	0.0284	100.0	Pass
26	0.0471	0.0471	100.0	Pass
27	0.0383	0.0383	100.0	Pass
28	0.0407	0.0407	100.0	Pass
29	0.0555	0.0555	100.0	Pass
30	0.0375	0.0375	100.0	Pass
31	0.0407	0.0407	100.0	Pass
Jun1	0.0319	0.0319	100.0	Pass
2	0.0471	0.0471	100.0	Pass
3	0.0451	0.0451	100.0	Pass
4	0.0337	0.0337	100.0	Pass
5	0.0538	0.0538	100.0	Pass
6	0.0233	0.0233	100.0	Pass
7	0.0328	0.0328	100.0	Pass
8	0.0448	0.0448	100.0	Pass
9	0.0344	0.0344	100.0	Pass
10	0.0319	0.0319	100.0	Pass
11	0.0238	0.0238	100.0	Pass

12	0.0275	0.0275	100.0	Pass
13	0.0437	0.0437	100.0	Pass
14	0.0200	0.0200	100.0	Pass
15	0.0365	0.0365	100.0	Pass
16	0.0178	0.0178	100.0	Pass
17	0.0232	0.0232	100.0	Pass
18	0.0169	0.0169	100.0	Pass
19	0.0182	0.0182	100.0	Pass
20	0.0193	0.0193	100.0	Pass
21	0.0199	0.0199	100.0	Pass
22	0.0115	0.0115	100.0	Pass
23	0.0524	0.0524	100.0	Pass
24	0.0172	0.0172	100.0	Pass
25	0.0246	0.0246	100.0	Pass
26	0.0149	0.0149	100.0	Pass
27	0.0129	0.0129	100.0	Pass
28	0.0131	0.0131	100.0	Pass
29	0.0170	0.0170	100.0	Pass
30	0.0375	0.0375	100.0	Pass
Jul1	0.0108	0.0108	100.0	Pass
2	0.0086	0.0086	100.0	Pass
3	0.0088	0.0088	100.0	Pass
4	0.0202	0.0202	100.0	Pass
5	0.0154	0.0154	100.0	Pass
6	0.0118	0.0118	100.0	Pass
7	0.0233	0.0233	100.0	Pass
8	0.0143	0.0143	100.0	Pass
9	0.0276	0.0276	100.0	Pass
10	0.0188	0.0188	100.0	Pass
11	0.0388	0.0388	100.0	Pass
12	0.0230	0.0230	100.0	Pass
13	0.0162	0.0162	100.0	Pass
14	0.0223	0.0223	100.0	Pass
15	0.0096	0.0096	100.0	Pass
16	0.0060	0.0060	100.0	Pass
17	0.0185	0.0185	100.0	Pass
18	0.0073	0.0073	100.0	Pass
19	0.0081	0.0081	100.0	Pass
20	0.0132	0.0132	100.0	Pass
21	0.0111	0.0111	100.0	Pass
22	0.0017	0.0017	100.0	Pass
23	0.0032	0.0032	100.0	Pass
24	0.0034	0.0034	100.0	Pass
25	0.0073	0.0073	100.0	Pass
26	0.0030	0.0030	100.0	Pass
27	0.0046	0.0046	100.0	Pass
28	0.0038	0.0038	100.0	Pass
29	0.0025	0.0025	100.0	Pass
30	0.0042	0.0042	100.0	Pass
31	0.0049	0.0049	100.0	Pass
Aug1	0.0202	0.0202	100.0	Pass
2	0.0077	0.0077	100.0	Pass
3	0.0033	0.0033	100.0	Pass
4	0.0030	0.0030	100.0	Pass
5	0.0234	0.0234	100.0	Pass
6	0.0164	0.0164	100.0	Pass
7	0.0064	0.0064	100.0	Pass

8	0.0060	0.0060	100.0	Pass
9	0.0007	0.0007	100.0	Pass
10	0.0031	0.0031	100.0	Pass
11	0.0147	0.0147	100.0	Pass
12	0.0127	0.0127	100.0	Pass
13	0.0162	0.0162	100.0	Pass
14	0.0106	0.0106	100.0	Pass
15	0.0098	0.0098	100.0	Pass
16	0.0081	0.0081	100.0	Pass
17	0.0147	0.0147	100.0	Pass
18	0.0282	0.0282	100.0	Pass
19	0.0091	0.0091	100.0	Pass
20	0.0223	0.0223	100.0	Pass
21	0.0213	0.0213	100.0	Pass
22	0.0408	0.0408	100.0	Pass
23	0.0400	0.0400	100.0	Pass
24	0.0374	0.0374	100.0	Pass
25	0.0167	0.0167	100.0	Pass
26	0.0401	0.0401	100.0	Pass
27	0.0421	0.0421	100.0	Pass
28	0.0433	0.0433	100.0	Pass
29	0.0278	0.0278	100.0	Pass
30	0.0416	0.0416	100.0	Pass
31	0.0673	0.0673	100.0	Pass
Sep1	0.0308	0.0308	100.0	Pass
2	0.0293	0.0293	100.0	Pass
3	0.0303	0.0303	100.0	Pass
4	0.0365	0.0365	100.0	Pass
5	0.0318	0.0318	100.0	Pass
6	0.0224	0.0224	100.0	Pass
7	0.0402	0.0402	100.0	Pass
8	0.0273	0.0273	100.0	Pass
9	0.0649	0.0649	100.0	Pass
10	0.0180	0.0180	100.0	Pass
11	0.0142	0.0142	100.0	Pass
12	0.0344	0.0344	100.0	Pass
13	0.0652	0.0652	100.0	Pass
14	0.0444	0.0444	100.0	Pass
15	0.0648	0.0648	100.0	Pass
16	0.0722	0.0722	100.0	Pass
17	0.0766	0.0766	100.0	Pass
18	0.0695	0.0695	100.0	Pass
19	0.0759	0.0759	100.0	Pass
20	0.0588	0.0588	100.0	Pass
21	0.0789	0.0789	100.0	Pass
22	0.0642	0.0642	100.0	Pass
23	0.0504	0.0504	100.0	Pass
24	0.0362	0.0362	100.0	Pass
25	0.0363	0.0363	100.0	Pass
26	0.0367	0.0367	100.0	Pass
27	0.0506	0.0506	100.0	Pass
28	0.0434	0.0434	100.0	Pass
29	0.0560	0.0560	100.0	Pass
30	0.0430	0.0430	100.0	Pass
Oct1	0.0312	0.0312	100.0	Pass
2	0.0700	0.0700	100.0	Pass
3	0.0643	0.0643	100.0	Pass

4	0.0801	0.0801	100.0	Pass
5	0.0858	0.0858	100.0	Pass
6	0.0942	0.0942	100.0	Pass
7	0.1216	0.1216	100.0	Pass
8	0.1028	0.1028	100.0	Pass
9	0.0816	0.0816	100.0	Pass
10	0.0672	0.0672	100.0	Pass
11	0.1170	0.1170	100.0	Pass
12	0.0837	0.0837	100.0	Pass
13	0.1110	0.1110	100.0	Pass
14	0.0703	0.0703	100.0	Pass
15	0.0787	0.0787	100.0	Pass
16	0.1049	0.1049	100.0	Pass
17	0.0971	0.0971	100.0	Pass
18	0.1524	0.1524	100.0	Pass
19	0.1904	0.1904	100.0	Pass
20	0.1663	0.1663	100.0	Pass
21	0.1999	0.1999	100.0	Pass
22	0.1286	0.1286	100.0	Pass
23	0.1950	0.1950	100.0	Pass
24	0.1751	0.1751	100.0	Pass
25	0.1587	0.1587	100.0	Pass
26	0.1875	0.1875	100.0	Pass
27	0.1650	0.1650	100.0	Pass
28	0.1530	0.1530	100.0	Pass
29	0.1319	0.1319	100.0	Pass
30	0.1828	0.1828	100.0	Pass
31	0.1616	0.1616	100.0	Pass
Nov1	0.1998	0.1998	100.0	Pass
2	0.2345	0.2345	100.0	Pass
3	0.1957	0.1957	100.0	Pass
4	0.1928	0.1928	100.0	Pass
5	0.2124	0.2124	100.0	Pass
6	0.1836	0.1836	100.0	Pass
7	0.1659	0.1659	100.0	Pass
8	0.2038	0.2038	100.0	Pass
9	0.2418	0.2418	100.0	Pass
10	0.2132	0.2132	100.0	Pass
11	0.2352	0.2352	100.0	Pass
12	0.2180	0.2180	100.0	Pass
13	0.1735	0.1735	100.0	Pass
14	0.1922	0.1922	100.0	Pass
15	0.2143	0.2143	100.0	Pass
16	0.2233	0.2233	100.0	Pass
17	0.2083	0.2083	100.0	Pass
18	0.2961	0.2961	100.0	Pass
19	0.2737	0.2737	100.0	Pass
20	0.1922	0.1922	100.0	Pass
21	0.2797	0.2797	100.0	Pass
22	0.3243	0.3243	100.0	Pass
23	0.2635	0.2635	100.0	Pass
24	0.2937	0.2937	100.0	Pass
25	0.2076	0.2076	100.0	Pass
26	0.1685	0.1685	100.0	Pass
27	0.1910	0.1910	100.0	Pass
28	0.1829	0.1829	100.0	Pass
29	0.2905	0.2905	100.0	Pass

30	0.2456	0.2456	100.0	Pass
Dec1	0.2659	0.2659	100.0	Pass
2	0.2624	0.2624	100.0	Pass
3	0.1778	0.1778	100.0	Pass
4	0.1870	0.1870	100.0	Pass
5	0.1648	0.1648	100.0	Pass
6	0.1406	0.1406	100.0	Pass
7	0.1918	0.1918	100.0	Pass
8	0.2403	0.2403	100.0	Pass
9	0.2452	0.2452	100.0	Pass
10	0.2663	0.2663	100.0	Pass
11	0.2010	0.2010	100.0	Pass
12	0.2120	0.2120	100.0	Pass
13	0.3013	0.3013	100.0	Pass
14	0.2270	0.2270	100.0	Pass
15	0.2795	0.2795	100.0	Pass
16	0.2030	0.2030	100.0	Pass
17	0.2293	0.2293	100.0	Pass
18	0.1930	0.1930	100.0	Pass
19	0.2173	0.2173	100.0	Pass
20	0.2180	0.2180	100.0	Pass
21	0.2400	0.2400	100.0	Pass
22	0.2349	0.2349	100.0	Pass
23	0.2534	0.2534	100.0	Pass
24	0.2769	0.2769	100.0	Pass
25	0.2509	0.2509	100.0	Pass
26	0.2301	0.2301	100.0	Pass
27	0.1600	0.1600	100.0	Pass
28	0.2321	0.2321	100.0	Pass
29	0.1658	0.1658	100.0	Pass
30	0.1658	0.1658	100.0	Pass
31	0.2659	0.2659	100.0	Pass

Perlnd and Implnd Changes

No changes have been made.

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Adams Street Basin WWHM Modeling Report (3)

WWHM2012 PROJECT REPORT

Project Name: Adams ST basin 3
Site Name: Adams St basin 3
Site Address:
City :
Report Date: 9/3/2019
Gage : Montesano
Data Start : 1955/10/01
Data End : 2009/09/30
Precip Scale: 1.00
Version : 2013/09/11

Low Flow Threshold for POC 1 : 50 Percent of the 2 Year

High Flow Threshold for POC 1: 50 year

Low Flow Threshold for POC 2 : 50 Percent of the 2 Year

High Flow Threshold for POC 2: 50 year

Low Flow Threshold for POC 3 : 50 Percent of the 2 Year

High Flow Threshold for POC 3: 50 year

Low Flow Threshold for POC 4 : 50 Percent of the 2 Year

High Flow Threshold for POC 4: 50 year

Low Flow Threshold for POC 5 : 50 Percent of the 2 Year

High Flow Threshold for POC 5: 50 year

Low Flow Threshold for POC 6 : 50 Percent of the 2 Year

High Flow Threshold for POC 6: 50 year

Low Flow Threshold for POC 7 : 50 Percent of the 2 Year

High Flow Threshold for POC 7: 50 year

Low Flow Threshold for POC 8 : 50 Percent of the 2 Year

High Flow Threshold for POC 8: 50 year

Low Flow Threshold for POC 9 : 50 Percent of the 2 Year

High Flow Threshold for POC 9: 50 year

Low Flow Threshold for POC 10 : 50 Percent of the 2 Year

High Flow Threshold for POC 10: 50 year

Low Flow Threshold for POC 11 : 50 Percent of the 2 Year

High Flow Threshold for POC 11: 50 year

Low Flow Threshold for POC 12 : 50 Percent of the 2 Year

High Flow Threshold for POC 12: 50 year

Low Flow Threshold for POC 13 : 50 Percent of the 2 Year

High Flow Threshold for POC 13: 50 year

Low Flow Threshold for POC 14 : 50 Percent of the 2 Year

High Flow Threshold for POC 14: 50 year

PREDEVELOPED LAND USE

Name : SD-80A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Forest, Steep	6.2
C, Lawn, Flat	11.99

Pervious Total	18.19
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<u>Impervious Land Use</u>	<u>Acres</u>
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ROADS FLAT	6.617
Impervious Total	6.617
Basin Total	24.807

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-79A
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	2.19
Pervious Total	2.19
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.733
Impervious Total	0.733
Basin Total	2.923

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-78A
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.943
Pervious Total	0.943
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.87
Impervious Total	0.87
Basin Total	1.813

Element Flows To:
Surface Interflow Groundwater

Name : SD-77A
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.081
Impervious Total	0.081
Basin Total	0.081

Element Flows To:
Surface Interflow Groundwater

Name : SD-81
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.993
Pervious Total	0.993
<u>Impervious Land Use</u>	<u>Acres</u>
Impervious Total	0
Basin Total	0.993

Element Flows To:
Surface Interflow Groundwater

Name : NODE-18A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.11
Pervious Total	0.11
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.362
Impervious Total	0.362
Basin Total	0.472

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-19A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.019
Pervious Total	0.019
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.357
Impervious Total	0.357
Basin Total	0.376

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-20A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.019
Pervious Total	0.019
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.278
Impervious Total	0.278
Basin Total	0.297

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-75

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.166
Pervious Total	0.166
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.173
Impervious Total	0.173
Basin Total	0.339

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-80

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.971

C, Forest, Steep	3.217
Pervious Total	4.188
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.565
Impervious Total	1.565
Basin Total	5.753

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-18
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Forest, Steep	1.553
C, Lawn, Flat	.692
Pervious Total	2.245
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.123
Impervious Total	2.123
Basin Total	4.368

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-19
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.055
Pervious Total	0.055

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.418
Impervious Total	0.418
Basin Total	0.473

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-17
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.589
Pervious Total	0.589

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.708
Impervious Total	1.708
Basin Total	2.297

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-21
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.127
Pervious Total	0.127

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.41
Impervious Total	0.41

Basin Total 0.537

Element Flows To:
Surface Interflow Groundwater

MITIGATED LAND USE

Name : SD-80A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Forest, Steep	6.2
C, Lawn, Flat	11.99
Pervious Total	18.19
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	6.617
Impervious Total	6.617
Basin Total	24.807

Element Flows To:
Surface Interflow Groundwater

Name : SD-79A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	2.19
Pervious Total	2.19
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.733
Impervious Total	0.733
Basin Total	2.923

Element Flows To:
Surface Interflow Groundwater

Name : SD-78A
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.943
Pervious Total	0.943
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.87
Impervious Total	0.87
Basin Total	1.813

Element Flows To:
Surface Interflow Groundwater

Name : SD-77A
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.081
Impervious Total	0.081
Basin Total	0.081

Element Flows To:
Surface Interflow Groundwater

Name : SD-81

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.993
Pervious Total	0.993
<u>Impervious Land Use</u>	<u>Acres</u>
Impervious Total	0
Basin Total	0.993

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-18A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.11
Pervious Total	0.11
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.362
Impervious Total	0.362
Basin Total	0.472

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-19A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.019
Pervious Total	0.019
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.357
Impervious Total	0.357
Basin Total	0.376

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-20A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.019
Pervious Total	0.019
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.278
Impervious Total	0.278
Basin Total	0.297

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-75

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.166

Pervious Total	0.166
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.173
Impervious Total	0.173
Basin Total	0.339

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-80
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.971
C, Forest, Steep	3.217
Pervious Total	4.188
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.565
Impervious Total	1.565
Basin Total	5.753

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-18
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Forest, Steep	1.553
C, Lawn, Flat	.692
Pervious Total	2.245
<u>Impervious Land Use</u>	<u>Acres</u>

ROADS FLAT	2.123
Impervious Total	2.123
Basin Total	4.368

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-19
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.055
Pervious Total	0.055
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.418
Impervious Total	0.418
Basin Total	0.473

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-17
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.589
Pervious Total	0.589
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.708
Impervious Total	1.708
Basin Total	2.297

Element Flows To:
Surface Interflow Groundwater

Name : NODE-21
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.127
Pervious Total	0.127
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.41
Impervious Total	0.41
Basin Total	0.537

Element Flows To:
Surface Interflow Groundwater

ANALYSIS RESULTS

Stream Protection Duration

Predeveloped Landuse Totals for POC #1
Total Pervious Area:18.19
Total Impervious Area:6.617

Mitigated Landuse Totals for POC #1
Total Pervious Area:18.19
Total Impervious Area:6.617

Flow Frequency Return Periods for Predeveloped. POC #1
Return Period Flow(cfs)
2 year 9.164793

5 year	11.817299
10 year	13.340269
25 year	15.052429
50 year	16.199707
100 year	17.254679

Flow Frequency Return Periods for Mitigated. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	9.164793
5 year	11.817299
10 year	13.340269
25 year	15.052429
50 year	16.199707
100 year	17.254679

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #1

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	11.268	11.268
1957	12.728	12.728
1958	8.671	8.671
1959	10.079	10.079
1960	10.987	10.987
1961	7.423	7.423
1962	15.100	15.100
1963	13.543	13.543
1964	9.711	9.711
1965	10.859	10.859
1966	11.084	11.084
1967	5.732	5.732
1968	9.994	9.994
1969	10.969	10.969
1970	7.375	7.375
1971	14.566	14.566
1972	13.358	13.358
1973	10.701	10.701
1974	11.265	11.265
1975	8.984	8.984
1976	11.477	11.477
1977	7.349	7.349
1978	13.935	13.935
1979	8.977	8.977
1980	7.655	7.655
1981	10.125	10.125
1982	11.015	11.015
1983	9.344	9.344
1984	8.746	8.746
1985	4.881	4.881
1986	10.774	10.774
1987	7.180	7.180
1988	11.001	11.001
1989	8.687	8.687
1990	13.403	13.403
1991	8.198	8.198
1992	5.484	5.484
1993	5.259	5.259

1994	8.457	8.457
1995	5.680	5.680
1996	7.197	7.197
1997	9.128	9.128
1998	5.276	5.276
1999	7.613	7.613
2000	7.114	7.114
2001	5.223	5.223
2002	7.405	7.405
2003	14.650	14.650
2004	12.416	12.416
2005	8.983	8.983
2006	10.100	10.100
2007	12.154	12.154
2008	4.800	4.800
2009	4.196	4.196

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	15.0996	15.0996
2	14.6500	14.6500
3	14.5657	14.5657
4	13.9350	13.9350
5	13.5425	13.5425
6	13.4028	13.4028
7	13.3576	13.3576
8	12.7283	12.7283
9	12.4160	12.4160
10	12.1535	12.1535
11	11.4772	11.4772
12	11.2682	11.2682
13	11.2652	11.2652
14	11.0840	11.0840
15	11.0152	11.0152
16	11.0005	11.0005
17	10.9872	10.9872
18	10.9690	10.9690
19	10.8588	10.8588
20	10.7741	10.7741
21	10.7011	10.7011
22	10.1254	10.1254
23	10.1001	10.1001
24	10.0790	10.0790
25	9.9940	9.9940
26	9.7108	9.7108
27	9.3441	9.3441
28	9.1284	9.1284
29	8.9835	8.9835
30	8.9834	8.9834
31	8.9774	8.9774
32	8.7464	8.7464
33	8.6868	8.6868
34	8.6713	8.6713
35	8.4569	8.4569
36	8.1979	8.1979

37	7.6549	7.6549
38	7.6125	7.6125
39	7.4233	7.4233
40	7.4052	7.4052
41	7.3749	7.3749
42	7.3495	7.3495
43	7.1973	7.1973
44	7.1795	7.1795
45	7.1144	7.1144
46	5.7318	5.7318
47	5.6796	5.6796
48	5.4835	5.4835
49	5.2763	5.2763
50	5.2593	5.2593
51	5.2234	5.2234
52	4.8808	4.8808
53	4.8004	4.8004
54	4.1962	4.1962

Stream Protection Duration

POC #1

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
4.5824	673	673	100	Pass
4.6997	617	617	100	Pass
4.8171	576	576	100	Pass
4.9344	537	537	100	Pass
5.0518	502	502	100	Pass
5.1691	457	457	100	Pass
5.2865	417	417	100	Pass
5.4038	394	394	100	Pass
5.5212	368	368	100	Pass
5.6385	343	343	100	Pass
5.7559	320	320	100	Pass
5.8732	303	303	100	Pass
5.9906	279	279	100	Pass
6.1079	258	258	100	Pass
6.2252	240	240	100	Pass
6.3426	223	223	100	Pass
6.4599	204	204	100	Pass
6.5773	193	193	100	Pass
6.6946	185	185	100	Pass
6.8120	171	171	100	Pass
6.9293	163	163	100	Pass
7.0467	160	160	100	Pass
7.1640	151	151	100	Pass
7.2814	139	139	100	Pass
7.3987	131	131	100	Pass
7.5161	122	122	100	Pass
7.6334	116	116	100	Pass
7.7508	109	109	100	Pass
7.8681	99	99	100	Pass
7.9854	98	98	100	Pass

8.1028	95	95	100	Pass
8.2201	90	90	100	Pass
8.3375	87	87	100	Pass
8.4548	83	83	100	Pass
8.5722	79	79	100	Pass
8.6895	75	75	100	Pass
8.8069	70	70	100	Pass
8.9242	68	68	100	Pass
9.0416	60	60	100	Pass
9.1589	59	59	100	Pass
9.2763	59	59	100	Pass
9.3936	55	55	100	Pass
9.5110	52	52	100	Pass
9.6283	50	50	100	Pass
9.7456	47	47	100	Pass
9.8630	47	47	100	Pass
9.9803	46	46	100	Pass
10.0977	43	43	100	Pass
10.2150	38	38	100	Pass
10.3324	38	38	100	Pass
10.4497	37	37	100	Pass
10.5671	35	35	100	Pass
10.6844	34	34	100	Pass
10.8018	32	32	100	Pass
10.9191	28	28	100	Pass
11.0365	24	24	100	Pass
11.1538	23	23	100	Pass
11.2712	19	19	100	Pass
11.3885	19	19	100	Pass
11.5058	18	18	100	Pass
11.6232	17	17	100	Pass
11.7405	14	14	100	Pass
11.8579	12	12	100	Pass
11.9752	12	12	100	Pass
12.0926	12	12	100	Pass
12.2099	11	11	100	Pass
12.3273	11	11	100	Pass
12.4446	10	10	100	Pass
12.5620	10	10	100	Pass
12.6793	10	10	100	Pass
12.7967	9	9	100	Pass
12.9140	9	9	100	Pass
13.0313	9	9	100	Pass
13.1487	9	9	100	Pass
13.2660	9	9	100	Pass
13.3834	8	8	100	Pass
13.5007	7	7	100	Pass
13.6181	6	6	100	Pass
13.7354	6	6	100	Pass
13.8528	6	6	100	Pass
13.9701	5	5	100	Pass
14.0875	4	4	100	Pass
14.2048	3	3	100	Pass
14.3222	3	3	100	Pass
14.4395	3	3	100	Pass
14.5569	3	3	100	Pass
14.6742	1	1	100	Pass

14.7915	1	1	100	Pass
14.9089	1	1	100	Pass
15.0262	1	1	100	Pass
15.1436	0	0	100	Pass
15.2609	0	0	0	Pass
15.3783	0	0	0	Pass
15.4956	0	0	0	Pass
15.6130	0	0	0	Pass
15.7303	0	0	0	Pass
15.8477	0	0	0	Pass
15.9650	0	0	0	Pass
16.0824	0	0	0	Pass
16.1997	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #1
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 1
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	794.5685	794.5685	100.0	Pass
Feb	616.7585	616.7585	100.0	Pass
Mar	540.0458	540.0458	100.0	Pass
Apr	284.2635	284.2635	100.0	Pass
May	125.3998	125.3998	100.0	Pass
Jun	74.5630	74.5630	100.0	Pass
Jul	31.8822	31.8822	100.0	Pass
Aug	42.9149	42.9149	100.0	Pass
Sep	115.7173	115.7173	100.0	Pass
Oct	342.0100	342.0100	100.0	Pass
Nov	698.8707	698.8707	100.0	Pass
Dec	759.2815	759.2815	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	25.4131	25.4131	100.0	Pass
2	21.2898	21.2898	100.0	Pass
3	24.4714	24.4714	100.0	Pass
4	27.2494	27.2494	100.0	Pass
5	23.2281	23.2281	100.0	Pass
6	29.2566	29.2566	100.0	Pass
7	26.5574	26.5574	100.0	Pass
8	25.6160	25.6160	100.0	Pass
9	25.8071	25.8071	100.0	Pass
10	26.7340	26.7340	100.0	Pass
11	30.9320	30.9320	100.0	Pass
12	27.5200	27.5200	100.0	Pass
13	30.8867	30.8867	100.0	Pass
14	31.9534	31.9534	100.0	Pass
15	30.1100	30.1100	100.0	Pass

16	26.9279	26.9279	100.0	Pass
17	25.1118	25.1118	100.0	Pass
18	22.1303	22.1303	100.0	Pass
19	20.7702	20.7702	100.0	Pass
20	15.5765	15.5765	100.0	Pass
21	20.5560	20.5560	100.0	Pass
22	28.4207	28.4207	100.0	Pass
23	33.1637	33.1637	100.0	Pass
24	26.9347	26.9347	100.0	Pass
25	22.4125	22.4125	100.0	Pass
26	20.0844	20.0844	100.0	Pass
27	21.7538	21.7538	100.0	Pass
28	27.0888	27.0888	100.0	Pass
29	23.8576	23.8576	100.0	Pass
30	25.0839	25.0839	100.0	Pass
31	18.6484	18.6484	100.0	Pass
Feb1	18.5707	18.5707	100.0	Pass
2	16.4433	16.4433	100.0	Pass
3	15.3680	15.3680	100.0	Pass
4	14.2833	14.2833	100.0	Pass
5	21.7015	21.7015	100.0	Pass
6	15.8485	15.8485	100.0	Pass
7	17.4993	17.4993	100.0	Pass
8	14.7356	14.7356	100.0	Pass
9	15.4875	15.4875	100.0	Pass
10	19.9500	19.9500	100.0	Pass
11	27.6443	27.6443	100.0	Pass
12	24.7872	24.7872	100.0	Pass
13	24.4312	24.4312	100.0	Pass
14	31.2199	31.2199	100.0	Pass
15	28.1283	28.1283	100.0	Pass
16	31.8233	31.8233	100.0	Pass
17	30.2608	30.2608	100.0	Pass
18	26.9805	26.9805	100.0	Pass
19	22.4848	22.4848	100.0	Pass
20	21.2278	21.2278	100.0	Pass
21	17.1896	17.1896	100.0	Pass
22	22.1143	22.1143	100.0	Pass
23	22.3557	22.3557	100.0	Pass
24	24.3550	24.3550	100.0	Pass
25	22.7724	22.7724	100.0	Pass
26	23.1976	23.1976	100.0	Pass
27	20.5666	20.5666	100.0	Pass
28	25.9309	25.9309	100.0	Pass
29	18.8896	18.8896	100.0	Pass
Mar1	18.0639	18.0639	100.0	Pass
2	15.7017	15.7017	100.0	Pass
3	19.1685	19.1685	100.0	Pass
4	21.1061	21.1061	100.0	Pass
5	17.5247	17.5247	100.0	Pass
6	21.5524	21.5524	100.0	Pass
7	20.1040	20.1040	100.0	Pass
8	20.5725	20.5725	100.0	Pass
9	20.5764	20.5764	100.0	Pass
10	18.9278	18.9278	100.0	Pass
11	19.5880	19.5880	100.0	Pass
12	17.4895	17.4895	100.0	Pass

13	20.2694	20.2694	100.0	Pass
14	17.4332	17.4332	100.0	Pass
15	14.3961	14.3961	100.0	Pass
16	13.1013	13.1013	100.0	Pass
17	17.0119	17.0119	100.0	Pass
18	12.1271	12.1271	100.0	Pass
19	14.7841	14.7841	100.0	Pass
20	12.9727	12.9727	100.0	Pass
21	18.9684	18.9684	100.0	Pass
22	22.2406	22.2406	100.0	Pass
23	21.2977	21.2977	100.0	Pass
24	15.8064	15.8064	100.0	Pass
25	18.6982	18.6982	100.0	Pass
26	16.0270	16.0270	100.0	Pass
27	13.8286	13.8286	100.0	Pass
28	15.7710	15.7710	100.0	Pass
29	14.3141	14.3141	100.0	Pass
30	11.7640	11.7640	100.0	Pass
31	9.3235	9.3235	100.0	Pass
Apr1	9.1120	9.1120	100.0	Pass
2	9.6957	9.6957	100.0	Pass
3	11.8287	11.8287	100.0	Pass
4	12.3150	12.3150	100.0	Pass
5	13.9591	13.9591	100.0	Pass
6	8.8707	8.8707	100.0	Pass
7	10.9114	10.9114	100.0	Pass
8	12.0597	12.0597	100.0	Pass
9	10.3506	10.3506	100.0	Pass
10	10.9777	10.9777	100.0	Pass
11	12.4774	12.4774	100.0	Pass
12	12.6394	12.6394	100.0	Pass
13	12.3576	12.3576	100.0	Pass
14	11.5996	11.5996	100.0	Pass
15	12.1017	12.1017	100.0	Pass
16	8.1416	8.1416	100.0	Pass
17	8.5999	8.5999	100.0	Pass
18	9.6097	9.6097	100.0	Pass
19	6.9050	6.9050	100.0	Pass
20	5.5818	5.5818	100.0	Pass
21	7.7780	7.7780	100.0	Pass
22	7.0127	7.0127	100.0	Pass
23	6.6577	6.6577	100.0	Pass
24	5.4753	5.4753	100.0	Pass
25	5.7298	5.7298	100.0	Pass
26	9.5246	9.5246	100.0	Pass
27	8.5973	8.5973	100.0	Pass
28	8.7849	8.7849	100.0	Pass
29	5.3101	5.3101	100.0	Pass
30	5.0256	5.0256	100.0	Pass
May1	6.8827	6.8827	100.0	Pass
2	6.2429	6.2429	100.0	Pass
3	5.9327	5.9327	100.0	Pass
4	5.2892	5.2892	100.0	Pass
5	4.7847	4.7847	100.0	Pass
6	3.9809	3.9809	100.0	Pass
7	4.7911	4.7911	100.0	Pass
8	3.5570	3.5570	100.0	Pass

9	4.0000	4.0000	100.0	Pass
10	3.2716	3.2716	100.0	Pass
11	3.0133	3.0133	100.0	Pass
12	4.3336	4.3336	100.0	Pass
13	4.5534	4.5534	100.0	Pass
14	4.3800	4.3800	100.0	Pass
15	3.7294	3.7294	100.0	Pass
16	3.7895	3.7895	100.0	Pass
17	3.4190	3.4190	100.0	Pass
18	4.5399	4.5399	100.0	Pass
19	3.2044	3.2044	100.0	Pass
20	2.5925	2.5925	100.0	Pass
21	2.6569	2.6569	100.0	Pass
22	2.8970	2.8970	100.0	Pass
23	2.9134	2.9134	100.0	Pass
24	3.1003	3.1003	100.0	Pass
25	2.6576	2.6576	100.0	Pass
26	4.0295	4.0295	100.0	Pass
27	3.5734	3.5734	100.0	Pass
28	3.5781	3.5781	100.0	Pass
29	4.9853	4.9853	100.0	Pass
30	3.7091	3.7091	100.0	Pass
31	4.0307	4.0307	100.0	Pass
Jun1	3.4061	3.4061	100.0	Pass
2	3.8800	3.8800	100.0	Pass
3	3.8580	3.8580	100.0	Pass
4	3.1685	3.1685	100.0	Pass
5	4.4334	4.4334	100.0	Pass
6	2.5011	2.5011	100.0	Pass
7	3.1465	3.1465	100.0	Pass
8	3.9929	3.9929	100.0	Pass
9	3.1988	3.1988	100.0	Pass
10	2.7456	2.7456	100.0	Pass
11	2.1417	2.1417	100.0	Pass
12	2.2221	2.2221	100.0	Pass
13	3.5566	3.5566	100.0	Pass
14	2.0323	2.0323	100.0	Pass
15	3.0939	3.0939	100.0	Pass
16	1.8898	1.8898	100.0	Pass
17	2.0056	2.0056	100.0	Pass
18	1.7034	1.7034	100.0	Pass
19	1.4679	1.4679	100.0	Pass
20	1.4522	1.4522	100.0	Pass
21	1.6956	1.6956	100.0	Pass
22	1.1046	1.1046	100.0	Pass
23	3.6457	3.6457	100.0	Pass
24	1.9220	1.9220	100.0	Pass
25	2.0049	2.0049	100.0	Pass
26	1.2301	1.2301	100.0	Pass
27	0.9607	0.9607	100.0	Pass
28	0.9345	0.9345	100.0	Pass
29	1.1454	1.1454	100.0	Pass
30	2.6368	2.6368	100.0	Pass
Jul1	0.9884	0.9884	100.0	Pass
2	0.6900	0.6900	100.0	Pass
3	0.6292	0.6292	100.0	Pass
4	1.2517	1.2517	100.0	Pass

5	1.0314	1.0314	100.0	Pass
6	0.7975	0.7975	100.0	Pass
7	1.6829	1.6829	100.0	Pass
8	1.2384	1.2384	100.0	Pass
9	1.9893	1.9893	100.0	Pass
10	1.4878	1.4878	100.0	Pass
11	3.2542	3.2542	100.0	Pass
12	2.6391	2.6391	100.0	Pass
13	1.6669	1.6669	100.0	Pass
14	1.7494	1.7494	100.0	Pass
15	0.8440	0.8440	100.0	Pass
16	0.5104	0.5104	100.0	Pass
17	1.3517	1.3517	100.0	Pass
18	0.7388	0.7388	100.0	Pass
19	0.6616	0.6616	100.0	Pass
20	0.9092	0.9092	100.0	Pass
21	0.8489	0.8489	100.0	Pass
22	0.2204	0.2204	100.0	Pass
23	0.2492	0.2492	100.0	Pass
24	0.2331	0.2331	100.0	Pass
25	0.4456	0.4456	100.0	Pass
26	0.1898	0.1898	100.0	Pass
27	0.2759	0.2759	100.0	Pass
28	0.2422	0.2422	100.0	Pass
29	0.1715	0.1715	100.0	Pass
30	0.2599	0.2599	100.0	Pass
31	0.3023	0.3023	100.0	Pass
Aug1	1.2449	1.2449	100.0	Pass
2	0.5885	0.5885	100.0	Pass
3	0.2996	0.2996	100.0	Pass
4	0.2424	0.2424	100.0	Pass
5	1.5073	1.5073	100.0	Pass
6	1.1618	1.1618	100.0	Pass
7	0.5287	0.5287	100.0	Pass
8	0.4362	0.4362	100.0	Pass
9	0.0817	0.0817	100.0	Pass
10	0.2079	0.2079	100.0	Pass
11	0.8973	0.8973	100.0	Pass
12	0.8091	0.8091	100.0	Pass
13	1.0451	1.0451	100.0	Pass
14	0.7823	0.7823	100.0	Pass
15	0.7840	0.7840	100.0	Pass
16	0.5952	0.5952	100.0	Pass
17	0.9241	0.9241	100.0	Pass
18	1.7633	1.7633	100.0	Pass
19	0.7843	0.7843	100.0	Pass
20	1.4458	1.4458	100.0	Pass
21	1.4919	1.4919	100.0	Pass
22	2.7647	2.7647	100.0	Pass
23	2.9262	2.9262	100.0	Pass
24	3.1072	3.1072	100.0	Pass
25	1.6040	1.6040	100.0	Pass
26	2.8208	2.8208	100.0	Pass
27	3.1265	3.1265	100.0	Pass
28	3.4076	3.4076	100.0	Pass
29	2.2962	2.2962	100.0	Pass
30	2.9413	2.9413	100.0	Pass

31	4.8930	4.8930	100.0	Pass
Sep1	2.9599	2.9599	100.0	Pass
2	2.5252	2.5252	100.0	Pass
3	2.4420	2.4420	100.0	Pass
4	2.6998	2.6998	100.0	Pass
5	2.4107	2.4107	100.0	Pass
6	1.7843	1.7843	100.0	Pass
7	2.7662	2.7662	100.0	Pass
8	2.2042	2.2042	100.0	Pass
9	4.4445	4.4445	100.0	Pass
10	1.6192	1.6192	100.0	Pass
11	1.1506	1.1506	100.0	Pass
12	2.3761	2.3761	100.0	Pass
13	4.6453	4.6453	100.0	Pass
14	3.5954	3.5954	100.0	Pass
15	4.8319	4.8319	100.0	Pass
16	6.2346	6.2346	100.0	Pass
17	6.1729	6.1729	100.0	Pass
18	5.5549	5.5549	100.0	Pass
19	6.3814	6.3814	100.0	Pass
20	5.3294	5.3294	100.0	Pass
21	7.1398	7.1398	100.0	Pass
22	6.0706	6.0706	100.0	Pass
23	4.5225	4.5225	100.0	Pass
24	3.2139	3.2139	100.0	Pass
25	2.9074	2.9074	100.0	Pass
26	2.9300	2.9300	100.0	Pass
27	4.1766	4.1766	100.0	Pass
28	3.4628	3.4628	100.0	Pass
29	4.2884	4.2884	100.0	Pass
30	3.5956	3.5956	100.0	Pass
Oct1	2.7670	2.7670	100.0	Pass
2	5.0714	5.0714	100.0	Pass
3	4.9998	4.9998	100.0	Pass
4	6.5380	6.5380	100.0	Pass
5	7.3088	7.3088	100.0	Pass
6	7.6864	7.6864	100.0	Pass
7	10.1653	10.1653	100.0	Pass
8	9.2459	9.2459	100.0	Pass
9	7.5023	7.5023	100.0	Pass
10	6.3442	6.3442	100.0	Pass
11	9.3823	9.3823	100.0	Pass
12	7.5354	7.5354	100.0	Pass
13	8.9266	8.9266	100.0	Pass
14	6.8115	6.8115	100.0	Pass
15	6.8937	6.8937	100.0	Pass
16	9.5403	9.5403	100.0	Pass
17	8.9235	8.9235	100.0	Pass
18	13.5083	13.5083	100.0	Pass
19	17.7598	17.7598	100.0	Pass
20	15.7364	15.7364	100.0	Pass
21	18.7529	18.7529	100.0	Pass
22	13.4228	13.4228	100.0	Pass
23	18.4777	18.4777	100.0	Pass
24	17.3348	17.3348	100.0	Pass
25	15.8796	15.8796	100.0	Pass
26	18.1906	18.1906	100.0	Pass

27	16.9883	16.9883	100.0	Pass
28	15.7331	15.7331	100.0	Pass
29	13.8907	13.8907	100.0	Pass
30	17.1321	17.1321	100.0	Pass
31	16.7482	16.7482	100.0	Pass
Nov1	20.2567	20.2567	100.0	Pass
2	22.6679	22.6679	100.0	Pass
3	21.0760	21.0760	100.0	Pass
4	19.3158	19.3158	100.0	Pass
5	21.5032	21.5032	100.0	Pass
6	19.7033	19.7033	100.0	Pass
7	17.5831	17.5831	100.0	Pass
8	20.2018	20.2018	100.0	Pass
9	24.5148	24.5148	100.0	Pass
10	22.4099	22.4099	100.0	Pass
11	24.1781	24.1781	100.0	Pass
12	22.4340	22.4340	100.0	Pass
13	19.7294	19.7294	100.0	Pass
14	20.0354	20.0354	100.0	Pass
15	21.9214	21.9214	100.0	Pass
16	23.1383	23.1383	100.0	Pass
17	22.2545	22.2545	100.0	Pass
18	30.0401	30.0401	100.0	Pass
19	29.6818	29.6818	100.0	Pass
20	22.2855	22.2855	100.0	Pass
21	28.8128	28.8128	100.0	Pass
22	32.9864	32.9864	100.0	Pass
23	29.8289	29.8289	100.0	Pass
24	31.6692	31.6692	100.0	Pass
25	24.8976	24.8976	100.0	Pass
26	19.8795	19.8795	100.0	Pass
27	20.1570	20.1570	100.0	Pass
28	19.7067	19.7067	100.0	Pass
29	29.2918	29.2918	100.0	Pass
30	27.6012	27.6012	100.0	Pass
Dec1	28.6654	28.6654	100.0	Pass
2	29.3196	29.3196	100.0	Pass
3	21.2474	21.2474	100.0	Pass
4	20.3160	20.3160	100.0	Pass
5	18.8336	18.8336	100.0	Pass
6	15.4911	15.4911	100.0	Pass
7	19.5019	19.5019	100.0	Pass
8	24.7635	24.7635	100.0	Pass
9	26.8173	26.8173	100.0	Pass
10	29.3471	29.3471	100.0	Pass
11	23.1572	23.1572	100.0	Pass
12	23.2453	23.2453	100.0	Pass
13	30.9092	30.9092	100.0	Pass
14	26.7806	26.7806	100.0	Pass
15	29.4489	29.4489	100.0	Pass
16	24.0611	24.0611	100.0	Pass
17	24.9205	24.9205	100.0	Pass
18	21.6420	21.6420	100.0	Pass
19	22.8477	22.8477	100.0	Pass
20	24.2030	24.2030	100.0	Pass
21	26.4424	26.4424	100.0	Pass
22	26.1820	26.1820	100.0	Pass

23	27.6820	27.6820	100.0	Pass
24	29.2862	29.2862	100.0	Pass
25	28.8559	28.8559	100.0	Pass
26	26.3411	26.3411	100.0	Pass
27	18.9723	18.9723	100.0	Pass
28	24.4037	24.4037	100.0	Pass
29	19.9142	19.9142	100.0	Pass
30	18.1198	18.1198	100.0	Pass
31	27.7105	27.7105	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #2
Total Pervious Area:2.19
Total Impervious Area:0.733

Mitigated Landuse Totals for POC #2
Total Pervious Area:2.19
Total Impervious Area:0.733

Flow Frequency Return Periods for Predeveloped. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.216331
5 year	1.574964
10 year	1.77602
25 year	1.997109
50 year	2.142068
100 year	2.272967

Flow Frequency Return Periods for Mitigated. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.216331
5 year	1.574964
10 year	1.77602
25 year	1.997109
50 year	2.142068
100 year	2.272967

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #2

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.520	1.520
1957	1.632	1.632
1958	1.113	1.113
1959	1.394	1.394
1960	1.497	1.497
1961	0.997	0.997
1962	1.989	1.989
1963	1.744	1.744

1964	1.304	1.304
1965	1.419	1.419
1966	1.509	1.509
1967	0.739	0.739
1968	1.345	1.345
1969	1.393	1.393
1970	0.948	0.948
1971	1.978	1.978
1972	1.765	1.765
1973	1.352	1.352
1974	1.529	1.529
1975	1.209	1.209
1976	1.547	1.547
1977	0.986	0.986
1978	1.816	1.816
1979	1.183	1.183
1980	1.050	1.050
1981	1.282	1.282
1982	1.462	1.462
1983	1.176	1.176
1984	1.194	1.194
1985	0.611	0.611
1986	1.409	1.409
1987	0.938	0.938
1988	1.514	1.514
1989	1.163	1.163
1990	1.784	1.784
1991	1.001	1.001
1992	0.715	0.715
1993	0.687	0.687
1994	1.130	1.130
1995	0.716	0.716
1996	0.902	0.902
1997	1.240	1.240
1998	0.683	0.683
1999	1.012	1.012
2000	0.932	0.932
2001	0.703	0.703
2002	0.984	0.984
2003	1.972	1.972
2004	1.706	1.706
2005	1.248	1.248
2006	1.331	1.331
2007	1.651	1.651
2008	0.613	0.613
2009	0.533	0.533

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	1.9888	1.9888
2	1.9784	1.9784
3	1.9722	1.9722
4	1.8159	1.8159
5	1.7841	1.7841
6	1.7649	1.7649

7	1.7443	1.7443
8	1.7061	1.7061
9	1.6507	1.6507
10	1.6316	1.6316
11	1.5468	1.5468
12	1.5287	1.5287
13	1.5204	1.5204
14	1.5138	1.5138
15	1.5088	1.5088
16	1.4972	1.4972
17	1.4619	1.4619
18	1.4185	1.4185
19	1.4094	1.4094
20	1.3940	1.3940
21	1.3927	1.3927
22	1.3517	1.3517
23	1.3448	1.3448
24	1.3315	1.3315
25	1.3042	1.3042
26	1.2816	1.2816
27	1.2480	1.2480
28	1.2402	1.2402
29	1.2094	1.2094
30	1.1936	1.1936
31	1.1826	1.1826
32	1.1761	1.1761
33	1.1626	1.1626
34	1.1299	1.1299
35	1.1126	1.1126
36	1.0500	1.0500
37	1.0122	1.0122
38	1.0012	1.0012
39	0.9974	0.9974
40	0.9861	0.9861
41	0.9835	0.9835
42	0.9485	0.9485
43	0.9379	0.9379
44	0.9325	0.9325
45	0.9020	0.9020
46	0.7391	0.7391
47	0.7165	0.7165
48	0.7152	0.7152
49	0.7029	0.7029
50	0.6867	0.6867
51	0.6833	0.6833
52	0.6127	0.6127
53	0.6113	0.6113
54	0.5333	0.5333

Stream Protection Duration

POC #2

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.6082	597	597	100	Pass
0.6237	561	561	100	Pass
0.6392	515	515	100	Pass
0.6546	488	488	100	Pass
0.6701	452	452	100	Pass
0.6856	417	417	100	Pass
0.7011	391	391	100	Pass
0.7166	368	368	100	Pass
0.7321	341	341	100	Pass
0.7476	317	317	100	Pass
0.7631	297	297	100	Pass
0.7786	282	282	100	Pass
0.7941	262	262	100	Pass
0.8096	251	251	100	Pass
0.8251	229	229	100	Pass
0.8406	212	212	100	Pass
0.8561	204	204	100	Pass
0.8716	196	196	100	Pass
0.8871	186	186	100	Pass
0.9026	174	174	100	Pass
0.9180	163	163	100	Pass
0.9335	152	152	100	Pass
0.9490	144	144	100	Pass
0.9645	136	136	100	Pass
0.9800	129	129	100	Pass
0.9955	122	122	100	Pass
1.0110	116	116	100	Pass
1.0265	113	113	100	Pass
1.0420	109	109	100	Pass
1.0575	102	102	100	Pass
1.0730	100	100	100	Pass
1.0885	93	93	100	Pass
1.1040	90	90	100	Pass
1.1195	83	83	100	Pass
1.1350	78	78	100	Pass
1.1505	75	75	100	Pass
1.1659	73	73	100	Pass
1.1814	70	70	100	Pass
1.1969	65	65	100	Pass
1.2124	60	60	100	Pass
1.2279	59	59	100	Pass
1.2434	57	57	100	Pass
1.2589	55	55	100	Pass
1.2744	53	53	100	Pass
1.2899	50	50	100	Pass
1.3054	48	48	100	Pass
1.3209	47	47	100	Pass
1.3364	42	42	100	Pass
1.3519	40	40	100	Pass
1.3674	39	39	100	Pass
1.3829	39	39	100	Pass
1.3984	36	36	100	Pass
1.4139	33	33	100	Pass
1.4293	30	30	100	Pass
1.4448	29	29	100	Pass
1.4603	29	29	100	Pass
1.4758	26	26	100	Pass

1.4913	25	25	100	Pass
1.5068	24	24	100	Pass
1.5223	20	20	100	Pass
1.5378	18	18	100	Pass
1.5533	17	17	100	Pass
1.5688	17	17	100	Pass
1.5843	15	15	100	Pass
1.5998	13	13	100	Pass
1.6153	12	12	100	Pass
1.6308	12	12	100	Pass
1.6463	11	11	100	Pass
1.6618	10	10	100	Pass
1.6772	10	10	100	Pass
1.6927	10	10	100	Pass
1.7082	9	9	100	Pass
1.7237	9	9	100	Pass
1.7392	9	9	100	Pass
1.7547	8	8	100	Pass
1.7702	7	7	100	Pass
1.7857	6	6	100	Pass
1.8012	6	6	100	Pass
1.8167	5	5	100	Pass
1.8322	5	5	100	Pass
1.8477	5	5	100	Pass
1.8632	5	5	100	Pass
1.8787	5	5	100	Pass
1.8942	5	5	100	Pass
1.9097	3	3	100	Pass
1.9252	3	3	100	Pass
1.9406	3	3	100	Pass
1.9561	3	3	100	Pass
1.9716	3	3	100	Pass
1.9871	1	1	100	Pass
2.0026	0	0	100	Pass
2.0181	0	0	0	Pass
2.0336	0	0	0	Pass
2.0491	0	0	0	Pass
2.0646	0	0	0	Pass
2.0801	0	0	0	Pass
2.0956	0	0	0	Pass
2.1111	0	0	0	Pass
2.1266	0	0	0	Pass
2.1421	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #2

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 2

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	97.3596	97.3596	100.0	Pass
Feb	75.5281	75.5281	100.0	Pass
Mar	66.2259	66.2259	100.0	Pass
Apr	34.9568	34.9568	100.0	Pass
May	15.6546	15.6546	100.0	Pass
Jun	9.4189	9.4189	100.0	Pass
Jul	4.1318	4.1318	100.0	Pass
Aug	5.6795	5.6795	100.0	Pass
Sep	15.5212	15.5212	100.0	Pass
Oct	44.5351	44.5351	100.0	Pass
Nov	87.7790	87.7790	100.0	Pass
Dec	93.9599	93.9599	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	3.0761	3.0761	100.0	Pass
2	2.6371	2.6371	100.0	Pass
3	3.0014	3.0014	100.0	Pass
4	3.3045	3.3045	100.0	Pass
5	2.8739	2.8739	100.0	Pass
6	3.5622	3.5622	100.0	Pass
7	3.2859	3.2859	100.0	Pass
8	3.1726	3.1726	100.0	Pass
9	3.1777	3.1777	100.0	Pass
10	3.2847	3.2847	100.0	Pass
11	3.7823	3.7823	100.0	Pass
12	3.3447	3.3447	100.0	Pass
13	3.7656	3.7656	100.0	Pass
14	3.8924	3.8924	100.0	Pass
15	3.6864	3.6864	100.0	Pass
16	3.3323	3.3323	100.0	Pass
17	3.0956	3.0956	100.0	Pass
18	2.7476	2.7476	100.0	Pass
19	2.5706	2.5706	100.0	Pass
20	1.9838	1.9838	100.0	Pass
21	2.5118	2.5118	100.0	Pass
22	3.4120	3.4120	100.0	Pass
23	4.0032	4.0032	100.0	Pass
24	3.2717	3.2717	100.0	Pass
25	2.7954	2.7954	100.0	Pass
26	2.5137	2.5137	100.0	Pass
27	2.6807	2.6807	100.0	Pass
28	3.2797	3.2797	100.0	Pass
29	2.9018	2.9018	100.0	Pass
30	3.0828	3.0828	100.0	Pass
31	2.3334	2.3334	100.0	Pass
Feb1	2.3140	2.3140	100.0	Pass
2	2.0400	2.0400	100.0	Pass
3	1.9134	1.9134	100.0	Pass
4	1.7748	1.7748	100.0	Pass
5	2.6220	2.6220	100.0	Pass
6	1.9419	1.9419	100.0	Pass
7	2.1381	2.1381	100.0	Pass
8	1.8418	1.8418	100.0	Pass
9	1.9081	1.9081	100.0	Pass
10	2.4020	2.4020	100.0	Pass
11	3.2926	3.2926	100.0	Pass

12	3.0241	3.0241	100.0	Pass
13	2.9875	2.9875	100.0	Pass
14	3.7598	3.7598	100.0	Pass
15	3.4380	3.4380	100.0	Pass
16	3.8627	3.8627	100.0	Pass
17	3.7113	3.7113	100.0	Pass
18	3.3238	3.3238	100.0	Pass
19	2.8243	2.8243	100.0	Pass
20	2.6259	2.6259	100.0	Pass
21	2.1586	2.1586	100.0	Pass
22	2.6999	2.6999	100.0	Pass
23	2.6998	2.6998	100.0	Pass
24	2.9380	2.9380	100.0	Pass
25	2.7939	2.7939	100.0	Pass
26	2.8068	2.8068	100.0	Pass
27	2.5236	2.5236	100.0	Pass
28	3.2099	3.2099	100.0	Pass
29	2.3378	2.3378	100.0	Pass
Mar1	2.2367	2.2367	100.0	Pass
2	1.9549	1.9549	100.0	Pass
3	2.3410	2.3410	100.0	Pass
4	2.5327	2.5327	100.0	Pass
5	2.1608	2.1608	100.0	Pass
6	2.6057	2.6057	100.0	Pass
7	2.4505	2.4505	100.0	Pass
8	2.5061	2.5061	100.0	Pass
9	2.5154	2.5154	100.0	Pass
10	2.3239	2.3239	100.0	Pass
11	2.3968	2.3968	100.0	Pass
12	2.1621	2.1621	100.0	Pass
13	2.4666	2.4666	100.0	Pass
14	2.1597	2.1597	100.0	Pass
15	1.8108	1.8108	100.0	Pass
16	1.6387	1.6387	100.0	Pass
17	2.0694	2.0694	100.0	Pass
18	1.5083	1.5083	100.0	Pass
19	1.8043	1.8043	100.0	Pass
20	1.5986	1.5986	100.0	Pass
21	2.2762	2.2762	100.0	Pass
22	2.6474	2.6474	100.0	Pass
23	2.5746	2.5746	100.0	Pass
24	1.9820	1.9820	100.0	Pass
25	2.2859	2.2859	100.0	Pass
26	1.9781	1.9781	100.0	Pass
27	1.7298	1.7298	100.0	Pass
28	1.9353	1.9353	100.0	Pass
29	1.7643	1.7643	100.0	Pass
30	1.4747	1.4747	100.0	Pass
31	1.1867	1.1867	100.0	Pass
Apr1	1.1411	1.1411	100.0	Pass
2	1.1978	1.1978	100.0	Pass
3	1.4352	1.4352	100.0	Pass
4	1.4876	1.4876	100.0	Pass
5	1.6934	1.6934	100.0	Pass
6	1.1223	1.1223	100.0	Pass
7	1.3292	1.3292	100.0	Pass
8	1.4595	1.4595	100.0	Pass

9	1.2726	1.2726	100.0	Pass
10	1.3485	1.3485	100.0	Pass
11	1.5157	1.5157	100.0	Pass
12	1.5284	1.5284	100.0	Pass
13	1.5163	1.5163	100.0	Pass
14	1.4193	1.4193	100.0	Pass
15	1.4919	1.4919	100.0	Pass
16	1.0404	1.0404	100.0	Pass
17	1.0698	1.0698	100.0	Pass
18	1.1727	1.1727	100.0	Pass
19	0.8708	0.8708	100.0	Pass
20	0.7108	0.7108	100.0	Pass
21	0.9389	0.9389	100.0	Pass
22	0.8618	0.8618	100.0	Pass
23	0.8242	0.8242	100.0	Pass
24	0.6894	0.6894	100.0	Pass
25	0.7046	0.7046	100.0	Pass
26	1.1589	1.1589	100.0	Pass
27	1.0262	1.0262	100.0	Pass
28	1.0640	1.0640	100.0	Pass
29	0.6816	0.6816	100.0	Pass
30	0.6395	0.6395	100.0	Pass
May1	0.8391	0.8391	100.0	Pass
2	0.7715	0.7715	100.0	Pass
3	0.7371	0.7371	100.0	Pass
4	0.6624	0.6624	100.0	Pass
5	0.5990	0.5990	100.0	Pass
6	0.5005	0.5005	100.0	Pass
7	0.5912	0.5912	100.0	Pass
8	0.4493	0.4493	100.0	Pass
9	0.4960	0.4960	100.0	Pass
10	0.4190	0.4190	100.0	Pass
11	0.3817	0.3817	100.0	Pass
12	0.5176	0.5176	100.0	Pass
13	0.5553	0.5553	100.0	Pass
14	0.5430	0.5430	100.0	Pass
15	0.4752	0.4752	100.0	Pass
16	0.4738	0.4738	100.0	Pass
17	0.4378	0.4378	100.0	Pass
18	0.5536	0.5536	100.0	Pass
19	0.4027	0.4027	100.0	Pass
20	0.3319	0.3319	100.0	Pass
21	0.3393	0.3393	100.0	Pass
22	0.3628	0.3628	100.0	Pass
23	0.3636	0.3636	100.0	Pass
24	0.3844	0.3844	100.0	Pass
25	0.3441	0.3441	100.0	Pass
26	0.4960	0.4960	100.0	Pass
27	0.4491	0.4491	100.0	Pass
28	0.4550	0.4550	100.0	Pass
29	0.6153	0.6153	100.0	Pass
30	0.4693	0.4693	100.0	Pass
31	0.4991	0.4991	100.0	Pass
Jun1	0.4297	0.4297	100.0	Pass
2	0.4821	0.4821	100.0	Pass
3	0.4756	0.4756	100.0	Pass
4	0.3984	0.3984	100.0	Pass

5	0.5538	0.5538	100.0	Pass
6	0.3359	0.3359	100.0	Pass
7	0.3914	0.3914	100.0	Pass
8	0.4901	0.4901	100.0	Pass
9	0.4021	0.4021	100.0	Pass
10	0.3474	0.3474	100.0	Pass
11	0.2799	0.2799	100.0	Pass
12	0.2807	0.2807	100.0	Pass
13	0.4372	0.4372	100.0	Pass
14	0.2677	0.2677	100.0	Pass
15	0.3838	0.3838	100.0	Pass
16	0.2474	0.2474	100.0	Pass
17	0.2614	0.2614	100.0	Pass
18	0.2278	0.2278	100.0	Pass
19	0.1911	0.1911	100.0	Pass
20	0.1852	0.1852	100.0	Pass
21	0.2099	0.2099	100.0	Pass
22	0.1431	0.1431	100.0	Pass
23	0.4391	0.4391	100.0	Pass
24	0.2537	0.2537	100.0	Pass
25	0.2560	0.2560	100.0	Pass
26	0.1624	0.1624	100.0	Pass
27	0.1246	0.1246	100.0	Pass
28	0.1197	0.1197	100.0	Pass
29	0.1434	0.1434	100.0	Pass
30	0.3347	0.3347	100.0	Pass
Jul11	0.1450	0.1450	100.0	Pass
2	0.0967	0.0967	100.0	Pass
3	0.0821	0.0821	100.0	Pass
4	0.1466	0.1466	100.0	Pass
5	0.1240	0.1240	100.0	Pass
6	0.0982	0.0982	100.0	Pass
7	0.2074	0.2074	100.0	Pass
8	0.1666	0.1666	100.0	Pass
9	0.2451	0.2451	100.0	Pass
10	0.1963	0.1963	100.0	Pass
11	0.4087	0.4087	100.0	Pass
12	0.3442	0.3442	100.0	Pass
13	0.2243	0.2243	100.0	Pass
14	0.2320	0.2320	100.0	Pass
15	0.1220	0.1220	100.0	Pass
16	0.0737	0.0737	100.0	Pass
17	0.1714	0.1714	100.0	Pass
18	0.1038	0.1038	100.0	Pass
19	0.0888	0.0888	100.0	Pass
20	0.1139	0.1139	100.0	Pass
21	0.1165	0.1165	100.0	Pass
22	0.0386	0.0386	100.0	Pass
23	0.0349	0.0349	100.0	Pass
24	0.0297	0.0297	100.0	Pass
25	0.0517	0.0517	100.0	Pass
26	0.0225	0.0225	100.0	Pass
27	0.0316	0.0316	100.0	Pass
28	0.0288	0.0288	100.0	Pass
29	0.0217	0.0217	100.0	Pass
30	0.0304	0.0304	100.0	Pass
31	0.0351	0.0351	100.0	Pass

Aug1	0.1457	0.1457	100.0	Pass
2	0.0809	0.0809	100.0	Pass
3	0.0456	0.0456	100.0	Pass
4	0.0345	0.0345	100.0	Pass
5	0.1842	0.1842	100.0	Pass
6	0.1532	0.1532	100.0	Pass
7	0.0764	0.0764	100.0	Pass
8	0.0582	0.0582	100.0	Pass
9	0.0140	0.0140	100.0	Pass
10	0.0264	0.0264	100.0	Pass
11	0.1047	0.1047	100.0	Pass
12	0.0977	0.0977	100.0	Pass
13	0.1279	0.1279	100.0	Pass
14	0.1052	0.1052	100.0	Pass
15	0.1094	0.1094	100.0	Pass
16	0.0797	0.0797	100.0	Pass
17	0.1105	0.1105	100.0	Pass
18	0.2077	0.2077	100.0	Pass
19	0.1090	0.1090	100.0	Pass
20	0.1758	0.1758	100.0	Pass
21	0.1945	0.1945	100.0	Pass
22	0.3523	0.3523	100.0	Pass
23	0.3955	0.3955	100.0	Pass
24	0.4522	0.4522	100.0	Pass
25	0.2499	0.2499	100.0	Pass
26	0.3672	0.3672	100.0	Pass
27	0.4200	0.4200	100.0	Pass
28	0.4674	0.4674	100.0	Pass
29	0.3181	0.3181	100.0	Pass
30	0.3809	0.3809	100.0	Pass
31	0.6505	0.6505	100.0	Pass
Sep1	0.4397	0.4397	100.0	Pass
2	0.3615	0.3615	100.0	Pass
3	0.3373	0.3373	100.0	Pass
4	0.3621	0.3621	100.0	Pass
5	0.3315	0.3315	100.0	Pass
6	0.2532	0.2532	100.0	Pass
7	0.3512	0.3512	100.0	Pass
8	0.2938	0.2938	100.0	Pass
9	0.5563	0.5563	100.0	Pass
10	0.2395	0.2395	100.0	Pass
11	0.1631	0.1631	100.0	Pass
12	0.2984	0.2984	100.0	Pass
13	0.5846	0.5846	100.0	Pass
14	0.4850	0.4850	100.0	Pass
15	0.6382	0.6382	100.0	Pass
16	0.8127	0.8127	100.0	Pass
17	0.8034	0.8034	100.0	Pass
18	0.7448	0.7448	100.0	Pass
19	0.8596	0.8596	100.0	Pass
20	0.7562	0.7562	100.0	Pass
21	0.9509	0.9509	100.0	Pass
22	0.7995	0.7995	100.0	Pass
23	0.6204	0.6204	100.0	Pass
24	0.4487	0.4487	100.0	Pass
25	0.3945	0.3945	100.0	Pass
26	0.3965	0.3965	100.0	Pass

27	0.5623	0.5623	100.0	Pass
28	0.4658	0.4658	100.0	Pass
29	0.5624	0.5624	100.0	Pass
30	0.5040	0.5040	100.0	Pass
Oct1	0.3932	0.3932	100.0	Pass
2	0.6427	0.6427	100.0	Pass
3	0.6444	0.6444	100.0	Pass
4	0.8432	0.8432	100.0	Pass
5	0.9231	0.9231	100.0	Pass
6	0.9972	0.9972	100.0	Pass
7	1.3167	1.3167	100.0	Pass
8	1.2212	1.2212	100.0	Pass
9	1.0167	1.0167	100.0	Pass
10	0.8500	0.8500	100.0	Pass
11	1.2077	1.2077	100.0	Pass
12	1.0088	1.0088	100.0	Pass
13	1.1819	1.1819	100.0	Pass
14	0.9452	0.9452	100.0	Pass
15	0.9490	0.9490	100.0	Pass
16	1.2281	1.2281	100.0	Pass
17	1.1713	1.1713	100.0	Pass
18	1.7501	1.7501	100.0	Pass
19	2.2572	2.2572	100.0	Pass
20	2.0273	2.0273	100.0	Pass
21	2.4098	2.4098	100.0	Pass
22	1.8394	1.8394	100.0	Pass
23	2.3621	2.3621	100.0	Pass
24	2.2268	2.2268	100.0	Pass
25	2.0735	2.0735	100.0	Pass
26	2.3253	2.3253	100.0	Pass
27	2.1960	2.1960	100.0	Pass
28	2.0219	2.0219	100.0	Pass
29	1.8088	1.8088	100.0	Pass
30	2.1973	2.1973	100.0	Pass
31	2.1383	2.1383	100.0	Pass
Nov1	2.5431	2.5431	100.0	Pass
2	2.8009	2.8009	100.0	Pass
3	2.6928	2.6928	100.0	Pass
4	2.5118	2.5118	100.0	Pass
5	2.7501	2.7501	100.0	Pass
6	2.5334	2.5334	100.0	Pass
7	2.2781	2.2781	100.0	Pass
8	2.5376	2.5376	100.0	Pass
9	3.0365	3.0365	100.0	Pass
10	2.8349	2.8349	100.0	Pass
11	3.0481	3.0481	100.0	Pass
12	2.8388	2.8388	100.0	Pass
13	2.5219	2.5219	100.0	Pass
14	2.5272	2.5272	100.0	Pass
15	2.7725	2.7725	100.0	Pass
16	2.8771	2.8771	100.0	Pass
17	2.7929	2.7929	100.0	Pass
18	3.7086	3.7086	100.0	Pass
19	3.6658	3.6658	100.0	Pass
20	2.8552	2.8552	100.0	Pass
21	3.6071	3.6071	100.0	Pass
22	4.0210	4.0210	100.0	Pass

23	3.7046	3.7046	100.0	Pass
24	3.9340	3.9340	100.0	Pass
25	3.1364	3.1364	100.0	Pass
26	2.5432	2.5432	100.0	Pass
27	2.5481	2.5481	100.0	Pass
28	2.4581	2.4581	100.0	Pass
29	3.5665	3.5665	100.0	Pass
30	3.3829	3.3829	100.0	Pass
Dec1	3.5270	3.5270	100.0	Pass
2	3.6063	3.6063	100.0	Pass
3	2.6877	2.6877	100.0	Pass
4	2.5808	2.5808	100.0	Pass
5	2.3798	2.3798	100.0	Pass
6	1.9727	1.9727	100.0	Pass
7	2.4170	2.4170	100.0	Pass
8	3.0097	3.0097	100.0	Pass
9	3.2552	3.2552	100.0	Pass
10	3.5785	3.5785	100.0	Pass
11	2.8745	2.8745	100.0	Pass
12	2.8905	2.8905	100.0	Pass
13	3.7435	3.7435	100.0	Pass
14	3.3045	3.3045	100.0	Pass
15	3.6358	3.6358	100.0	Pass
16	3.0262	3.0262	100.0	Pass
17	3.1021	3.1021	100.0	Pass
18	2.7285	2.7285	100.0	Pass
19	2.8337	2.8337	100.0	Pass
20	2.9774	2.9774	100.0	Pass
21	3.2781	3.2781	100.0	Pass
22	3.1771	3.1771	100.0	Pass
23	3.3798	3.3798	100.0	Pass
24	3.5942	3.5942	100.0	Pass
25	3.5381	3.5381	100.0	Pass
26	3.2813	3.2813	100.0	Pass
27	2.4181	2.4181	100.0	Pass
28	3.0019	3.0019	100.0	Pass
29	2.4803	2.4803	100.0	Pass
30	2.3011	2.3011	100.0	Pass
31	3.3347	3.3347	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #3

Total Pervious Area:0.943
Total Impervious Area:0.87

Mitigated Landuse Totals for POC #3

Total Pervious Area:0.943
Total Impervious Area:0.87

Flow Frequency Return Periods for Predeveloped. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.882375
5 year	1.098873
10 year	1.220091
25 year	1.35413
50 year	1.44277
100 year	1.523522

Flow Frequency Return Periods for Mitigated. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.882375
5 year	1.098873
10 year	1.220091
25 year	1.35413
50 year	1.44277
100 year	1.523522

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #3

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.030	1.030
1957	1.174	1.174
1958	0.846	0.846
1959	0.964	0.964
1960	1.020	1.020
1961	0.692	0.692
1962	1.348	1.348
1963	1.202	1.202
1964	0.962	0.962
1965	1.003	1.003
1966	1.031	1.031
1967	0.567	0.567
1968	0.949	0.949
1969	0.947	0.947
1970	0.751	0.751
1971	1.358	1.358
1972	1.184	1.184
1973	0.984	0.984
1974	1.039	1.039
1975	0.865	0.865
1976	1.084	1.084
1977	0.733	0.733
1978	1.309	1.309
1979	0.840	0.840
1980	0.752	0.752
1981	0.943	0.943
1982	1.083	1.083
1983	0.863	0.863
1984	0.845	0.845
1985	0.515	0.515
1986	1.004	1.004
1987	0.683	0.683
1988	1.074	1.074
1989	0.855	0.855
1990	1.222	1.222

1991	0.715	0.715
1992	0.530	0.530
1993	0.566	0.566
1994	0.828	0.828
1995	0.636	0.636
1996	0.809	0.809
1997	0.932	0.932
1998	0.548	0.548
1999	0.742	0.742
2000	0.685	0.685
2001	0.587	0.587
2002	0.760	0.760
2003	1.331	1.331
2004	1.187	1.187
2005	0.899	0.899
2006	0.939	0.939
2007	1.138	1.138
2008	0.497	0.497
2009	0.452	0.452

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	1.3577	1.3577
2	1.3479	1.3479
3	1.3307	1.3307
4	1.3089	1.3089
5	1.2222	1.2222
6	1.2024	1.2024
7	1.1873	1.1873
8	1.1837	1.1837
9	1.1736	1.1736
10	1.1377	1.1377
11	1.0838	1.0838
12	1.0827	1.0827
13	1.0740	1.0740
14	1.0395	1.0395
15	1.0313	1.0313
16	1.0302	1.0302
17	1.0200	1.0200
18	1.0036	1.0036
19	1.0034	1.0034
20	0.9842	0.9842
21	0.9637	0.9637
22	0.9617	0.9617
23	0.9489	0.9489
24	0.9475	0.9475
25	0.9434	0.9434
26	0.9388	0.9388
27	0.9321	0.9321
28	0.8987	0.8987
29	0.8651	0.8651
30	0.8626	0.8626
31	0.8554	0.8554
32	0.8460	0.8460
33	0.8450	0.8450

34	0.8404	0.8404
35	0.8283	0.8283
36	0.8087	0.8087
37	0.7605	0.7605
38	0.7521	0.7521
39	0.7511	0.7511
40	0.7423	0.7423
41	0.7326	0.7326
42	0.7148	0.7148
43	0.6922	0.6922
44	0.6851	0.6851
45	0.6832	0.6832
46	0.6357	0.6357
47	0.5865	0.5865
48	0.5671	0.5671
49	0.5661	0.5661
50	0.5478	0.5478
51	0.5305	0.5305
52	0.5151	0.5151
53	0.4968	0.4968
54	0.4524	0.4524

Stream Protection Duration

POC #3

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4412	763	763	100	Pass
0.4513	711	711	100	Pass
0.4614	663	663	100	Pass
0.4715	623	623	100	Pass
0.4817	582	582	100	Pass
0.4918	545	545	100	Pass
0.5019	502	502	100	Pass
0.5120	461	461	100	Pass
0.5221	423	423	100	Pass
0.5322	386	386	100	Pass
0.5424	362	362	100	Pass
0.5525	349	349	100	Pass
0.5626	334	334	100	Pass
0.5727	317	317	100	Pass
0.5828	290	290	100	Pass
0.5929	264	264	100	Pass
0.6031	242	242	100	Pass
0.6132	228	228	100	Pass
0.6233	215	215	100	Pass
0.6334	205	205	100	Pass
0.6435	194	194	100	Pass
0.6536	183	183	100	Pass
0.6638	178	178	100	Pass
0.6739	166	166	100	Pass
0.6840	160	160	100	Pass
0.6941	146	146	100	Pass
0.7042	143	143	100	Pass

0.7143	134	134	100	Pass
0.7245	127	127	100	Pass
0.7346	122	122	100	Pass
0.7447	115	115	100	Pass
0.7548	109	109	100	Pass
0.7649	103	103	100	Pass
0.7750	99	99	100	Pass
0.7852	94	94	100	Pass
0.7953	89	89	100	Pass
0.8054	87	87	100	Pass
0.8155	79	79	100	Pass
0.8256	77	77	100	Pass
0.8358	74	74	100	Pass
0.8459	68	68	100	Pass
0.8560	66	66	100	Pass
0.8661	59	59	100	Pass
0.8762	59	59	100	Pass
0.8863	55	55	100	Pass
0.8965	53	53	100	Pass
0.9066	50	50	100	Pass
0.9167	48	48	100	Pass
0.9268	48	48	100	Pass
0.9369	46	46	100	Pass
0.9470	43	43	100	Pass
0.9572	40	40	100	Pass
0.9673	37	37	100	Pass
0.9774	36	36	100	Pass
0.9875	32	32	100	Pass
0.9976	32	32	100	Pass
1.0077	30	30	100	Pass
1.0179	29	29	100	Pass
1.0280	28	28	100	Pass
1.0381	25	25	100	Pass
1.0482	23	23	100	Pass
1.0583	21	21	100	Pass
1.0684	21	21	100	Pass
1.0786	19	19	100	Pass
1.0887	16	16	100	Pass
1.0988	14	14	100	Pass
1.1089	14	14	100	Pass
1.1190	13	13	100	Pass
1.1291	12	12	100	Pass
1.1393	11	11	100	Pass
1.1494	11	11	100	Pass
1.1595	11	11	100	Pass
1.1696	11	11	100	Pass
1.1797	10	10	100	Pass
1.1898	8	8	100	Pass
1.2000	8	8	100	Pass
1.2101	7	7	100	Pass
1.2202	7	7	100	Pass
1.2303	6	6	100	Pass
1.2404	6	6	100	Pass
1.2505	6	6	100	Pass
1.2607	6	6	100	Pass
1.2708	6	6	100	Pass
1.2809	5	5	100	Pass

1.2910	5	5	100	Pass
1.3011	4	4	100	Pass
1.3112	3	3	100	Pass
1.3214	3	3	100	Pass
1.3315	2	2	100	Pass
1.3416	2	2	100	Pass
1.3517	1	1	100	Pass
1.3618	0	0	100	Pass
1.3720	0	0	0	Pass
1.3821	0	0	0	Pass
1.3922	0	0	0	Pass
1.4023	0	0	0	Pass
1.4124	0	0	0	Pass
1.4225	0	0	0	Pass
1.4327	0	0	0	Pass
1.4428	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #3
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 3

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	64.0350	64.0350	100.0	Pass
Feb	49.3808	49.3808	100.0	Pass
Mar	43.4841	43.4841	100.0	Pass
Apr	23.4972	23.4972	100.0	Pass
May	11.4370	11.4370	100.0	Pass
Jun	7.2248	7.2248	100.0	Pass
Jul	3.3771	3.3771	100.0	Pass
Aug	4.8716	4.8716	100.0	Pass
Sep	12.0754	12.0754	100.0	Pass
Oct	32.0537	32.0537	100.0	Pass
Nov	59.0584	59.0584	100.0	Pass
Dec	61.7898	61.7898	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	2.0369	2.0369	100.0	Pass
2	1.6807	1.6807	100.0	Pass
3	2.0120	2.0120	100.0	Pass
4	2.2832	2.2832	100.0	Pass
5	1.8302	1.8302	100.0	Pass
6	2.4776	2.4776	100.0	Pass
7	2.1089	2.1089	100.0	Pass
8	2.0723	2.0723	100.0	Pass
9	2.1364	2.1364	100.0	Pass
10	2.1464	2.1464	100.0	Pass
11	2.5412	2.5412	100.0	Pass
12	2.1310	2.1310	100.0	Pass

13	2.5230	2.5230	100.0	Pass
14	2.5660	2.5660	100.0	Pass
15	2.3899	2.3899	100.0	Pass
16	2.0715	2.0715	100.0	Pass
17	1.9499	1.9499	100.0	Pass
18	1.7266	1.7266	100.0	Pass
19	1.6618	1.6618	100.0	Pass
20	1.1981	1.1981	100.0	Pass
21	1.8312	1.8312	100.0	Pass
22	2.3512	2.3512	100.0	Pass
23	2.6980	2.6980	100.0	Pass
24	2.0367	2.0367	100.0	Pass
25	1.7341	1.7341	100.0	Pass
26	1.5622	1.5622	100.0	Pass
27	1.7946	1.7946	100.0	Pass
28	2.2365	2.2365	100.0	Pass
29	1.8525	1.8525	100.0	Pass
30	2.0645	2.0645	100.0	Pass
31	1.4142	1.4142	100.0	Pass
Feb1	1.4869	1.4869	100.0	Pass
2	1.3314	1.3314	100.0	Pass
3	1.2283	1.2283	100.0	Pass
4	1.1387	1.1387	100.0	Pass
5	1.8641	1.8641	100.0	Pass
6	1.1657	1.1657	100.0	Pass
7	1.4471	1.4471	100.0	Pass
8	1.1779	1.1779	100.0	Pass
9	1.3065	1.3065	100.0	Pass
10	1.6893	1.6893	100.0	Pass
11	2.2720	2.2720	100.0	Pass
12	1.9394	1.9394	100.0	Pass
13	1.9892	1.9892	100.0	Pass
14	2.6319	2.6319	100.0	Pass
15	2.1698	2.1698	100.0	Pass
16	2.6110	2.6110	100.0	Pass
17	2.4105	2.4105	100.0	Pass
18	2.0445	2.0445	100.0	Pass
19	1.7544	1.7544	100.0	Pass
20	1.6562	1.6562	100.0	Pass
21	1.3594	1.3594	100.0	Pass
22	1.8242	1.8242	100.0	Pass
23	1.7824	1.7824	100.0	Pass
24	1.9504	1.9504	100.0	Pass
25	1.8037	1.8037	100.0	Pass
26	1.7967	1.7967	100.0	Pass
27	1.5969	1.5969	100.0	Pass
28	2.0879	2.0879	100.0	Pass
29	1.5044	1.5044	100.0	Pass
Mar1	1.4579	1.4579	100.0	Pass
2	1.2370	1.2370	100.0	Pass
3	1.5969	1.5969	100.0	Pass
4	1.7010	1.7010	100.0	Pass
5	1.3983	1.3983	100.0	Pass
6	1.7225	1.7225	100.0	Pass
7	1.6517	1.6517	100.0	Pass
8	1.6491	1.6491	100.0	Pass
9	1.6546	1.6546	100.0	Pass

10	1.4892	1.4892	100.0	Pass
11	1.5714	1.5714	100.0	Pass
12	1.4051	1.4051	100.0	Pass
13	1.6487	1.6487	100.0	Pass
14	1.3800	1.3800	100.0	Pass
15	1.1414	1.1414	100.0	Pass
16	1.0623	1.0623	100.0	Pass
17	1.3870	1.3870	100.0	Pass
18	0.9344	0.9344	100.0	Pass
19	1.2389	1.2389	100.0	Pass
20	1.0495	1.0495	100.0	Pass
21	1.6199	1.6199	100.0	Pass
22	1.8499	1.8499	100.0	Pass
23	1.6673	1.6673	100.0	Pass
24	1.1871	1.1871	100.0	Pass
25	1.5551	1.5551	100.0	Pass
26	1.2440	1.2440	100.0	Pass
27	1.1327	1.1327	100.0	Pass
28	1.2685	1.2685	100.0	Pass
29	1.1588	1.1588	100.0	Pass
30	0.9218	0.9218	100.0	Pass
31	0.7420	0.7420	100.0	Pass
Apr1	0.7485	0.7485	100.0	Pass
2	0.8117	0.8117	100.0	Pass
3	1.0400	1.0400	100.0	Pass
4	1.0090	1.0090	100.0	Pass
5	1.1191	1.1191	100.0	Pass
6	0.6761	0.6761	100.0	Pass
7	0.9336	0.9336	100.0	Pass
8	0.9835	0.9835	100.0	Pass
9	0.8639	0.8639	100.0	Pass
10	0.8871	0.8871	100.0	Pass
11	1.0990	1.0990	100.0	Pass
12	1.0229	1.0229	100.0	Pass
13	1.0397	1.0397	100.0	Pass
14	0.9305	0.9305	100.0	Pass
15	0.9872	0.9872	100.0	Pass
16	0.6219	0.6219	100.0	Pass
17	0.7294	0.7294	100.0	Pass
18	0.8187	0.8187	100.0	Pass
19	0.5255	0.5255	100.0	Pass
20	0.4624	0.4624	100.0	Pass
21	0.6896	0.6896	100.0	Pass
22	0.6021	0.6021	100.0	Pass
23	0.5512	0.5512	100.0	Pass
24	0.4530	0.4530	100.0	Pass
25	0.5021	0.5021	100.0	Pass
26	0.8345	0.8345	100.0	Pass
27	0.6907	0.6907	100.0	Pass
28	0.7190	0.7190	100.0	Pass
29	0.4058	0.4058	100.0	Pass
30	0.4472	0.4472	100.0	Pass
May1	0.6410	0.6410	100.0	Pass
2	0.5214	0.5214	100.0	Pass
3	0.5270	0.5270	100.0	Pass
4	0.4437	0.4437	100.0	Pass
5	0.4138	0.4138	100.0	Pass

6	0.3475	0.3475	100.0	Pass
7	0.4362	0.4362	100.0	Pass
8	0.2969	0.2969	100.0	Pass
9	0.3702	0.3702	100.0	Pass
10	0.3038	0.3038	100.0	Pass
11	0.2814	0.2814	100.0	Pass
12	0.3928	0.3928	100.0	Pass
13	0.4218	0.4218	100.0	Pass
14	0.4125	0.4125	100.0	Pass
15	0.3140	0.3140	100.0	Pass
16	0.3590	0.3590	100.0	Pass
17	0.3108	0.3108	100.0	Pass
18	0.4510	0.4510	100.0	Pass
19	0.2750	0.2750	100.0	Pass
20	0.2472	0.2472	100.0	Pass
21	0.2527	0.2527	100.0	Pass
22	0.2921	0.2921	100.0	Pass
23	0.2719	0.2719	100.0	Pass
24	0.2864	0.2864	100.0	Pass
25	0.2472	0.2472	100.0	Pass
26	0.3955	0.3955	100.0	Pass
27	0.3304	0.3304	100.0	Pass
28	0.3470	0.3470	100.0	Pass
29	0.4718	0.4718	100.0	Pass
30	0.3291	0.3291	100.0	Pass
31	0.3548	0.3548	100.0	Pass
Jun1	0.2852	0.2852	100.0	Pass
2	0.3933	0.3933	100.0	Pass
3	0.3787	0.3787	100.0	Pass
4	0.2909	0.2909	100.0	Pass
5	0.4491	0.4491	100.0	Pass
6	0.2123	0.2123	100.0	Pass
7	0.2842	0.2842	100.0	Pass
8	0.3797	0.3797	100.0	Pass
9	0.2966	0.2966	100.0	Pass
10	0.2699	0.2699	100.0	Pass
11	0.2051	0.2051	100.0	Pass
12	0.2295	0.2295	100.0	Pass
13	0.3630	0.3630	100.0	Pass
14	0.1787	0.1787	100.0	Pass
15	0.3061	0.3061	100.0	Pass
16	0.1610	0.1610	100.0	Pass
17	0.1979	0.1979	100.0	Pass
18	0.1512	0.1512	100.0	Pass
19	0.1528	0.1528	100.0	Pass
20	0.1587	0.1587	100.0	Pass
21	0.1674	0.1674	100.0	Pass
22	0.1009	0.1009	100.0	Pass
23	0.4189	0.4189	100.0	Pass
24	0.1582	0.1582	100.0	Pass
25	0.2063	0.2063	100.0	Pass
26	0.1263	0.1263	100.0	Pass
27	0.1065	0.1065	100.0	Pass
28	0.1068	0.1068	100.0	Pass
29	0.1360	0.1360	100.0	Pass
30	0.3036	0.3036	100.0	Pass
Jul1	0.0963	0.0963	100.0	Pass

2	0.0732	0.0732	100.0	Pass
3	0.0719	0.0719	100.0	Pass
4	0.1574	0.1574	100.0	Pass
5	0.1225	0.1225	100.0	Pass
6	0.0943	0.0943	100.0	Pass
7	0.1888	0.1888	100.0	Pass
8	0.1234	0.1234	100.0	Pass
9	0.2234	0.2234	100.0	Pass
10	0.1578	0.1578	100.0	Pass
11	0.3259	0.3259	100.0	Pass
12	0.2120	0.2120	100.0	Pass
13	0.1462	0.1462	100.0	Pass
14	0.1870	0.1870	100.0	Pass
15	0.0845	0.0845	100.0	Pass
16	0.0522	0.0522	100.0	Pass
17	0.1512	0.1512	100.0	Pass
18	0.0664	0.0664	100.0	Pass
19	0.0686	0.0686	100.0	Pass
20	0.1061	0.1061	100.0	Pass
21	0.0932	0.0932	100.0	Pass
22	0.0179	0.0179	100.0	Pass
23	0.0272	0.0272	100.0	Pass
24	0.0277	0.0277	100.0	Pass
25	0.0567	0.0567	100.0	Pass
26	0.0238	0.0238	100.0	Pass
27	0.0352	0.0352	100.0	Pass
28	0.0300	0.0300	100.0	Pass
29	0.0203	0.0203	100.0	Pass
30	0.0328	0.0328	100.0	Pass
31	0.0381	0.0381	100.0	Pass
Aug1	0.1571	0.1571	100.0	Pass
2	0.0647	0.0647	100.0	Pass
3	0.0296	0.0296	100.0	Pass
4	0.0259	0.0259	100.0	Pass
5	0.1849	0.1849	100.0	Pass
6	0.1339	0.1339	100.0	Pass
7	0.0553	0.0553	100.0	Pass
8	0.0497	0.0497	100.0	Pass
9	0.0070	0.0070	100.0	Pass
10	0.0247	0.0247	100.0	Pass
11	0.1139	0.1139	100.0	Pass
12	0.1002	0.1002	100.0	Pass
13	0.1278	0.1278	100.0	Pass
14	0.0876	0.0876	100.0	Pass
15	0.0837	0.0837	100.0	Pass
16	0.0668	0.0668	100.0	Pass
17	0.1150	0.1150	100.0	Pass
18	0.2203	0.2203	100.0	Pass
19	0.0787	0.0787	100.0	Pass
20	0.1759	0.1759	100.0	Pass
21	0.1733	0.1733	100.0	Pass
22	0.3285	0.3285	100.0	Pass
23	0.3309	0.3309	100.0	Pass
24	0.3248	0.3248	100.0	Pass
25	0.1544	0.1544	100.0	Pass
26	0.3267	0.3267	100.0	Pass
27	0.3490	0.3490	100.0	Pass

28	0.3660	0.3660	100.0	Pass
29	0.2385	0.2385	100.0	Pass
30	0.3390	0.3390	100.0	Pass
31	0.5544	0.5544	100.0	Pass
Sep1	0.2802	0.2802	100.0	Pass
2	0.2557	0.2557	100.0	Pass
3	0.2577	0.2577	100.0	Pass
4	0.3022	0.3022	100.0	Pass
5	0.2662	0.2662	100.0	Pass
6	0.1914	0.1914	100.0	Pass
7	0.3238	0.3238	100.0	Pass
8	0.2304	0.2304	100.0	Pass
9	0.5211	0.5211	100.0	Pass
10	0.1605	0.1605	100.0	Pass
11	0.1218	0.1218	100.0	Pass
12	0.2767	0.2767	100.0	Pass
13	0.5284	0.5284	100.0	Pass
14	0.3759	0.3759	100.0	Pass
15	0.5356	0.5356	100.0	Pass
16	0.6164	0.6164	100.0	Pass
17	0.6424	0.6424	100.0	Pass
18	0.5859	0.5859	100.0	Pass
19	0.6489	0.6489	100.0	Pass
20	0.5191	0.5191	100.0	Pass
21	0.6850	0.6850	100.0	Pass
22	0.5623	0.5623	100.0	Pass
23	0.4397	0.4397	100.0	Pass
24	0.3168	0.3168	100.0	Pass
25	0.3074	0.3074	100.0	Pass
26	0.3098	0.3098	100.0	Pass
27	0.4303	0.4303	100.0	Pass
28	0.3658	0.3658	100.0	Pass
29	0.4654	0.4654	100.0	Pass
30	0.3708	0.3708	100.0	Pass
Oct1	0.2739	0.2739	100.0	Pass
2	0.5703	0.5703	100.0	Pass
3	0.5339	0.5339	100.0	Pass
4	0.6724	0.6724	100.0	Pass
5	0.7240	0.7240	100.0	Pass
6	0.7922	0.7922	100.0	Pass
7	1.0282	1.0282	100.0	Pass
8	0.8894	0.8894	100.0	Pass
9	0.7146	0.7146	100.0	Pass
10	0.5906	0.5906	100.0	Pass
11	0.9781	0.9781	100.0	Pass
12	0.7267	0.7267	100.0	Pass
13	0.9345	0.9345	100.0	Pass
14	0.6286	0.6286	100.0	Pass
15	0.6836	0.6836	100.0	Pass
16	0.9040	0.9040	100.0	Pass
17	0.8432	0.8432	100.0	Pass
18	1.3069	1.3069	100.0	Pass
19	1.6458	1.6458	100.0	Pass
20	1.4484	1.4484	100.0	Pass
21	1.7359	1.7359	100.0	Pass
22	1.1709	1.1709	100.0	Pass
23	1.6955	1.6955	100.0	Pass

	24	1.5418	1.5418	100.0	Pass
	25	1.4080	1.4080	100.0	Pass
	26	1.6400	1.6400	100.0	Pass
	27	1.4712	1.4712	100.0	Pass
	28	1.3615	1.3615	100.0	Pass
	29	1.1861	1.1861	100.0	Pass
	30	1.5859	1.5859	100.0	Pass
	31	1.4385	1.4385	100.0	Pass
Nov	1	1.7602	1.7602	100.0	Pass
	2	2.0316	2.0316	100.0	Pass
	3	1.7615	1.7615	100.0	Pass
	4	1.7091	1.7091	100.0	Pass
	5	1.8800	1.8800	100.0	Pass
	6	1.6541	1.6541	100.0	Pass
	7	1.4928	1.4928	100.0	Pass
	8	1.7849	1.7849	100.0	Pass
	9	2.1224	2.1224	100.0	Pass
	10	1.9004	1.9004	100.0	Pass
	11	2.0821	2.0821	100.0	Pass
	12	1.9325	1.9325	100.0	Pass
	13	1.5868	1.5868	100.0	Pass
	14	1.7081	1.7081	100.0	Pass
	15	1.8959	1.8959	100.0	Pass
	16	1.9734	1.9734	100.0	Pass
	17	1.8613	1.8613	100.0	Pass
	18	2.5973	2.5973	100.0	Pass
	19	2.4453	2.4453	100.0	Pass
	20	1.7694	1.7694	100.0	Pass
	21	2.4723	2.4723	100.0	Pass
	22	2.8365	2.8365	100.0	Pass
	23	2.3864	2.3864	100.0	Pass
	24	2.6236	2.6236	100.0	Pass
	25	1.9211	1.9211	100.0	Pass
	26	1.5591	1.5591	100.0	Pass
	27	1.7043	1.7043	100.0	Pass
	28	1.6355	1.6355	100.0	Pass
	29	2.5346	2.5346	100.0	Pass
	30	2.2115	2.2115	100.0	Pass
Dec	1	2.3688	2.3688	100.0	Pass
	2	2.3610	2.3610	100.0	Pass
	3	1.6455	1.6455	100.0	Pass
	4	1.6850	1.6850	100.0	Pass
	5	1.5042	1.5042	100.0	Pass
	6	1.2726	1.2726	100.0	Pass
	7	1.6850	1.6850	100.0	Pass
	8	2.1075	2.1075	100.0	Pass
	9	2.1851	2.1851	100.0	Pass
	10	2.3811	2.3811	100.0	Pass
	11	1.8297	1.8297	100.0	Pass
	12	1.9037	1.9037	100.0	Pass
	13	2.6373	2.6373	100.0	Pass
	14	2.0774	2.0774	100.0	Pass
	15	2.4768	2.4768	100.0	Pass
	16	1.8707	1.8707	100.0	Pass
	17	2.0540	2.0540	100.0	Pass
	18	1.7510	1.7510	100.0	Pass
	19	1.9265	1.9265	100.0	Pass

20	1.9581	1.9581	100.0	Pass
21	2.1556	2.1556	100.0	Pass
22	2.1042	2.1042	100.0	Pass
23	2.2609	2.2609	100.0	Pass
24	2.4521	2.4521	100.0	Pass
25	2.2745	2.2745	100.0	Pass
26	2.0930	2.0930	100.0	Pass
27	1.4807	1.4807	100.0	Pass
28	2.0537	2.0537	100.0	Pass
29	1.5298	1.5298	100.0	Pass
30	1.4961	1.4961	100.0	Pass
31	2.3328	2.3328	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #4

Total Pervious Area:0

Total Impervious Area:0.081

Mitigated Landuse Totals for POC #4

Total Pervious Area:0

Total Impervious Area:0.081

Flow Frequency Return Periods for Predeveloped. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.053183
5 year	0.062718
10 year	0.067981
25 year	0.073774
50 year	0.077603
100 year	0.081096

Flow Frequency Return Periods for Mitigated. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.053183
5 year	0.062718
10 year	0.067981
25 year	0.073774
50 year	0.077603
100 year	0.081096

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #4

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.055	0.055
1957	0.069	0.069
1958	0.054	0.054
1959	0.053	0.053
1960	0.055	0.055

1961	0.046	0.046
1962	0.072	0.072
1963	0.066	0.066
1964	0.058	0.058
1965	0.057	0.057
1966	0.056	0.056
1967	0.037	0.037
1968	0.054	0.054
1969	0.051	0.051
1970	0.050	0.050
1971	0.074	0.074
1972	0.062	0.062
1973	0.059	0.059
1974	0.056	0.056
1975	0.050	0.050
1976	0.061	0.061
1977	0.045	0.045
1978	0.077	0.077
1979	0.048	0.048
1980	0.045	0.045
1981	0.057	0.057
1982	0.066	0.066
1983	0.052	0.052
1984	0.048	0.048
1985	0.038	0.038
1986	0.058	0.058
1987	0.041	0.041
1988	0.062	0.062
1989	0.052	0.052
1990	0.066	0.066
1991	0.047	0.047
1992	0.036	0.036
1993	0.040	0.040
1994	0.050	0.050
1995	0.051	0.051
1996	0.061	0.061
1997	0.058	0.058
1998	0.038	0.038
1999	0.046	0.046
2000	0.043	0.043
2001	0.041	0.041
2002	0.067	0.067
2003	0.070	0.070
2004	0.066	0.066
2005	0.053	0.053
2006	0.053	0.053
2007	0.062	0.062
2008	0.034	0.034
2009	0.033	0.033

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	0.0770	0.0770
2	0.0739	0.0739
3	0.0718	0.0718

4	0.0704	0.0704
5	0.0688	0.0688
6	0.0669	0.0669
7	0.0663	0.0663
8	0.0662	0.0662
9	0.0661	0.0661
10	0.0659	0.0659
11	0.0624	0.0624
12	0.0619	0.0619
13	0.0617	0.0617
14	0.0614	0.0614
15	0.0610	0.0610
16	0.0588	0.0588
17	0.0585	0.0585
18	0.0582	0.0582
19	0.0580	0.0580
20	0.0574	0.0574
21	0.0572	0.0572
22	0.0558	0.0558
23	0.0557	0.0557
24	0.0549	0.0549
25	0.0548	0.0548
26	0.0540	0.0540
27	0.0536	0.0536
28	0.0534	0.0534
29	0.0531	0.0531
30	0.0528	0.0528
31	0.0520	0.0520
32	0.0518	0.0518
33	0.0508	0.0508
34	0.0507	0.0507
35	0.0503	0.0503
36	0.0501	0.0501
37	0.0499	0.0499
38	0.0484	0.0484
39	0.0484	0.0484
40	0.0465	0.0465
41	0.0465	0.0465
42	0.0457	0.0457
43	0.0452	0.0452
44	0.0450	0.0450
45	0.0434	0.0434
46	0.0415	0.0415
47	0.0408	0.0408
48	0.0395	0.0395
49	0.0383	0.0383
50	0.0379	0.0379
51	0.0370	0.0370
52	0.0359	0.0359
53	0.0340	0.0340
54	0.0325	0.0325

Stream Protection Duration
POC #4
The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0266	1243	1243	100	Pass
0.0271	1162	1162	100	Pass
0.0276	1075	1075	100	Pass
0.0281	1007	1007	100	Pass
0.0287	940	940	100	Pass
0.0292	882	882	100	Pass
0.0297	812	812	100	Pass
0.0302	752	752	100	Pass
0.0307	693	693	100	Pass
0.0312	652	652	100	Pass
0.0317	592	592	100	Pass
0.0323	552	552	100	Pass
0.0328	512	512	100	Pass
0.0333	476	476	100	Pass
0.0338	436	436	100	Pass
0.0343	405	405	100	Pass
0.0348	375	375	100	Pass
0.0354	354	354	100	Pass
0.0359	330	330	100	Pass
0.0364	309	309	100	Pass
0.0369	294	294	100	Pass
0.0374	276	276	100	Pass
0.0379	259	259	100	Pass
0.0384	246	246	100	Pass
0.0390	231	231	100	Pass
0.0395	221	221	100	Pass
0.0400	209	209	100	Pass
0.0405	196	196	100	Pass
0.0410	187	187	100	Pass
0.0415	179	179	100	Pass
0.0420	168	168	100	Pass
0.0426	160	160	100	Pass
0.0431	153	153	100	Pass
0.0436	142	142	100	Pass
0.0441	134	134	100	Pass
0.0446	127	127	100	Pass
0.0451	116	116	100	Pass
0.0457	109	109	100	Pass
0.0462	105	105	100	Pass
0.0467	98	98	100	Pass
0.0472	96	96	100	Pass
0.0477	90	90	100	Pass
0.0482	87	87	100	Pass
0.0487	80	80	100	Pass
0.0493	75	75	100	Pass
0.0498	73	73	100	Pass
0.0503	68	68	100	Pass
0.0508	62	62	100	Pass
0.0513	60	60	100	Pass
0.0518	57	57	100	Pass
0.0524	53	53	100	Pass
0.0529	51	51	100	Pass
0.0534	48	48	100	Pass
0.0539	45	45	100	Pass

0.0544	42	42	100	Pass
0.0549	39	39	100	Pass
0.0554	37	37	100	Pass
0.0560	34	34	100	Pass
0.0565	34	34	100	Pass
0.0570	33	33	100	Pass
0.0575	30	30	100	Pass
0.0580	28	28	100	Pass
0.0585	26	26	100	Pass
0.0591	25	25	100	Pass
0.0596	24	24	100	Pass
0.0601	24	24	100	Pass
0.0606	24	24	100	Pass
0.0611	21	21	100	Pass
0.0616	20	20	100	Pass
0.0621	17	17	100	Pass
0.0627	14	14	100	Pass
0.0632	14	14	100	Pass
0.0637	13	13	100	Pass
0.0642	13	13	100	Pass
0.0647	12	12	100	Pass
0.0652	12	12	100	Pass
0.0658	12	12	100	Pass
0.0663	9	9	100	Pass
0.0668	8	8	100	Pass
0.0673	6	6	100	Pass
0.0678	6	6	100	Pass
0.0683	6	6	100	Pass
0.0688	5	5	100	Pass
0.0694	4	4	100	Pass
0.0699	4	4	100	Pass
0.0704	3	3	100	Pass
0.0709	3	3	100	Pass
0.0714	3	3	100	Pass
0.0719	2	2	100	Pass
0.0725	2	2	100	Pass
0.0730	2	2	100	Pass
0.0735	2	2	100	Pass
0.0740	1	1	100	Pass
0.0745	1	1	100	Pass
0.0750	1	1	100	Pass
0.0755	1	1	100	Pass
0.0761	1	1	100	Pass
0.0766	1	1	100	Pass
0.0771	0	0	100	Pass
0.0776	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 4

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	3.2305	3.2305	100.0	Pass
Feb	2.4631	2.4631	100.0	Pass
Mar	2.1867	2.1867	100.0	Pass
Apr	1.2339	1.2339	100.0	Pass
May	0.6862	0.6862	100.0	Pass
Jun	0.4631	0.4631	100.0	Pass
Jul	0.2335	0.2335	100.0	Pass
Aug	0.3545	0.3545	100.0	Pass
Sep	0.7879	0.7879	100.0	Pass
Oct	1.8814	1.8814	100.0	Pass
Nov	3.1061	3.1061	100.0	Pass
Dec	3.1164	3.1164	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.1041	0.1041	100.0	Pass
2	0.0797	0.0797	100.0	Pass
3	0.1051	0.1051	100.0	Pass
4	0.1257	0.1257	100.0	Pass
5	0.0866	0.0866	100.0	Pass
6	0.1379	0.1379	100.0	Pass
7	0.1014	0.1014	100.0	Pass
8	0.1032	0.1032	100.0	Pass
9	0.1122	0.1122	100.0	Pass
10	0.1070	0.1070	100.0	Pass
11	0.1333	0.1333	100.0	Pass
12	0.1009	0.1009	100.0	Pass
13	0.1317	0.1317	100.0	Pass
14	0.1300	0.1300	100.0	Pass
15	0.1173	0.1173	100.0	Pass
16	0.0930	0.0930	100.0	Pass
17	0.0901	0.0901	100.0	Pass
18	0.0794	0.0794	100.0	Pass
19	0.0811	0.0811	100.0	Pass
20	0.0502	0.0502	100.0	Pass
21	0.1095	0.1095	100.0	Pass
22	0.1289	0.1289	100.0	Pass
23	0.1424	0.1424	100.0	Pass
24	0.0917	0.0917	100.0	Pass
25	0.0775	0.0775	100.0	Pass
26	0.0701	0.0701	100.0	Pass
27	0.0936	0.0936	100.0	Pass
28	0.1204	0.1204	100.0	Pass
29	0.0881	0.0881	100.0	Pass
30	0.1077	0.1077	100.0	Pass
31	0.0598	0.0598	100.0	Pass
Feb1	0.0717	0.0717	100.0	Pass
2	0.0662	0.0662	100.0	Pass
3	0.0591	0.0591	100.0	Pass
4	0.0547	0.0547	100.0	Pass
5	0.1074	0.1074	100.0	Pass
6	0.0481	0.0481	100.0	Pass
7	0.0769	0.0769	100.0	Pass
8	0.0562	0.0562	100.0	Pass

9	0.0709	0.0709	100.0	Pass
10	0.0957	0.0957	100.0	Pass
11	0.1248	0.1248	100.0	Pass
12	0.0931	0.0931	100.0	Pass
13	0.1027	0.1027	100.0	Pass
14	0.1480	0.1480	100.0	Pass
15	0.1007	0.1007	100.0	Pass
16	0.1385	0.1385	100.0	Pass
17	0.1187	0.1187	100.0	Pass
18	0.0896	0.0896	100.0	Pass
19	0.0787	0.0787	100.0	Pass
20	0.0768	0.0768	100.0	Pass
21	0.0628	0.0628	100.0	Pass
22	0.0967	0.0967	100.0	Pass
23	0.0906	0.0906	100.0	Pass
24	0.1001	0.1001	100.0	Pass
25	0.0878	0.0878	100.0	Pass
26	0.0859	0.0859	100.0	Pass
27	0.0746	0.0746	100.0	Pass
28	0.1031	0.1031	100.0	Pass
29	0.0727	0.0727	100.0	Pass
Mar1	0.0723	0.0723	100.0	Pass
2	0.0577	0.0577	100.0	Pass
3	0.0860	0.0860	100.0	Pass
4	0.0892	0.0892	100.0	Pass
5	0.0684	0.0684	100.0	Pass
6	0.0877	0.0877	100.0	Pass
7	0.0872	0.0872	100.0	Pass
8	0.0833	0.0833	100.0	Pass
9	0.0835	0.0835	100.0	Pass
10	0.0714	0.0714	100.0	Pass
11	0.0788	0.0788	100.0	Pass
12	0.0693	0.0693	100.0	Pass
13	0.0857	0.0857	100.0	Pass
14	0.0658	0.0658	100.0	Pass
15	0.0528	0.0528	100.0	Pass
16	0.0521	0.0521	100.0	Pass
17	0.0725	0.0725	100.0	Pass
18	0.0416	0.0416	100.0	Pass
19	0.0675	0.0675	100.0	Pass
20	0.0528	0.0528	100.0	Pass
21	0.0935	0.0935	100.0	Pass
22	0.1037	0.1037	100.0	Pass
23	0.0816	0.0816	100.0	Pass
24	0.0488	0.0488	100.0	Pass
25	0.0834	0.0834	100.0	Pass
26	0.0573	0.0573	100.0	Pass
27	0.0567	0.0567	100.0	Pass
28	0.0636	0.0636	100.0	Pass
29	0.0583	0.0583	100.0	Pass
30	0.0419	0.0419	100.0	Pass
31	0.0337	0.0337	100.0	Pass
Apr1	0.0376	0.0376	100.0	Pass
2	0.0432	0.0432	100.0	Pass
3	0.0617	0.0617	100.0	Pass
4	0.0538	0.0538	100.0	Pass
5	0.0570	0.0570	100.0	Pass

6	0.0282	0.0282	100.0	Pass
7	0.0528	0.0528	100.0	Pass
8	0.0519	0.0519	100.0	Pass
9	0.0462	0.0462	100.0	Pass
10	0.0448	0.0448	100.0	Pass
11	0.0652	0.0652	100.0	Pass
12	0.0533	0.0533	100.0	Pass
13	0.0565	0.0565	100.0	Pass
14	0.0467	0.0467	100.0	Pass
15	0.0504	0.0504	100.0	Pass
16	0.0254	0.0254	100.0	Pass
17	0.0393	0.0393	100.0	Pass
18	0.0458	0.0458	100.0	Pass
19	0.0220	0.0220	100.0	Pass
20	0.0228	0.0228	100.0	Pass
21	0.0417	0.0417	100.0	Pass
22	0.0337	0.0337	100.0	Pass
23	0.0287	0.0287	100.0	Pass
24	0.0228	0.0228	100.0	Pass
25	0.0290	0.0290	100.0	Pass
26	0.0490	0.0490	100.0	Pass
27	0.0364	0.0364	100.0	Pass
28	0.0381	0.0381	100.0	Pass
29	0.0164	0.0164	100.0	Pass
30	0.0251	0.0251	100.0	Pass
May1	0.0409	0.0409	100.0	Pass
2	0.0276	0.0276	100.0	Pass
3	0.0306	0.0306	100.0	Pass
4	0.0232	0.0232	100.0	Pass
5	0.0228	0.0228	100.0	Pass
6	0.0193	0.0193	100.0	Pass
7	0.0265	0.0265	100.0	Pass
8	0.0151	0.0151	100.0	Pass
9	0.0229	0.0229	100.0	Pass
10	0.0180	0.0180	100.0	Pass
11	0.0171	0.0171	100.0	Pass
12	0.0248	0.0248	100.0	Pass
13	0.0267	0.0267	100.0	Pass
14	0.0261	0.0261	100.0	Pass
15	0.0160	0.0160	100.0	Pass
16	0.0226	0.0226	100.0	Pass
17	0.0179	0.0179	100.0	Pass
18	0.0311	0.0311	100.0	Pass
19	0.0148	0.0148	100.0	Pass
20	0.0152	0.0152	100.0	Pass
21	0.0156	0.0156	100.0	Pass
22	0.0199	0.0199	100.0	Pass
23	0.0169	0.0169	100.0	Pass
24	0.0177	0.0177	100.0	Pass
25	0.0145	0.0145	100.0	Pass
26	0.0266	0.0266	100.0	Pass
27	0.0200	0.0200	100.0	Pass
28	0.0221	0.0221	100.0	Pass
29	0.0302	0.0302	100.0	Pass
30	0.0186	0.0186	100.0	Pass
31	0.0204	0.0204	100.0	Pass
Jun1	0.0146	0.0146	100.0	Pass

	2	0.0271	0.0271	100.0	Pass
	3	0.0254	0.0254	100.0	Pass
	4	0.0174	0.0174	100.0	Pass
	5	0.0308	0.0308	100.0	Pass
	6	0.0099	0.0099	100.0	Pass
	7	0.0169	0.0169	100.0	Pass
	8	0.0246	0.0246	100.0	Pass
	9	0.0180	0.0180	100.0	Pass
	10	0.0176	0.0176	100.0	Pass
	11	0.0124	0.0124	100.0	Pass
	12	0.0159	0.0159	100.0	Pass
	13	0.0255	0.0255	100.0	Pass
	14	0.0093	0.0093	100.0	Pass
	15	0.0206	0.0206	100.0	Pass
	16	0.0080	0.0080	100.0	Pass
	17	0.0125	0.0125	100.0	Pass
	18	0.0078	0.0078	100.0	Pass
	19	0.0103	0.0103	100.0	Pass
	20	0.0115	0.0115	100.0	Pass
	21	0.0113	0.0113	100.0	Pass
	22	0.0057	0.0057	100.0	Pass
	23	0.0336	0.0336	100.0	Pass
	24	0.0071	0.0071	100.0	Pass
	25	0.0140	0.0140	100.0	Pass
	26	0.0082	0.0082	100.0	Pass
	27	0.0077	0.0077	100.0	Pass
	28	0.0081	0.0081	100.0	Pass
	29	0.0108	0.0108	100.0	Pass
	30	0.0233	0.0233	100.0	Pass
Jul	1	0.0049	0.0049	100.0	Pass
	2	0.0046	0.0046	100.0	Pass
	3	0.0053	0.0053	100.0	Pass
	4	0.0138	0.0138	100.0	Pass
	5	0.0101	0.0101	100.0	Pass
	6	0.0076	0.0076	100.0	Pass
	7	0.0145	0.0145	100.0	Pass
	8	0.0075	0.0075	100.0	Pass
	9	0.0172	0.0172	100.0	Pass
	10	0.0107	0.0107	100.0	Pass
	11	0.0219	0.0219	100.0	Pass
	12	0.0093	0.0093	100.0	Pass
	13	0.0073	0.0073	100.0	Pass
	14	0.0127	0.0127	100.0	Pass
	15	0.0047	0.0047	100.0	Pass
	16	0.0030	0.0030	100.0	Pass
	17	0.0113	0.0113	100.0	Pass
	18	0.0032	0.0032	100.0	Pass
	19	0.0044	0.0044	100.0	Pass
	20	0.0083	0.0083	100.0	Pass
	21	0.0063	0.0063	100.0	Pass
	22	0.0002	0.0002	100.0	Pass
	23	0.0018	0.0018	100.0	Pass
	24	0.0022	0.0022	100.0	Pass
	25	0.0050	0.0050	100.0	Pass
	26	0.0021	0.0021	100.0	Pass
	27	0.0032	0.0032	100.0	Pass
	28	0.0026	0.0026	100.0	Pass

29	0.0016	0.0016	100.0	Pass
30	0.0029	0.0029	100.0	Pass
31	0.0034	0.0034	100.0	Pass
Aug1	0.0138	0.0138	100.0	Pass
2	0.0044	0.0044	100.0	Pass
3	0.0015	0.0015	100.0	Pass
4	0.0016	0.0016	100.0	Pass
5	0.0154	0.0154	100.0	Pass
6	0.0099	0.0099	100.0	Pass
7	0.0033	0.0033	100.0	Pass
8	0.0036	0.0036	100.0	Pass
9	0.0001	0.0001	100.0	Pass
10	0.0019	0.0019	100.0	Pass
11	0.0101	0.0101	100.0	Pass
12	0.0085	0.0085	100.0	Pass
13	0.0106	0.0106	100.0	Pass
14	0.0062	0.0062	100.0	Pass
15	0.0053	0.0053	100.0	Pass
16	0.0047	0.0047	100.0	Pass
17	0.0099	0.0099	100.0	Pass
18	0.0191	0.0191	100.0	Pass
19	0.0046	0.0046	100.0	Pass
20	0.0146	0.0146	100.0	Pass
21	0.0131	0.0131	100.0	Pass
22	0.0258	0.0258	100.0	Pass
23	0.0235	0.0235	100.0	Pass
24	0.0190	0.0190	100.0	Pass
25	0.0068	0.0068	100.0	Pass
26	0.0246	0.0246	100.0	Pass
27	0.0246	0.0246	100.0	Pass
28	0.0241	0.0241	100.0	Pass
29	0.0148	0.0148	100.0	Pass
30	0.0256	0.0256	100.0	Pass
31	0.0401	0.0401	100.0	Pass
Sep1	0.0133	0.0133	100.0	Pass
2	0.0146	0.0146	100.0	Pass
3	0.0164	0.0164	100.0	Pass
4	0.0214	0.0214	100.0	Pass
5	0.0180	0.0180	100.0	Pass
6	0.0120	0.0120	100.0	Pass
7	0.0252	0.0252	100.0	Pass
8	0.0152	0.0152	100.0	Pass
9	0.0411	0.0411	100.0	Pass
10	0.0084	0.0084	100.0	Pass
11	0.0075	0.0075	100.0	Pass
12	0.0217	0.0217	100.0	Pass
13	0.0404	0.0404	100.0	Pass
14	0.0244	0.0244	100.0	Pass
15	0.0381	0.0381	100.0	Pass
16	0.0389	0.0389	100.0	Pass
17	0.0433	0.0433	100.0	Pass
18	0.0387	0.0387	100.0	Pass
19	0.0407	0.0407	100.0	Pass
20	0.0283	0.0283	100.0	Pass
21	0.0403	0.0403	100.0	Pass
22	0.0319	0.0319	100.0	Pass
23	0.0252	0.0252	100.0	Pass

24	0.0181	0.0181	100.0	Pass
25	0.0201	0.0201	100.0	Pass
26	0.0203	0.0203	100.0	Pass
27	0.0275	0.0275	100.0	Pass
28	0.0241	0.0241	100.0	Pass
29	0.0326	0.0326	100.0	Pass
30	0.0225	0.0225	100.0	Pass
Oct1	0.0153	0.0153	100.0	Pass
2	0.0429	0.0429	100.0	Pass
3	0.0375	0.0375	100.0	Pass
4	0.0452	0.0452	100.0	Pass
5	0.0477	0.0477	100.0	Pass
6	0.0530	0.0530	100.0	Pass
7	0.0674	0.0674	100.0	Pass
8	0.0531	0.0531	100.0	Pass
9	0.0404	0.0404	100.0	Pass
10	0.0328	0.0328	100.0	Pass
11	0.0669	0.0669	100.0	Pass
12	0.0427	0.0427	100.0	Pass
13	0.0622	0.0622	100.0	Pass
14	0.0324	0.0324	100.0	Pass
15	0.0402	0.0402	100.0	Pass
16	0.0548	0.0548	100.0	Pass
17	0.0495	0.0495	100.0	Pass
18	0.0809	0.0809	100.0	Pass
19	0.0985	0.0985	100.0	Pass
20	0.0841	0.0841	100.0	Pass
21	0.1020	0.1020	100.0	Pass
22	0.0554	0.0554	100.0	Pass
23	0.0991	0.0991	100.0	Pass
24	0.0852	0.0852	100.0	Pass
25	0.0753	0.0753	100.0	Pass
26	0.0933	0.0933	100.0	Pass
27	0.0768	0.0768	100.0	Pass
28	0.0717	0.0717	100.0	Pass
29	0.0595	0.0595	100.0	Pass
30	0.0935	0.0935	100.0	Pass
31	0.0757	0.0757	100.0	Pass
Nov1	0.0972	0.0972	100.0	Pass
2	0.1206	0.1206	100.0	Pass
3	0.0880	0.0880	100.0	Pass
4	0.0917	0.0917	100.0	Pass
5	0.1017	0.1017	100.0	Pass
6	0.0823	0.0823	100.0	Pass
7	0.0748	0.0748	100.0	Pass
8	0.1011	0.1011	100.0	Pass
9	0.1191	0.1191	100.0	Pass
10	0.0993	0.0993	100.0	Pass
11	0.1124	0.1124	100.0	Pass
12	0.1038	0.1038	100.0	Pass
13	0.0732	0.0732	100.0	Pass
14	0.0906	0.0906	100.0	Pass
15	0.1026	0.1026	100.0	Pass
16	0.1073	0.1073	100.0	Pass
17	0.0962	0.0962	100.0	Pass
18	0.1462	0.1462	100.0	Pass
19	0.1267	0.1267	100.0	Pass

20	0.0789	0.0789	100.0	Pass
21	0.1343	0.1343	100.0	Pass
22	0.1615	0.1615	100.0	Pass
23	0.1156	0.1156	100.0	Pass
24	0.1358	0.1358	100.0	Pass
25	0.0834	0.0834	100.0	Pass
26	0.0678	0.0678	100.0	Pass
27	0.0887	0.0887	100.0	Pass
28	0.0843	0.0843	100.0	Pass
29	0.1460	0.1460	100.0	Pass
30	0.1103	0.1103	100.0	Pass
Dec1	0.1242	0.1242	100.0	Pass
2	0.1181	0.1181	100.0	Pass
3	0.0713	0.0713	100.0	Pass
4	0.0838	0.0838	100.0	Pass
5	0.0701	0.0701	100.0	Pass
6	0.0618	0.0618	100.0	Pass
7	0.0941	0.0941	100.0	Pass
8	0.1186	0.1186	100.0	Pass
9	0.1145	0.1145	100.0	Pass
10	0.1228	0.1228	100.0	Pass
11	0.0865	0.0865	100.0	Pass
12	0.0963	0.0963	100.0	Pass
13	0.1498	0.1498	100.0	Pass
14	0.0956	0.0956	100.0	Pass
15	0.1331	0.1331	100.0	Pass
16	0.0829	0.0829	100.0	Pass
17	0.1049	0.1049	100.0	Pass
18	0.0842	0.0842	100.0	Pass
19	0.1032	0.1032	100.0	Pass
20	0.0988	0.0988	100.0	Pass
21	0.1087	0.1087	100.0	Pass
22	0.1076	0.1076	100.0	Pass
23	0.1177	0.1177	100.0	Pass
24	0.1321	0.1321	100.0	Pass
25	0.1097	0.1097	100.0	Pass
26	0.0994	0.0994	100.0	Pass
27	0.0642	0.0642	100.0	Pass
28	0.1112	0.1112	100.0	Pass
29	0.0675	0.0675	100.0	Pass
30	0.0738	0.0738	100.0	Pass
31	0.1310	0.1310	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #5
Total Pervious Area:0.993
Total Impervious Area:0

Mitigated Landuse Totals for POC #5
Total Pervious Area:0.993

Total Impervious Area:0

Flow Frequency Return Periods for Predeveloped. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.335265
5 year	0.465991
10 year	0.540907
25 year	0.623767
50 year	0.678047
100 year	0.72685

Flow Frequency Return Periods for Mitigated. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.335265
5 year	0.465991
10 year	0.540907
25 year	0.623767
50 year	0.678047
100 year	0.72685

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #5

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.464	0.464
1957	0.457	0.457
1958	0.284	0.284
1959	0.414	0.414
1960	0.454	0.454
1961	0.295	0.295
1962	0.607	0.607
1963	0.520	0.520
1964	0.351	0.351
1965	0.413	0.413
1966	0.455	0.455
1967	0.192	0.192
1968	0.388	0.388
1969	0.423	0.423
1970	0.225	0.225
1971	0.594	0.594
1972	0.546	0.546
1973	0.372	0.372
1974	0.465	0.465
1975	0.342	0.342
1976	0.451	0.451
1977	0.263	0.263
1978	0.507	0.507
1979	0.338	0.338
1980	0.296	0.296
1981	0.346	0.346
1982	0.391	0.391
1983	0.320	0.320
1984	0.343	0.343
1985	0.127	0.127
1986	0.401	0.401
1987	0.258	0.258

1988	0.433	0.433
1989	0.314	0.314
1990	0.537	0.537
1991	0.284	0.284
1992	0.191	0.191
1993	0.149	0.149
1994	0.307	0.307
1995	0.152	0.152
1996	0.157	0.157
1997	0.324	0.324
1998	0.158	0.158
1999	0.277	0.277
2000	0.253	0.253
2001	0.149	0.149
2002	0.263	0.263
2003	0.606	0.606
2004	0.502	0.502
2005	0.349	0.349
2006	0.385	0.385
2007	0.492	0.492
2008	0.138	0.138
2009	0.121	0.121

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	0.6070	0.6070
2	0.6055	0.6055
3	0.5938	0.5938
4	0.5462	0.5462
5	0.5368	0.5368
6	0.5203	0.5203
7	0.5074	0.5074
8	0.5022	0.5022
9	0.4925	0.4925
10	0.4646	0.4646
11	0.4643	0.4643
12	0.4574	0.4574
13	0.4553	0.4553
14	0.4539	0.4539
15	0.4509	0.4509
16	0.4333	0.4333
17	0.4230	0.4230
18	0.4142	0.4142
19	0.4132	0.4132
20	0.4012	0.4012
21	0.3912	0.3912
22	0.3881	0.3881
23	0.3846	0.3846
24	0.3718	0.3718
25	0.3514	0.3514
26	0.3493	0.3493
27	0.3463	0.3463
28	0.3428	0.3428
29	0.3419	0.3419
30	0.3377	0.3377

31	0.3237	0.3237
32	0.3197	0.3197
33	0.3145	0.3145
34	0.3074	0.3074
35	0.2963	0.2963
36	0.2947	0.2947
37	0.2845	0.2845
38	0.2839	0.2839
39	0.2769	0.2769
40	0.2632	0.2632
41	0.2625	0.2625
42	0.2578	0.2578
43	0.2528	0.2528
44	0.2246	0.2246
45	0.1924	0.1924
46	0.1909	0.1909
47	0.1581	0.1581
48	0.1570	0.1570
49	0.1518	0.1518
50	0.1493	0.1493
51	0.1486	0.1486
52	0.1381	0.1381
53	0.1273	0.1273
54	0.1210	0.1210

Stream Protection Duration

POC #5

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1676	478	478	100	Pass
0.1728	450	450	100	Pass
0.1779	418	418	100	Pass
0.1831	386	386	100	Pass
0.1883	360	360	100	Pass
0.1934	337	337	100	Pass
0.1986	313	313	100	Pass
0.2037	288	288	100	Pass
0.2089	272	272	100	Pass
0.2140	253	253	100	Pass
0.2192	241	241	100	Pass
0.2243	226	226	100	Pass
0.2295	205	205	100	Pass
0.2347	191	191	100	Pass
0.2398	185	185	100	Pass
0.2450	175	175	100	Pass
0.2501	167	167	100	Pass
0.2553	159	159	100	Pass
0.2604	153	153	100	Pass
0.2656	141	141	100	Pass
0.2707	132	132	100	Pass
0.2759	125	125	100	Pass
0.2811	118	118	100	Pass
0.2862	110	110	100	Pass

0.2914	106	106	100	Pass
0.2965	101	101	100	Pass
0.3017	95	95	100	Pass
0.3068	93	93	100	Pass
0.3120	86	86	100	Pass
0.3171	79	79	100	Pass
0.3223	77	77	100	Pass
0.3275	75	75	100	Pass
0.3326	74	74	100	Pass
0.3378	72	72	100	Pass
0.3429	68	68	100	Pass
0.3481	60	60	100	Pass
0.3532	57	57	100	Pass
0.3584	57	57	100	Pass
0.3635	53	53	100	Pass
0.3687	51	51	100	Pass
0.3739	47	47	100	Pass
0.3790	46	46	100	Pass
0.3842	44	44	100	Pass
0.3893	42	42	100	Pass
0.3945	40	40	100	Pass
0.3996	40	40	100	Pass
0.4048	37	37	100	Pass
0.4100	35	35	100	Pass
0.4151	32	32	100	Pass
0.4203	30	30	100	Pass
0.4254	28	28	100	Pass
0.4306	26	26	100	Pass
0.4357	24	24	100	Pass
0.4409	24	24	100	Pass
0.4460	23	23	100	Pass
0.4512	22	22	100	Pass
0.4564	20	20	100	Pass
0.4615	17	17	100	Pass
0.4667	14	14	100	Pass
0.4718	13	13	100	Pass
0.4770	13	13	100	Pass
0.4821	13	13	100	Pass
0.4873	12	12	100	Pass
0.4924	12	12	100	Pass
0.4976	10	10	100	Pass
0.5028	10	10	100	Pass
0.5079	9	9	100	Pass
0.5131	8	8	100	Pass
0.5182	8	8	100	Pass
0.5234	7	7	100	Pass
0.5285	7	7	100	Pass
0.5337	7	7	100	Pass
0.5388	6	6	100	Pass
0.5440	6	6	100	Pass
0.5492	5	5	100	Pass
0.5543	5	5	100	Pass
0.5595	5	5	100	Pass
0.5646	5	5	100	Pass
0.5698	5	5	100	Pass
0.5749	5	5	100	Pass
0.5801	4	4	100	Pass

0.5852	4	4	100	Pass
0.5904	3	3	100	Pass
0.5956	2	2	100	Pass
0.6007	2	2	100	Pass
0.6059	2	2	100	Pass
0.6110	0	0	100	Pass
0.6162	0	0	0	Pass
0.6213	0	0	0	Pass
0.6265	0	0	0	Pass
0.6316	0	0	0	Pass
0.6368	0	0	0	Pass
0.6420	0	0	0	Pass
0.6471	0	0	0	Pass
0.6523	0	0	0	Pass
0.6574	0	0	0	Pass
0.6626	0	0	0	Pass
0.6677	0	0	0	Pass
0.6729	0	0	0	Pass
0.6780	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #5
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 5

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	30.8887	30.8887	100.0	Pass
Feb	24.1386	24.1386	100.0	Pass
Mar	21.0551	21.0551	100.0	Pass
Apr	10.7869	10.7869	100.0	Pass
May	4.2825	4.2825	100.0	Pass
Jun	2.3706	2.3706	100.0	Pass
Jul	0.9154	0.9154	100.0	Pass
Aug	1.1209	1.1209	100.0	Pass
Sep	3.8049	3.8049	100.0	Pass
Oct	12.4734	12.4734	100.0	Pass
Nov	27.0554	27.0554	100.0	Pass
Dec	29.8150	29.8150	100.0	Pass

Day

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.9677	0.9677	100.0	Pass
2	0.8689	0.8689	100.0	Pass
3	0.9294	0.9294	100.0	Pass
4	0.9825	0.9825	100.0	Pass
5	0.9477	0.9477	100.0	Pass
6	1.0494	1.0494	100.0	Pass
7	1.0738	1.0738	100.0	Pass
8	1.0152	1.0152	100.0	Pass
9	0.9804	0.9804	100.0	Pass

10	1.0505	1.0505	100.0	Pass
11	1.1678	1.1678	100.0	Pass
12	1.1024	1.1024	100.0	Pass
13	1.1669	1.1669	100.0	Pass
14	1.2314	1.2314	100.0	Pass
15	1.1904	1.1904	100.0	Pass
16	1.1293	1.1293	100.0	Pass
17	1.0337	1.0337	100.0	Pass
18	0.9200	0.9200	100.0	Pass
19	0.8328	0.8328	100.0	Pass
20	0.6933	0.6933	100.0	Pass
21	0.6895	0.6895	100.0	Pass
22	1.0183	1.0183	100.0	Pass
23	1.2310	1.2310	100.0	Pass
24	1.1070	1.1070	100.0	Pass
25	0.9495	0.9495	100.0	Pass
26	0.8521	0.8521	100.0	Pass
27	0.8316	0.8316	100.0	Pass
28	0.9929	0.9929	100.0	Pass
29	0.9542	0.9542	100.0	Pass
30	0.9559	0.9559	100.0	Pass
31	0.8125	0.8125	100.0	Pass
Feb1	0.7552	0.7552	100.0	Pass
2	0.6534	0.6534	100.0	Pass
3	0.6251	0.6251	100.0	Pass
4	0.5803	0.5803	100.0	Pass
5	0.7482	0.7482	100.0	Pass
6	0.6830	0.6830	100.0	Pass
7	0.6538	0.6538	100.0	Pass
8	0.6044	0.6044	100.0	Pass
9	0.5745	0.5745	100.0	Pass
10	0.6964	0.6964	100.0	Pass
11	0.9808	0.9808	100.0	Pass
12	0.9892	0.9892	100.0	Pass
13	0.9333	0.9333	100.0	Pass
14	1.0975	1.0975	100.0	Pass
15	1.1455	1.1455	100.0	Pass
16	1.1832	1.1832	100.0	Pass
17	1.1957	1.1957	100.0	Pass
18	1.1394	1.1394	100.0	Pass
19	0.9579	0.9579	100.0	Pass
20	0.8756	0.8756	100.0	Pass
21	0.7210	0.7210	100.0	Pass
22	0.8275	0.8275	100.0	Pass
23	0.8525	0.8525	100.0	Pass
24	0.9213	0.9213	100.0	Pass
25	0.9067	0.9067	100.0	Pass
26	0.9201	0.9201	100.0	Pass
27	0.8383	0.8383	100.0	Pass
28	1.0324	1.0324	100.0	Pass
29	0.7616	0.7616	100.0	Pass
Mar1	0.7175	0.7175	100.0	Pass
2	0.6494	0.6494	100.0	Pass
3	0.7084	0.7084	100.0	Pass
4	0.7824	0.7824	100.0	Pass
5	0.6993	0.6993	100.0	Pass
6	0.8215	0.8215	100.0	Pass

7	0.7535	0.7535	100.0	Pass
8	0.7946	0.7946	100.0	Pass
9	0.7980	0.7980	100.0	Pass
10	0.7609	0.7609	100.0	Pass
11	0.7634	0.7634	100.0	Pass
12	0.6961	0.6961	100.0	Pass
13	0.7667	0.7667	100.0	Pass
14	0.7094	0.7094	100.0	Pass
15	0.6042	0.6042	100.0	Pass
16	0.5292	0.5292	100.0	Pass
17	0.6410	0.6410	100.0	Pass
18	0.5131	0.5131	100.0	Pass
19	0.5412	0.5412	100.0	Pass
20	0.5083	0.5083	100.0	Pass
21	0.6485	0.6485	100.0	Pass
22	0.7747	0.7747	100.0	Pass
23	0.8324	0.8324	100.0	Pass
24	0.6986	0.6986	100.0	Pass
25	0.6943	0.6943	100.0	Pass
26	0.6617	0.6617	100.0	Pass
27	0.5518	0.5518	100.0	Pass
28	0.6166	0.6166	100.0	Pass
29	0.5607	0.5607	100.0	Pass
30	0.4967	0.4967	100.0	Pass
31	0.3996	0.3996	100.0	Pass
Apr1	0.3632	0.3632	100.0	Pass
2	0.3657	0.3657	100.0	Pass
3	0.3977	0.3977	100.0	Pass
4	0.4536	0.4536	100.0	Pass
5	0.5341	0.5341	100.0	Pass
6	0.3933	0.3933	100.0	Pass
7	0.3861	0.3861	100.0	Pass
8	0.4489	0.4489	100.0	Pass
9	0.3876	0.3876	100.0	Pass
10	0.4277	0.4277	100.0	Pass
11	0.4196	0.4196	100.0	Pass
12	0.4743	0.4743	100.0	Pass
13	0.4556	0.4556	100.0	Pass
14	0.4521	0.4521	100.0	Pass
15	0.4697	0.4697	100.0	Pass
16	0.3675	0.3675	100.0	Pass
17	0.3239	0.3239	100.0	Pass
18	0.3437	0.3437	100.0	Pass
19	0.3046	0.3046	100.0	Pass
20	0.2285	0.2285	100.0	Pass
21	0.2546	0.2546	100.0	Pass
22	0.2523	0.2523	100.0	Pass
23	0.2560	0.2560	100.0	Pass
24	0.2190	0.2190	100.0	Pass
25	0.2003	0.2003	100.0	Pass
26	0.3244	0.3244	100.0	Pass
27	0.3161	0.3161	100.0	Pass
28	0.3261	0.3261	100.0	Pass
29	0.2417	0.2417	100.0	Pass
30	0.1869	0.1869	100.0	Pass
May1	0.2128	0.2128	100.0	Pass
2	0.2364	0.2364	100.0	Pass

3	0.2085	0.2085	100.0	Pass
4	0.2053	0.2053	100.0	Pass
5	0.1782	0.1782	100.0	Pass
6	0.1478	0.1478	100.0	Pass
7	0.1592	0.1592	100.0	Pass
8	0.1417	0.1417	100.0	Pass
9	0.1310	0.1310	100.0	Pass
10	0.1160	0.1160	100.0	Pass
11	0.1029	0.1029	100.0	Pass
12	0.1328	0.1328	100.0	Pass
13	0.1422	0.1422	100.0	Pass
14	0.1391	0.1391	100.0	Pass
15	0.1499	0.1499	100.0	Pass
16	0.1219	0.1219	100.0	Pass
17	0.1252	0.1252	100.0	Pass
18	0.1236	0.1236	100.0	Pass
19	0.1217	0.1217	100.0	Pass
20	0.0879	0.0879	100.0	Pass
21	0.0900	0.0900	100.0	Pass
22	0.0830	0.0830	100.0	Pass
23	0.0957	0.0957	100.0	Pass
24	0.1018	0.1018	100.0	Pass
25	0.0967	0.0967	100.0	Pass
26	0.1158	0.1158	100.0	Pass
27	0.1215	0.1215	100.0	Pass
28	0.1157	0.1157	100.0	Pass
29	0.1550	0.1550	100.0	Pass
30	0.1366	0.1366	100.0	Pass
31	0.1424	0.1424	100.0	Pass
Jun1	0.1348	0.1348	100.0	Pass
2	0.1073	0.1073	100.0	Pass
3	0.1114	0.1114	100.0	Pass
4	0.1091	0.1091	100.0	Pass
5	0.1248	0.1248	100.0	Pass
6	0.1118	0.1118	100.0	Pass
7	0.1081	0.1081	100.0	Pass
8	0.1211	0.1211	100.0	Pass
9	0.1083	0.1083	100.0	Pass
10	0.0854	0.0854	100.0	Pass
11	0.0762	0.0762	100.0	Pass
12	0.0622	0.0622	100.0	Pass
13	0.0935	0.0935	100.0	Pass
14	0.0833	0.0833	100.0	Pass
15	0.0896	0.0896	100.0	Pass
16	0.0795	0.0795	100.0	Pass
17	0.0674	0.0674	100.0	Pass
18	0.0714	0.0714	100.0	Pass
19	0.0444	0.0444	100.0	Pass
20	0.0366	0.0366	100.0	Pass
21	0.0490	0.0490	100.0	Pass
22	0.0414	0.0414	100.0	Pass
23	0.0613	0.0613	100.0	Pass
24	0.0857	0.0857	100.0	Pass
25	0.0585	0.0585	100.0	Pass
26	0.0398	0.0398	100.0	Pass
27	0.0248	0.0248	100.0	Pass
28	0.0212	0.0212	100.0	Pass

29	0.0205	0.0205	100.0	Pass
30	0.0562	0.0562	100.0	Pass
Jul11	0.0455	0.0455	100.0	Pass
2	0.0250	0.0250	100.0	Pass
3	0.0153	0.0153	100.0	Pass
4	0.0100	0.0100	100.0	Pass
5	0.0148	0.0148	100.0	Pass
6	0.0134	0.0134	100.0	Pass
7	0.0344	0.0344	100.0	Pass
8	0.0446	0.0446	100.0	Pass
9	0.0405	0.0405	100.0	Pass
10	0.0451	0.0451	100.0	Pass
11	0.0954	0.0954	100.0	Pass
12	0.1178	0.1178	100.0	Pass
13	0.0719	0.0719	100.0	Pass
14	0.0530	0.0530	100.0	Pass
15	0.0361	0.0361	100.0	Pass
16	0.0211	0.0211	100.0	Pass
17	0.0313	0.0313	100.0	Pass
18	0.0340	0.0340	100.0	Pass
19	0.0221	0.0221	100.0	Pass
20	0.0174	0.0174	100.0	Pass
21	0.0270	0.0270	100.0	Pass
22	0.0167	0.0167	100.0	Pass
23	0.0085	0.0085	100.0	Pass
24	0.0045	0.0045	100.0	Pass
25	0.0028	0.0028	100.0	Pass
26	0.0017	0.0017	100.0	Pass
27	0.0014	0.0014	100.0	Pass
28	0.0025	0.0025	100.0	Pass
29	0.0032	0.0032	100.0	Pass
30	0.0020	0.0020	100.0	Pass
31	0.0022	0.0022	100.0	Pass
Aug1	0.0095	0.0095	100.0	Pass
2	0.0188	0.0188	100.0	Pass
3	0.0147	0.0147	100.0	Pass
4	0.0090	0.0090	100.0	Pass
5	0.0202	0.0202	100.0	Pass
6	0.0287	0.0287	100.0	Pass
7	0.0212	0.0212	100.0	Pass
8	0.0116	0.0116	100.0	Pass
9	0.0058	0.0058	100.0	Pass
10	0.0040	0.0040	100.0	Pass
11	0.0062	0.0062	100.0	Pass
12	0.0095	0.0095	100.0	Pass
13	0.0143	0.0143	100.0	Pass
14	0.0224	0.0224	100.0	Pass
15	0.0277	0.0277	100.0	Pass
16	0.0167	0.0167	100.0	Pass
17	0.0097	0.0097	100.0	Pass
18	0.0157	0.0157	100.0	Pass
19	0.0304	0.0304	100.0	Pass
20	0.0196	0.0196	100.0	Pass
21	0.0345	0.0345	100.0	Pass
22	0.0538	0.0538	100.0	Pass
23	0.0831	0.0831	100.0	Pass
24	0.1271	0.1271	100.0	Pass

25	0.0853	0.0853	100.0	Pass
26	0.0654	0.0654	100.0	Pass
27	0.0896	0.0896	100.0	Pass
28	0.1131	0.1131	100.0	Pass
29	0.0834	0.0834	100.0	Pass
30	0.0678	0.0678	100.0	Pass
31	0.1305	0.1305	100.0	Pass
Sep1	0.1449	0.1449	100.0	Pass
2	0.1039	0.1039	100.0	Pass
3	0.0855	0.0855	100.0	Pass
4	0.0765	0.0765	100.0	Pass
5	0.0763	0.0763	100.0	Pass
6	0.0655	0.0655	100.0	Pass
7	0.0558	0.0558	100.0	Pass
8	0.0709	0.0709	100.0	Pass
9	0.0834	0.0834	100.0	Pass
10	0.0742	0.0742	100.0	Pass
11	0.0431	0.0431	100.0	Pass
12	0.0464	0.0464	100.0	Pass
13	0.0992	0.0992	100.0	Pass
14	0.1197	0.1197	100.0	Pass
15	0.1330	0.1330	100.0	Pass
16	0.2087	0.2087	100.0	Pass
17	0.1865	0.1865	100.0	Pass
18	0.1787	0.1787	100.0	Pass
19	0.2226	0.2226	100.0	Pass
20	0.2268	0.2268	100.0	Pass
21	0.2660	0.2660	100.0	Pass
22	0.2318	0.2318	100.0	Pass
23	0.1778	0.1778	100.0	Pass
24	0.1293	0.1293	100.0	Pass
25	0.0964	0.0964	100.0	Pass
26	0.0964	0.0964	100.0	Pass
27	0.1421	0.1421	100.0	Pass
28	0.1121	0.1121	100.0	Pass
29	0.1212	0.1212	100.0	Pass
30	0.1364	0.1364	100.0	Pass
Oct1	0.1156	0.1156	100.0	Pass
2	0.1154	0.1154	100.0	Pass
3	0.1384	0.1384	100.0	Pass
4	0.1969	0.1969	100.0	Pass
5	0.2228	0.2228	100.0	Pass
6	0.2346	0.2346	100.0	Pass
7	0.3205	0.3205	100.0	Pass
8	0.3357	0.3357	100.0	Pass
9	0.2951	0.2951	100.0	Pass
10	0.2508	0.2508	100.0	Pass
11	0.2730	0.2730	100.0	Pass
12	0.2822	0.2822	100.0	Pass
13	0.2808	0.2808	100.0	Pass
14	0.2957	0.2957	100.0	Pass
15	0.2654	0.2654	100.0	Pass
16	0.3319	0.3319	100.0	Pass
17	0.3280	0.3280	100.0	Pass
18	0.4618	0.4618	100.0	Pass
19	0.6195	0.6195	100.0	Pass
20	0.5742	0.5742	100.0	Pass

21	0.6740	0.6740	100.0	Pass
22	0.6069	0.6069	100.0	Pass
23	0.6644	0.6644	100.0	Pass
24	0.6602	0.6602	100.0	Pass
25	0.6313	0.6313	100.0	Pass
26	0.6714	0.6714	100.0	Pass
27	0.6806	0.6806	100.0	Pass
28	0.6225	0.6225	100.0	Pass
29	0.5760	0.5760	100.0	Pass
30	0.6128	0.6128	100.0	Pass
31	0.6591	0.6591	100.0	Pass
Nov1	0.7543	0.7543	100.0	Pass
2	0.7751	0.7751	100.0	Pass
3	0.8600	0.8600	100.0	Pass
4	0.7627	0.7627	100.0	Pass
5	0.8298	0.8298	100.0	Pass
6	0.8111	0.8111	100.0	Pass
7	0.7261	0.7261	100.0	Pass
8	0.7356	0.7356	100.0	Pass
9	0.8883	0.8883	100.0	Pass
10	0.8779	0.8779	100.0	Pass
11	0.9207	0.9207	100.0	Pass
12	0.8614	0.8614	100.0	Pass
13	0.8432	0.8432	100.0	Pass
14	0.7742	0.7742	100.0	Pass
15	0.8363	0.8363	100.0	Pass
16	0.8641	0.8641	100.0	Pass
17	0.8715	0.8715	100.0	Pass
18	1.0818	1.0818	100.0	Pass
19	1.1425	1.1425	100.0	Pass
20	0.9709	0.9709	100.0	Pass
21	1.0845	1.0845	100.0	Pass
22	1.1607	1.1607	100.0	Pass
23	1.2054	1.2054	100.0	Pass
24	1.2264	1.2264	100.0	Pass
25	1.0800	1.0800	100.0	Pass
26	0.8750	0.8750	100.0	Pass
27	0.7914	0.7914	100.0	Pass
28	0.7686	0.7686	100.0	Pass
29	1.0182	1.0182	100.0	Pass
30	1.0813	1.0813	100.0	Pass
Dec1	1.0896	1.0896	100.0	Pass
2	1.1507	1.1507	100.0	Pass
3	0.9260	0.9260	100.0	Pass
4	0.8263	0.8263	100.0	Pass
5	0.7916	0.7916	100.0	Pass
6	0.6407	0.6407	100.0	Pass
7	0.7097	0.7097	100.0	Pass
8	0.8781	0.8781	100.0	Pass
9	1.0063	1.0063	100.0	Pass
10	1.1188	1.1188	100.0	Pass
11	0.9485	0.9485	100.0	Pass
12	0.9155	0.9155	100.0	Pass
13	1.0827	1.0827	100.0	Pass
14	1.1060	1.1060	100.0	Pass
15	1.1022	1.1022	100.0	Pass
16	1.0319	1.0319	100.0	Pass

17	0.9759	0.9759	100.0	Pass
18	0.8918	0.8918	100.0	Pass
19	0.8614	0.8614	100.0	Pass
20	0.9447	0.9447	100.0	Pass
21	1.0403	1.0403	100.0	Pass
22	0.9992	0.9992	100.0	Pass
23	1.0495	1.0495	100.0	Pass
24	1.0875	1.0875	100.0	Pass
25	1.1540	1.1540	100.0	Pass
26	1.0801	1.0801	100.0	Pass
27	0.8329	0.8329	100.0	Pass
28	0.9048	0.9048	100.0	Pass
29	0.8477	0.8477	100.0	Pass
30	0.7405	0.7405	100.0	Pass
31	0.9743	0.9743	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #6
Total Pervious Area:0.11
Total Impervious Area:0.362

Mitigated Landuse Totals for POC #6
Total Pervious Area:0.11
Total Impervious Area:0.362

Flow Frequency Return Periods for Predeveloped. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.274129
5 year	0.329082
10 year	0.359041
25 year	0.391596
50 year	0.412826
100 year	0.431978

Flow Frequency Return Periods for Mitigated. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.274129
5 year	0.329082
10 year	0.359041
25 year	0.391596
50 year	0.412826
100 year	0.431978

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #6

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.297	0.297
1957	0.358	0.358

1958	0.271	0.271
1959	0.283	0.283
1960	0.295	0.295
1961	0.226	0.226
1962	0.388	0.388
1963	0.352	0.352
1964	0.300	0.300
1965	0.302	0.302
1966	0.300	0.300
1967	0.185	0.185
1968	0.284	0.284
1969	0.274	0.274
1970	0.249	0.249
1971	0.396	0.396
1972	0.337	0.337
1973	0.304	0.304
1974	0.300	0.300
1975	0.263	0.263
1976	0.323	0.323
1977	0.230	0.230
1978	0.400	0.400
1979	0.254	0.254
1980	0.232	0.232
1981	0.294	0.294
1982	0.339	0.339
1983	0.268	0.268
1984	0.254	0.254
1985	0.183	0.183
1986	0.304	0.304
1987	0.211	0.211
1988	0.324	0.324
1989	0.266	0.266
1990	0.356	0.356
1991	0.217	0.217
1992	0.174	0.174
1993	0.193	0.193
1994	0.257	0.257
1995	0.237	0.237
1996	0.292	0.292
1997	0.296	0.296
1998	0.183	0.183
1999	0.233	0.233
2000	0.213	0.213
2001	0.202	0.202
2002	0.304	0.304
2003	0.382	0.382
2004	0.351	0.351
2005	0.275	0.275
2006	0.281	0.281
2007	0.333	0.333
2008	0.167	0.167
2009	0.157	0.157

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank Predeveloped Mitigated

1	0.4003	0.4003
2	0.3961	0.3961
3	0.3883	0.3883
4	0.3815	0.3815
5	0.3583	0.3583
6	0.3559	0.3559
7	0.3524	0.3524
8	0.3512	0.3512
9	0.3393	0.3393
10	0.3372	0.3372
11	0.3334	0.3334
12	0.3237	0.3237
13	0.3227	0.3227
14	0.3040	0.3040
15	0.3038	0.3038
16	0.3035	0.3035
17	0.3016	0.3016
18	0.3004	0.3004
19	0.3002	0.3002
20	0.2996	0.2996
21	0.2966	0.2966
22	0.2958	0.2958
23	0.2953	0.2953
24	0.2941	0.2941
25	0.2918	0.2918
26	0.2845	0.2845
27	0.2832	0.2832
28	0.2812	0.2812
29	0.2746	0.2746
30	0.2740	0.2740
31	0.2711	0.2711
32	0.2680	0.2680
33	0.2665	0.2665
34	0.2627	0.2627
35	0.2573	0.2573
36	0.2541	0.2541
37	0.2536	0.2536
38	0.2486	0.2486
39	0.2373	0.2373
40	0.2334	0.2334
41	0.2316	0.2316
42	0.2302	0.2302
43	0.2257	0.2257
44	0.2172	0.2172
45	0.2132	0.2132
46	0.2110	0.2110
47	0.2018	0.2018
48	0.1931	0.1931
49	0.1851	0.1851
50	0.1833	0.1833
51	0.1831	0.1831
52	0.1743	0.1743
53	0.1675	0.1675
54	0.1575	0.1575

Stream Protection Duration

POC #6

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1371	1010	1010	100	Pass
0.1398	967	967	100	Pass
0.1426	890	890	100	Pass
0.1454	822	822	100	Pass
0.1482	765	765	100	Pass
0.1510	724	724	100	Pass
0.1538	659	659	100	Pass
0.1566	607	607	100	Pass
0.1593	565	565	100	Pass
0.1621	522	522	100	Pass
0.1649	500	500	100	Pass
0.1677	460	460	100	Pass
0.1705	424	424	100	Pass
0.1733	400	400	100	Pass
0.1761	370	370	100	Pass
0.1788	348	348	100	Pass
0.1816	332	332	100	Pass
0.1844	302	302	100	Pass
0.1872	284	284	100	Pass
0.1900	272	272	100	Pass
0.1928	251	251	100	Pass
0.1956	237	237	100	Pass
0.1983	224	224	100	Pass
0.2011	210	210	100	Pass
0.2039	200	200	100	Pass
0.2067	186	186	100	Pass
0.2095	179	179	100	Pass
0.2123	168	168	100	Pass
0.2151	161	161	100	Pass
0.2178	155	155	100	Pass
0.2206	144	144	100	Pass
0.2234	138	138	100	Pass
0.2262	131	131	100	Pass
0.2290	125	125	100	Pass
0.2318	115	115	100	Pass
0.2346	104	104	100	Pass
0.2373	99	99	100	Pass
0.2401	94	94	100	Pass
0.2429	92	92	100	Pass
0.2457	90	90	100	Pass
0.2485	86	86	100	Pass
0.2513	79	79	100	Pass
0.2541	77	77	100	Pass
0.2568	75	75	100	Pass
0.2596	72	72	100	Pass
0.2624	69	69	100	Pass
0.2652	66	66	100	Pass
0.2680	59	59	100	Pass
0.2708	53	53	100	Pass
0.2736	52	52	100	Pass
0.2763	48	48	100	Pass

0.2791	47	47	100	Pass
0.2819	46	46	100	Pass
0.2847	44	44	100	Pass
0.2875	42	42	100	Pass
0.2903	41	41	100	Pass
0.2931	39	39	100	Pass
0.2958	37	37	100	Pass
0.2986	33	33	100	Pass
0.3014	30	30	100	Pass
0.3042	25	25	100	Pass
0.3070	24	24	100	Pass
0.3098	24	24	100	Pass
0.3125	23	23	100	Pass
0.3153	22	22	100	Pass
0.3181	22	22	100	Pass
0.3209	20	20	100	Pass
0.3237	18	18	100	Pass
0.3265	16	16	100	Pass
0.3293	15	15	100	Pass
0.3320	15	15	100	Pass
0.3348	13	13	100	Pass
0.3376	13	13	100	Pass
0.3404	10	10	100	Pass
0.3432	10	10	100	Pass
0.3460	10	10	100	Pass
0.3488	10	10	100	Pass
0.3515	10	10	100	Pass
0.3543	8	8	100	Pass
0.3571	7	7	100	Pass
0.3599	6	6	100	Pass
0.3627	6	6	100	Pass
0.3655	5	5	100	Pass
0.3683	5	5	100	Pass
0.3710	5	5	100	Pass
0.3738	5	5	100	Pass
0.3766	4	4	100	Pass
0.3794	4	4	100	Pass
0.3822	3	3	100	Pass
0.3850	3	3	100	Pass
0.3878	3	3	100	Pass
0.3905	2	2	100	Pass
0.3933	2	2	100	Pass
0.3961	2	2	100	Pass
0.3989	1	1	100	Pass
0.4017	0	0	100	Pass
0.4045	0	0	0	Pass
0.4073	0	0	0	Pass
0.4100	0	0	0	Pass
0.4128	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #6

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 6

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	17.8604	17.8604	100.0	Pass
Feb	13.6824	13.6824	100.0	Pass
Mar	12.1056	12.1056	100.0	Pass
Apr	6.7096	6.7096	100.0	Pass
May	3.5411	3.5411	100.0	Pass
Jun	2.3321	2.3321	100.0	Pass
Jul	1.1449	1.1449	100.0	Pass
Aug	1.7083	1.7083	100.0	Pass
Sep	3.9426	3.9426	100.0	Pass
Oct	9.7900	9.7900	100.0	Pass
Nov	16.8798	16.8798	100.0	Pass
Dec	17.2319	17.2319	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.5724	0.5724	100.0	Pass
2	0.4523	0.4523	100.0	Pass
3	0.5729	0.5729	100.0	Pass
4	0.6706	0.6706	100.0	Pass
5	0.4920	0.4920	100.0	Pass
6	0.7325	0.7325	100.0	Pass
7	0.5721	0.5721	100.0	Pass
8	0.5736	0.5736	100.0	Pass
9	0.6102	0.6102	100.0	Pass
10	0.5944	0.5944	100.0	Pass
11	0.7253	0.7253	100.0	Pass
12	0.5732	0.5732	100.0	Pass
13	0.7180	0.7180	100.0	Pass
14	0.7175	0.7175	100.0	Pass
15	0.6559	0.6559	100.0	Pass
16	0.5408	0.5408	100.0	Pass
17	0.5174	0.5174	100.0	Pass
18	0.4568	0.4568	100.0	Pass
19	0.4546	0.4546	100.0	Pass
20	0.3014	0.3014	100.0	Pass
21	0.5659	0.5659	100.0	Pass
22	0.6887	0.6887	100.0	Pass
23	0.7726	0.7726	100.0	Pass
24	0.5327	0.5327	100.0	Pass
25	0.4516	0.4516	100.0	Pass
26	0.4077	0.4077	100.0	Pass
27	0.5102	0.5102	100.0	Pass
28	0.6482	0.6482	100.0	Pass
29	0.4995	0.4995	100.0	Pass
30	0.5872	0.5872	100.0	Pass
31	0.3574	0.3574	100.0	Pass
Feb1	0.4039	0.4039	100.0	Pass
2	0.3682	0.3682	100.0	Pass
3	0.3333	0.3333	100.0	Pass
4	0.3088	0.3088	100.0	Pass
5	0.5629	0.5629	100.0	Pass

6	0.2908	0.2908	100.0	Pass
7	0.4162	0.4162	100.0	Pass
8	0.3182	0.3182	100.0	Pass
9	0.3803	0.3803	100.0	Pass
10	0.5049	0.5049	100.0	Pass
11	0.6665	0.6665	100.0	Pass
12	0.5257	0.5257	100.0	Pass
13	0.5623	0.5623	100.0	Pass
14	0.7830	0.7830	100.0	Pass
15	0.5771	0.5771	100.0	Pass
16	0.7500	0.7500	100.0	Pass
17	0.6630	0.6630	100.0	Pass
18	0.5267	0.5267	100.0	Pass
19	0.4576	0.4576	100.0	Pass
20	0.4401	0.4401	100.0	Pass
21	0.3606	0.3606	100.0	Pass
22	0.5237	0.5237	100.0	Pass
23	0.4992	0.4992	100.0	Pass
24	0.5496	0.5496	100.0	Pass
25	0.4927	0.4927	100.0	Pass
26	0.4859	0.4859	100.0	Pass
27	0.4261	0.4261	100.0	Pass
28	0.5752	0.5752	100.0	Pass
29	0.4094	0.4094	100.0	Pass
Mar1	0.4026	0.4026	100.0	Pass
2	0.3300	0.3300	100.0	Pass
3	0.4630	0.4630	100.0	Pass
4	0.4853	0.4853	100.0	Pass
5	0.3829	0.3829	100.0	Pass
6	0.4831	0.4831	100.0	Pass
7	0.4730	0.4730	100.0	Pass
8	0.4602	0.4602	100.0	Pass
9	0.4615	0.4615	100.0	Pass
10	0.4033	0.4033	100.0	Pass
11	0.4368	0.4368	100.0	Pass
12	0.3867	0.3867	100.0	Pass
13	0.4680	0.4680	100.0	Pass
14	0.3725	0.3725	100.0	Pass
15	0.3031	0.3031	100.0	Pass
16	0.2915	0.2915	100.0	Pass
17	0.3948	0.3948	100.0	Pass
18	0.2429	0.2429	100.0	Pass
19	0.3616	0.3616	100.0	Pass
20	0.2921	0.2921	100.0	Pass
21	0.4896	0.4896	100.0	Pass
22	0.5494	0.5494	100.0	Pass
23	0.4571	0.4571	100.0	Pass
24	0.2953	0.2953	100.0	Pass
25	0.4496	0.4496	100.0	Pass
26	0.3295	0.3295	100.0	Pass
27	0.3144	0.3144	100.0	Pass
28	0.3525	0.3525	100.0	Pass
29	0.3227	0.3227	100.0	Pass
30	0.2423	0.2423	100.0	Pass
31	0.1951	0.1951	100.0	Pass
Apr1	0.2082	0.2082	100.0	Pass
2	0.2338	0.2338	100.0	Pass

3	0.3196	0.3196	100.0	Pass
4	0.2908	0.2908	100.0	Pass
5	0.3138	0.3138	100.0	Pass
6	0.1695	0.1695	100.0	Pass
7	0.2787	0.2787	100.0	Pass
8	0.2816	0.2816	100.0	Pass
9	0.2493	0.2493	100.0	Pass
10	0.2475	0.2475	100.0	Pass
11	0.3380	0.3380	100.0	Pass
12	0.2907	0.2907	100.0	Pass
13	0.3031	0.3031	100.0	Pass
14	0.2586	0.2586	100.0	Pass
15	0.2772	0.2772	100.0	Pass
16	0.1543	0.1543	100.0	Pass
17	0.2114	0.2114	100.0	Pass
18	0.2429	0.2429	100.0	Pass
19	0.1320	0.1320	100.0	Pass
20	0.1274	0.1274	100.0	Pass
21	0.2145	0.2145	100.0	Pass
22	0.1788	0.1788	100.0	Pass
23	0.1565	0.1565	100.0	Pass
24	0.1262	0.1262	100.0	Pass
25	0.1520	0.1520	100.0	Pass
26	0.2550	0.2550	100.0	Pass
27	0.1975	0.1975	100.0	Pass
28	0.2064	0.2064	100.0	Pass
29	0.1001	0.1001	100.0	Pass
30	0.1329	0.1329	100.0	Pass
May1	0.2062	0.2062	100.0	Pass
2	0.1497	0.1497	100.0	Pass
3	0.1600	0.1600	100.0	Pass
4	0.1262	0.1262	100.0	Pass
5	0.1215	0.1215	100.0	Pass
6	0.1025	0.1025	100.0	Pass
7	0.1362	0.1362	100.0	Pass
8	0.0832	0.0832	100.0	Pass
9	0.1168	0.1168	100.0	Pass
10	0.0934	0.0934	100.0	Pass
11	0.0878	0.0878	100.0	Pass
12	0.1257	0.1257	100.0	Pass
13	0.1351	0.1351	100.0	Pass
14	0.1321	0.1321	100.0	Pass
15	0.0881	0.0881	100.0	Pass
16	0.1147	0.1147	100.0	Pass
17	0.0937	0.0937	100.0	Pass
18	0.1525	0.1525	100.0	Pass
19	0.0798	0.0798	100.0	Pass
20	0.0779	0.0779	100.0	Pass
21	0.0796	0.0796	100.0	Pass
22	0.0980	0.0980	100.0	Pass
23	0.0859	0.0859	100.0	Pass
24	0.0902	0.0902	100.0	Pass
25	0.0754	0.0754	100.0	Pass
26	0.1316	0.1316	100.0	Pass
27	0.1029	0.1029	100.0	Pass
28	0.1115	0.1115	100.0	Pass
29	0.1522	0.1522	100.0	Pass

30	0.0981	0.0981	100.0	Pass
31	0.1071	0.1071	100.0	Pass
Jun1	0.0803	0.0803	100.0	Pass
2	0.1331	0.1331	100.0	Pass
3	0.1259	0.1259	100.0	Pass
4	0.0900	0.0900	100.0	Pass
5	0.1514	0.1514	100.0	Pass
6	0.0566	0.0566	100.0	Pass
7	0.0875	0.0875	100.0	Pass
8	0.1236	0.1236	100.0	Pass
9	0.0926	0.0926	100.0	Pass
10	0.0880	0.0880	100.0	Pass
11	0.0637	0.0637	100.0	Pass
12	0.0778	0.0778	100.0	Pass
13	0.1244	0.1244	100.0	Pass
14	0.0506	0.0506	100.0	Pass
15	0.1019	0.1019	100.0	Pass
16	0.0444	0.0444	100.0	Pass
17	0.0632	0.0632	100.0	Pass
18	0.0426	0.0426	100.0	Pass
19	0.0509	0.0509	100.0	Pass
20	0.0556	0.0556	100.0	Pass
21	0.0557	0.0557	100.0	Pass
22	0.0302	0.0302	100.0	Pass
23	0.1569	0.1569	100.0	Pass
24	0.0414	0.0414	100.0	Pass
25	0.0692	0.0692	100.0	Pass
26	0.0412	0.0412	100.0	Pass
27	0.0372	0.0372	100.0	Pass
28	0.0384	0.0384	100.0	Pass
29	0.0508	0.0508	100.0	Pass
30	0.1103	0.1103	100.0	Pass
Jul1	0.0272	0.0272	100.0	Pass
2	0.0233	0.0233	100.0	Pass
3	0.0256	0.0256	100.0	Pass
4	0.0626	0.0626	100.0	Pass
5	0.0467	0.0467	100.0	Pass
6	0.0354	0.0354	100.0	Pass
7	0.0688	0.0688	100.0	Pass
8	0.0386	0.0386	100.0	Pass
9	0.0814	0.0814	100.0	Pass
10	0.0528	0.0528	100.0	Pass
11	0.1085	0.1085	100.0	Pass
12	0.0547	0.0547	100.0	Pass
13	0.0404	0.0404	100.0	Pass
14	0.0627	0.0627	100.0	Pass
15	0.0249	0.0249	100.0	Pass
16	0.0157	0.0157	100.0	Pass
17	0.0540	0.0540	100.0	Pass
18	0.0180	0.0180	100.0	Pass
19	0.0222	0.0222	100.0	Pass
20	0.0392	0.0392	100.0	Pass
21	0.0311	0.0311	100.0	Pass
22	0.0027	0.0027	100.0	Pass
23	0.0089	0.0089	100.0	Pass
24	0.0102	0.0102	100.0	Pass
25	0.0228	0.0228	100.0	Pass

26	0.0094	0.0094	100.0	Pass
27	0.0143	0.0143	100.0	Pass
28	0.0118	0.0118	100.0	Pass
29	0.0075	0.0075	100.0	Pass
30	0.0131	0.0131	100.0	Pass
31	0.0152	0.0152	100.0	Pass
Aug1	0.0627	0.0627	100.0	Pass
2	0.0216	0.0216	100.0	Pass
3	0.0081	0.0081	100.0	Pass
4	0.0082	0.0082	100.0	Pass
5	0.0712	0.0712	100.0	Pass
6	0.0475	0.0475	100.0	Pass
7	0.0170	0.0170	100.0	Pass
8	0.0174	0.0174	100.0	Pass
9	0.0013	0.0013	100.0	Pass
10	0.0091	0.0091	100.0	Pass
11	0.0456	0.0456	100.0	Pass
12	0.0390	0.0390	100.0	Pass
13	0.0491	0.0491	100.0	Pass
14	0.0301	0.0301	100.0	Pass
15	0.0270	0.0270	100.0	Pass
16	0.0230	0.0230	100.0	Pass
17	0.0451	0.0451	100.0	Pass
18	0.0872	0.0872	100.0	Pass
19	0.0241	0.0241	100.0	Pass
20	0.0676	0.0676	100.0	Pass
21	0.0623	0.0623	100.0	Pass
22	0.1214	0.1214	100.0	Pass
23	0.1140	0.1140	100.0	Pass
24	0.0990	0.0990	100.0	Pass
25	0.0400	0.0400	100.0	Pass
26	0.1173	0.1173	100.0	Pass
27	0.1197	0.1197	100.0	Pass
28	0.1201	0.1201	100.0	Pass
29	0.0755	0.0755	100.0	Pass
30	0.1218	0.1218	100.0	Pass
31	0.1936	0.1936	100.0	Pass
Sep1	0.0754	0.0754	100.0	Pass
2	0.0768	0.0768	100.0	Pass
3	0.0829	0.0829	100.0	Pass
4	0.1040	0.1040	100.0	Pass
5	0.0890	0.0890	100.0	Pass
6	0.0610	0.0610	100.0	Pass
7	0.1189	0.1189	100.0	Pass
8	0.0757	0.0757	100.0	Pass
9	0.1931	0.1931	100.0	Pass
10	0.0457	0.0457	100.0	Pass
11	0.0384	0.0384	100.0	Pass
12	0.1020	0.1020	100.0	Pass
13	0.1916	0.1916	100.0	Pass
14	0.1224	0.1224	100.0	Pass
15	0.1851	0.1851	100.0	Pass
16	0.1971	0.1971	100.0	Pass
17	0.2143	0.2143	100.0	Pass
18	0.1930	0.1930	100.0	Pass
19	0.2067	0.2067	100.0	Pass
20	0.1515	0.1515	100.0	Pass

21	0.2094	0.2094	100.0	Pass
22	0.1680	0.1680	100.0	Pass
23	0.1324	0.1324	100.0	Pass
24	0.0950	0.0950	100.0	Pass
25	0.1005	0.1005	100.0	Pass
26	0.1015	0.1015	100.0	Pass
27	0.1386	0.1386	100.0	Pass
28	0.1203	0.1203	100.0	Pass
29	0.1592	0.1592	100.0	Pass
30	0.1155	0.1155	100.0	Pass
Oct1	0.0811	0.0811	100.0	Pass
2	0.2045	0.2045	100.0	Pass
3	0.1828	0.1828	100.0	Pass
4	0.2238	0.2238	100.0	Pass
5	0.2379	0.2379	100.0	Pass
6	0.2629	0.2629	100.0	Pass
7	0.3367	0.3367	100.0	Pass
8	0.2746	0.2746	100.0	Pass
9	0.2134	0.2134	100.0	Pass
10	0.1745	0.1745	100.0	Pass
11	0.3294	0.3294	100.0	Pass
12	0.2221	0.2221	100.0	Pass
13	0.3090	0.3090	100.0	Pass
14	0.1775	0.1775	100.0	Pass
15	0.2090	0.2090	100.0	Pass
16	0.2818	0.2818	100.0	Pass
17	0.2576	0.2576	100.0	Pass
18	0.4125	0.4125	100.0	Pass
19	0.5087	0.5087	100.0	Pass
20	0.4394	0.4394	100.0	Pass
21	0.5306	0.5306	100.0	Pass
22	0.3146	0.3146	100.0	Pass
23	0.5165	0.5165	100.0	Pass
24	0.4538	0.4538	100.0	Pass
25	0.4063	0.4063	100.0	Pass
26	0.4915	0.4915	100.0	Pass
27	0.4186	0.4186	100.0	Pass
28	0.3895	0.3895	100.0	Pass
29	0.3297	0.3297	100.0	Pass
30	0.4856	0.4856	100.0	Pass
31	0.4111	0.4111	100.0	Pass
Nov1	0.5179	0.5179	100.0	Pass
2	0.6249	0.6249	100.0	Pass
3	0.4884	0.4884	100.0	Pass
4	0.4942	0.4942	100.0	Pass
5	0.5463	0.5463	100.0	Pass
6	0.4576	0.4576	100.0	Pass
7	0.4147	0.4147	100.0	Pass
8	0.5335	0.5335	100.0	Pass
9	0.6305	0.6305	100.0	Pass
10	0.5411	0.5411	100.0	Pass
11	0.6045	0.6045	100.0	Pass
12	0.5591	0.5591	100.0	Pass
13	0.4205	0.4205	100.0	Pass
14	0.4906	0.4906	100.0	Pass
15	0.5510	0.5510	100.0	Pass
16	0.5754	0.5754	100.0	Pass

17	0.5266	0.5266	100.0	Pass
18	0.7731	0.7731	100.0	Pass
19	0.6926	0.6926	100.0	Pass
20	0.4602	0.4602	100.0	Pass
21	0.7203	0.7203	100.0	Pass
22	0.8502	0.8502	100.0	Pass
23	0.6502	0.6502	100.0	Pass
24	0.7429	0.7429	100.0	Pass
25	0.4922	0.4922	100.0	Pass
26	0.3999	0.3999	100.0	Pass
27	0.4841	0.4841	100.0	Pass
28	0.4620	0.4620	100.0	Pass
29	0.7651	0.7651	100.0	Pass
30	0.6127	0.6127	100.0	Pass
Dec1	0.6758	0.6758	100.0	Pass
2	0.6552	0.6552	100.0	Pass
3	0.4214	0.4214	100.0	Pass
4	0.4661	0.4661	100.0	Pass
5	0.4008	0.4008	100.0	Pass
6	0.3473	0.3473	100.0	Pass
7	0.4993	0.4993	100.0	Pass
8	0.6272	0.6272	100.0	Pass
9	0.6231	0.6231	100.0	Pass
10	0.6726	0.6726	100.0	Pass
11	0.4916	0.4916	100.0	Pass
12	0.5318	0.5318	100.0	Pass
13	0.7895	0.7895	100.0	Pass
14	0.5499	0.5499	100.0	Pass
15	0.7171	0.7171	100.0	Pass
16	0.4849	0.4849	100.0	Pass
17	0.5771	0.5771	100.0	Pass
18	0.4750	0.4750	100.0	Pass
19	0.5567	0.5567	100.0	Pass
20	0.5461	0.5461	100.0	Pass
21	0.6011	0.6011	100.0	Pass
22	0.5914	0.5914	100.0	Pass
23	0.6423	0.6423	100.0	Pass
24	0.7111	0.7111	100.0	Pass
25	0.6182	0.6182	100.0	Pass
26	0.5638	0.5638	100.0	Pass
27	0.3792	0.3792	100.0	Pass
28	0.5972	0.5972	100.0	Pass
29	0.3955	0.3955	100.0	Pass
30	0.4119	0.4119	100.0	Pass
31	0.6936	0.6936	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #7
Total Pervious Area:0.019
Total Impervious Area:0.357

Mitigated Landuse Totals for POC #7
Total Pervious Area:0.019
Total Impervious Area:0.357

Flow Frequency Return Periods for Predeveloped. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.2404
5 year	0.284774
10 year	0.309346
25 year	0.336452
50 year	0.354397
100 year	0.370791

Flow Frequency Return Periods for Mitigated. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.2404
5 year	0.284774
10 year	0.309346
25 year	0.336452
50 year	0.354397
100 year	0.370791

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #7

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.251	0.251
1957	0.312	0.312
1958	0.242	0.242
1959	0.242	0.242
1960	0.250	0.250
1961	0.208	0.208
1962	0.328	0.328
1963	0.301	0.301
1964	0.264	0.264
1965	0.261	0.261
1966	0.254	0.254
1967	0.166	0.166
1968	0.246	0.246
1969	0.232	0.232
1970	0.225	0.225
1971	0.337	0.337
1972	0.283	0.283
1973	0.266	0.266
1974	0.254	0.254
1975	0.228	0.228
1976	0.278	0.278
1977	0.203	0.203
1978	0.349	0.349
1979	0.220	0.220
1980	0.204	0.204
1981	0.259	0.259
1982	0.299	0.299
1983	0.235	0.235
1984	0.220	0.220

1985	0.171	0.171
1986	0.263	0.263
1987	0.185	0.185
1988	0.280	0.280
1989	0.234	0.234
1990	0.303	0.303
1991	0.207	0.207
1992	0.160	0.160
1993	0.177	0.177
1994	0.226	0.226
1995	0.225	0.225
1996	0.274	0.274
1997	0.263	0.263
1998	0.167	0.167
1999	0.207	0.207
2000	0.192	0.192
2001	0.186	0.186
2002	0.296	0.296
2003	0.322	0.322
2004	0.301	0.301
2005	0.239	0.239
2006	0.243	0.243
2007	0.284	0.284
2008	0.153	0.153
2009	0.146	0.146

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	0.3491	0.3491
2	0.3371	0.3371
3	0.3282	0.3282
4	0.3217	0.3217
5	0.3121	0.3121
6	0.3026	0.3026
7	0.3011	0.3011
8	0.3006	0.3006
9	0.2994	0.2994
10	0.2958	0.2958
11	0.2844	0.2844
12	0.2833	0.2833
13	0.2801	0.2801
14	0.2777	0.2777
15	0.2737	0.2737
16	0.2661	0.2661
17	0.2644	0.2644
18	0.2632	0.2632
19	0.2625	0.2625
20	0.2607	0.2607
21	0.2588	0.2588
22	0.2545	0.2545
23	0.2544	0.2544
24	0.2507	0.2507
25	0.2504	0.2504
26	0.2456	0.2456
27	0.2427	0.2427

28	0.2420	0.2420
29	0.2417	0.2417
30	0.2393	0.2393
31	0.2355	0.2355
32	0.2345	0.2345
33	0.2321	0.2321
34	0.2283	0.2283
35	0.2260	0.2260
36	0.2254	0.2254
37	0.2250	0.2250
38	0.2197	0.2197
39	0.2197	0.2197
40	0.2080	0.2080
41	0.2067	0.2067
42	0.2065	0.2065
43	0.2042	0.2042
44	0.2033	0.2033
45	0.1918	0.1918
46	0.1856	0.1856
47	0.1848	0.1848
48	0.1770	0.1770
49	0.1710	0.1710
50	0.1672	0.1672
51	0.1664	0.1664
52	0.1600	0.1600
53	0.1527	0.1527
54	0.1455	0.1455

Stream Protection Duration

POC #7

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1202	1201	1201	100	Pass
0.1226	1129	1129	100	Pass
0.1249	1069	1069	100	Pass
0.1273	975	975	100	Pass
0.1297	918	918	100	Pass
0.1320	843	843	100	Pass
0.1344	789	789	100	Pass
0.1368	733	733	100	Pass
0.1391	667	667	100	Pass
0.1415	630	630	100	Pass
0.1439	582	582	100	Pass
0.1462	529	529	100	Pass
0.1486	496	496	100	Pass
0.1510	469	469	100	Pass
0.1533	421	421	100	Pass
0.1557	400	400	100	Pass
0.1581	361	361	100	Pass
0.1604	347	347	100	Pass
0.1628	326	326	100	Pass
0.1651	301	301	100	Pass
0.1675	287	287	100	Pass

0.1699	269	269	100	Pass
0.1722	252	252	100	Pass
0.1746	244	244	100	Pass
0.1770	231	231	100	Pass
0.1793	209	209	100	Pass
0.1817	203	203	100	Pass
0.1841	190	190	100	Pass
0.1864	179	179	100	Pass
0.1888	175	175	100	Pass
0.1912	161	161	100	Pass
0.1935	156	156	100	Pass
0.1959	150	150	100	Pass
0.1983	140	140	100	Pass
0.2006	131	131	100	Pass
0.2030	122	122	100	Pass
0.2054	114	114	100	Pass
0.2077	106	106	100	Pass
0.2101	99	99	100	Pass
0.2125	98	98	100	Pass
0.2148	94	94	100	Pass
0.2172	86	86	100	Pass
0.2196	84	84	100	Pass
0.2219	78	78	100	Pass
0.2243	76	76	100	Pass
0.2267	69	69	100	Pass
0.2290	65	65	100	Pass
0.2314	63	63	100	Pass
0.2338	59	59	100	Pass
0.2361	55	55	100	Pass
0.2385	52	52	100	Pass
0.2408	51	51	100	Pass
0.2432	44	44	100	Pass
0.2456	44	44	100	Pass
0.2479	41	41	100	Pass
0.2503	40	40	100	Pass
0.2527	37	37	100	Pass
0.2550	35	35	100	Pass
0.2574	33	33	100	Pass
0.2598	32	32	100	Pass
0.2621	30	30	100	Pass
0.2645	27	27	100	Pass
0.2669	26	26	100	Pass
0.2692	25	25	100	Pass
0.2716	24	24	100	Pass
0.2740	24	24	100	Pass
0.2763	23	23	100	Pass
0.2787	20	20	100	Pass
0.2811	18	18	100	Pass
0.2834	17	17	100	Pass
0.2858	14	14	100	Pass
0.2882	13	13	100	Pass
0.2905	13	13	100	Pass
0.2929	13	13	100	Pass
0.2953	12	12	100	Pass
0.2976	11	11	100	Pass
0.3000	11	11	100	Pass
0.3024	8	8	100	Pass

0.3047	7	7	100	Pass
0.3071	6	6	100	Pass
0.3095	6	6	100	Pass
0.3118	6	6	100	Pass
0.3142	5	5	100	Pass
0.3165	5	5	100	Pass
0.3189	4	4	100	Pass
0.3213	4	4	100	Pass
0.3236	3	3	100	Pass
0.3260	3	3	100	Pass
0.3284	3	3	100	Pass
0.3307	2	2	100	Pass
0.3331	2	2	100	Pass
0.3355	2	2	100	Pass
0.3378	2	2	100	Pass
0.3402	1	1	100	Pass
0.3426	1	1	100	Pass
0.3449	1	1	100	Pass
0.3473	1	1	100	Pass
0.3497	1	1	100	Pass
0.3520	0	0	100	Pass
0.3544	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #7

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 7

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	14.8296	14.8296	100.0	Pass
Feb	11.3179	11.3179	100.0	Pass
Mar	10.0411	10.0411	100.0	Pass
Apr	5.6446	5.6446	100.0	Pass
May	3.1062	3.1062	100.0	Pass
Jun	2.0863	2.0863	100.0	Pass
Jul	1.0466	1.0466	100.0	Pass
Aug	1.5837	1.5837	100.0	Pass
Sep	3.5453	3.5453	100.0	Pass
Oct	8.5308	8.5308	100.0	Pass
Nov	14.2080	14.2080	100.0	Pass
Dec	14.3069	14.3069	100.0	Pass

Day Predevel Mitigated Percent Pass/Fail

Jan1	0.4773	0.4773	100.0	Pass
2	0.3677	0.3677	100.0	Pass
3	0.4812	0.4812	100.0	Pass
4	0.5728	0.5728	100.0	Pass
5	0.3999	0.3999	100.0	Pass
6	0.6278	0.6278	100.0	Pass

7	0.4675	0.4675	100.0	Pass
8	0.4742	0.4742	100.0	Pass
9	0.5134	0.5134	100.0	Pass
10	0.4915	0.4915	100.0	Pass
11	0.6100	0.6100	100.0	Pass
12	0.4660	0.4660	100.0	Pass
13	0.6029	0.6029	100.0	Pass
14	0.5967	0.5967	100.0	Pass
15	0.5396	0.5396	100.0	Pass
16	0.4316	0.4316	100.0	Pass
17	0.4171	0.4171	100.0	Pass
18	0.3676	0.3676	100.0	Pass
19	0.3733	0.3733	100.0	Pass
20	0.2347	0.2347	100.0	Pass
21	0.4959	0.4959	100.0	Pass
22	0.5874	0.5874	100.0	Pass
23	0.6510	0.6510	100.0	Pass
24	0.4256	0.4256	100.0	Pass
25	0.3598	0.3598	100.0	Pass
26	0.3253	0.3253	100.0	Pass
27	0.4283	0.4283	100.0	Pass
28	0.5498	0.5498	100.0	Pass
29	0.4066	0.4066	100.0	Pass
30	0.4929	0.4929	100.0	Pass
31	0.2792	0.2792	100.0	Pass
Feb1	0.3303	0.3303	100.0	Pass
2	0.3042	0.3042	100.0	Pass
3	0.2724	0.2724	100.0	Pass
4	0.2522	0.2522	100.0	Pass
5	0.4877	0.4877	100.0	Pass
6	0.2252	0.2252	100.0	Pass
7	0.3515	0.3515	100.0	Pass
8	0.2594	0.2594	100.0	Pass
9	0.3233	0.3233	100.0	Pass
10	0.4351	0.4351	100.0	Pass
11	0.5689	0.5689	100.0	Pass
12	0.4293	0.4293	100.0	Pass
13	0.4704	0.4704	100.0	Pass
14	0.6733	0.6733	100.0	Pass
15	0.4659	0.4659	100.0	Pass
16	0.6330	0.6330	100.0	Pass
17	0.5461	0.5461	100.0	Pass
18	0.4167	0.4167	100.0	Pass
19	0.3650	0.3650	100.0	Pass
20	0.3552	0.3552	100.0	Pass
21	0.2907	0.2907	100.0	Pass
22	0.4419	0.4419	100.0	Pass
23	0.4155	0.4155	100.0	Pass
24	0.4590	0.4590	100.0	Pass
25	0.4041	0.4041	100.0	Pass
26	0.3963	0.3963	100.0	Pass
27	0.3446	0.3446	100.0	Pass
28	0.4742	0.4742	100.0	Pass
29	0.3351	0.3351	100.0	Pass
Mar1	0.3324	0.3324	100.0	Pass
2	0.2669	0.2669	100.0	Pass
3	0.3928	0.3928	100.0	Pass

4	0.4081	0.4081	100.0	Pass
5	0.3146	0.3146	100.0	Pass
6	0.4024	0.4024	100.0	Pass
7	0.3986	0.3986	100.0	Pass
8	0.3823	0.3823	100.0	Pass
9	0.3833	0.3833	100.0	Pass
10	0.3291	0.3291	100.0	Pass
11	0.3619	0.3619	100.0	Pass
12	0.3186	0.3186	100.0	Pass
13	0.3924	0.3924	100.0	Pass
14	0.3034	0.3034	100.0	Pass
15	0.2445	0.2445	100.0	Pass
16	0.2398	0.2398	100.0	Pass
17	0.3316	0.3316	100.0	Pass
18	0.1933	0.1933	100.0	Pass
19	0.3079	0.3079	100.0	Pass
20	0.2423	0.2423	100.0	Pass
21	0.4244	0.4244	100.0	Pass
22	0.4720	0.4720	100.0	Pass
23	0.3757	0.3757	100.0	Pass
24	0.2282	0.2282	100.0	Pass
25	0.3808	0.3808	100.0	Pass
26	0.2653	0.2653	100.0	Pass
27	0.2603	0.2603	100.0	Pass
28	0.2920	0.2920	100.0	Pass
29	0.2677	0.2677	100.0	Pass
30	0.1942	0.1942	100.0	Pass
31	0.1564	0.1564	100.0	Pass
Apr1	0.1726	0.1726	100.0	Pass
2	0.1976	0.1976	100.0	Pass
3	0.2794	0.2794	100.0	Pass
4	0.2460	0.2460	100.0	Pass
5	0.2613	0.2613	100.0	Pass
6	0.1317	0.1317	100.0	Pass
7	0.2400	0.2400	100.0	Pass
8	0.2373	0.2373	100.0	Pass
9	0.2109	0.2109	100.0	Pass
10	0.2055	0.2055	100.0	Pass
11	0.2955	0.2955	100.0	Pass
12	0.2440	0.2440	100.0	Pass
13	0.2578	0.2578	100.0	Pass
14	0.2143	0.2143	100.0	Pass
15	0.2310	0.2310	100.0	Pass
16	0.1190	0.1190	100.0	Pass
17	0.1793	0.1793	100.0	Pass
18	0.2086	0.2086	100.0	Pass
19	0.1028	0.1028	100.0	Pass
20	0.1051	0.1051	100.0	Pass
21	0.1886	0.1886	100.0	Pass
22	0.1536	0.1536	100.0	Pass
23	0.1313	0.1313	100.0	Pass
24	0.1048	0.1048	100.0	Pass
25	0.1318	0.1318	100.0	Pass
26	0.2222	0.2222	100.0	Pass
27	0.1663	0.1663	100.0	Pass
28	0.1742	0.1742	100.0	Pass
29	0.0770	0.0770	100.0	Pass

30	0.1142	0.1142	100.0	Pass
May1	0.1842	0.1842	100.0	Pass
2	0.1264	0.1264	100.0	Pass
3	0.1390	0.1390	100.0	Pass
4	0.1060	0.1060	100.0	Pass
5	0.1038	0.1038	100.0	Pass
6	0.0878	0.0878	100.0	Pass
7	0.1200	0.1200	100.0	Pass
8	0.0693	0.0693	100.0	Pass
9	0.1034	0.1034	100.0	Pass
10	0.0817	0.0817	100.0	Pass
11	0.0773	0.0773	100.0	Pass
12	0.1120	0.1120	100.0	Pass
13	0.1204	0.1204	100.0	Pass
14	0.1177	0.1177	100.0	Pass
15	0.0733	0.0733	100.0	Pass
16	0.1021	0.1021	100.0	Pass
17	0.0812	0.0812	100.0	Pass
18	0.1393	0.1393	100.0	Pass
19	0.0677	0.0677	100.0	Pass
20	0.0689	0.0689	100.0	Pass
21	0.0704	0.0704	100.0	Pass
22	0.0891	0.0891	100.0	Pass
23	0.0761	0.0761	100.0	Pass
24	0.0798	0.0798	100.0	Pass
25	0.0656	0.0656	100.0	Pass
26	0.1194	0.1194	100.0	Pass
27	0.0906	0.0906	100.0	Pass
28	0.0995	0.0995	100.0	Pass
29	0.1362	0.1362	100.0	Pass
30	0.0844	0.0844	100.0	Pass
31	0.0928	0.0928	100.0	Pass
Jun1	0.0671	0.0671	100.0	Pass
2	0.1216	0.1216	100.0	Pass
3	0.1141	0.1141	100.0	Pass
4	0.0789	0.0789	100.0	Pass
5	0.1380	0.1380	100.0	Pass
6	0.0457	0.0457	100.0	Pass
7	0.0765	0.0765	100.0	Pass
8	0.1109	0.1109	100.0	Pass
9	0.0816	0.0816	100.0	Pass
10	0.0791	0.0791	100.0	Pass
11	0.0559	0.0559	100.0	Pass
12	0.0711	0.0711	100.0	Pass
13	0.1143	0.1143	100.0	Pass
14	0.0424	0.0424	100.0	Pass
15	0.0924	0.0924	100.0	Pass
16	0.0366	0.0366	100.0	Pass
17	0.0562	0.0562	100.0	Pass
18	0.0356	0.0356	100.0	Pass
19	0.0462	0.0462	100.0	Pass
20	0.0516	0.0516	100.0	Pass
21	0.0506	0.0506	100.0	Pass
22	0.0261	0.0261	100.0	Pass
23	0.1492	0.1492	100.0	Pass
24	0.0331	0.0331	100.0	Pass
25	0.0630	0.0630	100.0	Pass

26	0.0371	0.0371	100.0	Pass
27	0.0345	0.0345	100.0	Pass
28	0.0360	0.0360	100.0	Pass
29	0.0482	0.0482	100.0	Pass
30	0.1038	0.1038	100.0	Pass
Jul1	0.0227	0.0227	100.0	Pass
2	0.0208	0.0208	100.0	Pass
3	0.0238	0.0238	100.0	Pass
4	0.0609	0.0609	100.0	Pass
5	0.0448	0.0448	100.0	Pass
6	0.0337	0.0337	100.0	Pass
7	0.0648	0.0648	100.0	Pass
8	0.0341	0.0341	100.0	Pass
9	0.0766	0.0766	100.0	Pass
10	0.0481	0.0481	100.0	Pass
11	0.0984	0.0984	100.0	Pass
12	0.0433	0.0433	100.0	Pass
13	0.0333	0.0333	100.0	Pass
14	0.0571	0.0571	100.0	Pass
15	0.0213	0.0213	100.0	Pass
16	0.0136	0.0136	100.0	Pass
17	0.0504	0.0504	100.0	Pass
18	0.0146	0.0146	100.0	Pass
19	0.0199	0.0199	100.0	Pass
20	0.0371	0.0371	100.0	Pass
21	0.0282	0.0282	100.0	Pass
22	0.0011	0.0011	100.0	Pass
23	0.0080	0.0080	100.0	Pass
24	0.0097	0.0097	100.0	Pass
25	0.0223	0.0223	100.0	Pass
26	0.0091	0.0091	100.0	Pass
27	0.0140	0.0140	100.0	Pass
28	0.0114	0.0114	100.0	Pass
29	0.0071	0.0071	100.0	Pass
30	0.0128	0.0128	100.0	Pass
31	0.0148	0.0148	100.0	Pass
Aug1	0.0610	0.0610	100.0	Pass
2	0.0196	0.0196	100.0	Pass
3	0.0067	0.0067	100.0	Pass
4	0.0073	0.0073	100.0	Pass
5	0.0684	0.0684	100.0	Pass
6	0.0443	0.0443	100.0	Pass
7	0.0149	0.0149	100.0	Pass
8	0.0161	0.0161	100.0	Pass
9	0.0007	0.0007	100.0	Pass
10	0.0086	0.0086	100.0	Pass
11	0.0444	0.0444	100.0	Pass
12	0.0376	0.0376	100.0	Pass
13	0.0471	0.0471	100.0	Pass
14	0.0276	0.0276	100.0	Pass
15	0.0241	0.0241	100.0	Pass
16	0.0212	0.0212	100.0	Pass
17	0.0436	0.0436	100.0	Pass
18	0.0846	0.0846	100.0	Pass
19	0.0210	0.0210	100.0	Pass
20	0.0649	0.0649	100.0	Pass
21	0.0583	0.0583	100.0	Pass

22	0.1149	0.1149	100.0	Pass
23	0.1050	0.1050	100.0	Pass
24	0.0862	0.0862	100.0	Pass
25	0.0318	0.0318	100.0	Pass
26	0.1098	0.1098	100.0	Pass
27	0.1100	0.1100	100.0	Pass
28	0.1083	0.1083	100.0	Pass
29	0.0670	0.0670	100.0	Pass
30	0.1140	0.1140	100.0	Pass
31	0.1791	0.1791	100.0	Pass
Sep1	0.0613	0.0613	100.0	Pass
2	0.0664	0.0664	100.0	Pass
3	0.0741	0.0741	100.0	Pass
4	0.0956	0.0956	100.0	Pass
5	0.0809	0.0809	100.0	Pass
6	0.0543	0.0543	100.0	Pass
7	0.1122	0.1122	100.0	Pass
8	0.0683	0.0683	100.0	Pass
9	0.1829	0.1829	100.0	Pass
10	0.0384	0.0384	100.0	Pass
11	0.0340	0.0340	100.0	Pass
12	0.0964	0.0964	100.0	Pass
13	0.1801	0.1801	100.0	Pass
14	0.1099	0.1099	100.0	Pass
15	0.1705	0.1705	100.0	Pass
16	0.1756	0.1756	100.0	Pass
17	0.1945	0.1945	100.0	Pass
18	0.1742	0.1742	100.0	Pass
19	0.1838	0.1838	100.0	Pass
20	0.1290	0.1290	100.0	Pass
21	0.1825	0.1825	100.0	Pass
22	0.1448	0.1448	100.0	Pass
23	0.1146	0.1146	100.0	Pass
24	0.0821	0.0821	100.0	Pass
25	0.0904	0.0904	100.0	Pass
26	0.0914	0.0914	100.0	Pass
27	0.1239	0.1239	100.0	Pass
28	0.1086	0.1086	100.0	Pass
29	0.1461	0.1461	100.0	Pass
30	0.1016	0.1016	100.0	Pass
Oct1	0.0696	0.0696	100.0	Pass
2	0.1913	0.1913	100.0	Pass
3	0.1678	0.1678	100.0	Pass
4	0.2030	0.2030	100.0	Pass
5	0.2145	0.2145	100.0	Pass
6	0.2381	0.2381	100.0	Pass
7	0.3032	0.3032	100.0	Pass
8	0.2406	0.2406	100.0	Pass
9	0.1839	0.1839	100.0	Pass
10	0.1494	0.1494	100.0	Pass
11	0.3002	0.3002	100.0	Pass
12	0.1936	0.1936	100.0	Pass
13	0.2794	0.2794	100.0	Pass
14	0.1484	0.1484	100.0	Pass
15	0.1822	0.1822	100.0	Pass
16	0.2480	0.2480	100.0	Pass
17	0.2245	0.2245	100.0	Pass

18	0.3652	0.3652	100.0	Pass
19	0.4458	0.4458	100.0	Pass
20	0.3816	0.3816	100.0	Pass
21	0.4626	0.4626	100.0	Pass
22	0.2556	0.2556	100.0	Pass
23	0.4495	0.4495	100.0	Pass
24	0.3880	0.3880	100.0	Pass
25	0.3438	0.3438	100.0	Pass
26	0.4242	0.4242	100.0	Pass
27	0.3515	0.3515	100.0	Pass
28	0.3280	0.3280	100.0	Pass
29	0.2733	0.2733	100.0	Pass
30	0.4237	0.4237	100.0	Pass
31	0.3461	0.3461	100.0	Pass
Nov1	0.4428	0.4428	100.0	Pass
2	0.5465	0.5465	100.0	Pass
3	0.4041	0.4041	100.0	Pass
4	0.4187	0.4187	100.0	Pass
5	0.4639	0.4639	100.0	Pass
6	0.3782	0.3782	100.0	Pass
7	0.3435	0.3435	100.0	Pass
8	0.4599	0.4599	100.0	Pass
9	0.5417	0.5417	100.0	Pass
10	0.4545	0.4545	100.0	Pass
11	0.5132	0.5132	100.0	Pass
12	0.4738	0.4738	100.0	Pass
13	0.3387	0.3387	100.0	Pass
14	0.4140	0.4140	100.0	Pass
15	0.4681	0.4681	100.0	Pass
16	0.4896	0.4896	100.0	Pass
17	0.4408	0.4408	100.0	Pass
18	0.6649	0.6649	100.0	Pass
19	0.5801	0.5801	100.0	Pass
20	0.3663	0.3663	100.0	Pass
21	0.6127	0.6127	100.0	Pass
22	0.7339	0.7339	100.0	Pass
23	0.5326	0.5326	100.0	Pass
24	0.6221	0.6221	100.0	Pass
25	0.3881	0.3881	100.0	Pass
26	0.3155	0.3155	100.0	Pass
27	0.4061	0.4061	100.0	Pass
28	0.3863	0.3863	100.0	Pass
29	0.6628	0.6628	100.0	Pass
30	0.5068	0.5068	100.0	Pass
Dec1	0.5683	0.5683	100.0	Pass
2	0.5425	0.5425	100.0	Pass
3	0.3321	0.3321	100.0	Pass
4	0.3852	0.3852	100.0	Pass
5	0.3239	0.3239	100.0	Pass
6	0.2848	0.2848	100.0	Pass
7	0.4284	0.4284	100.0	Pass
8	0.5394	0.5394	100.0	Pass
9	0.5238	0.5238	100.0	Pass
10	0.5625	0.5625	100.0	Pass
11	0.3994	0.3994	100.0	Pass
12	0.4419	0.4419	100.0	Pass
13	0.6810	0.6810	100.0	Pass

14	0.4426	0.4426	100.0	Pass
15	0.6079	0.6079	100.0	Pass
16	0.3853	0.3853	100.0	Pass
17	0.4812	0.4812	100.0	Pass
18	0.3881	0.3881	100.0	Pass
19	0.4713	0.4713	100.0	Pass
20	0.4534	0.4534	100.0	Pass
21	0.4991	0.4991	100.0	Pass
22	0.4932	0.4932	100.0	Pass
23	0.5389	0.5389	100.0	Pass
24	0.6032	0.6032	100.0	Pass
25	0.5057	0.5057	100.0	Pass
26	0.4586	0.4586	100.0	Pass
27	0.2989	0.2989	100.0	Pass
28	0.5074	0.5074	100.0	Pass
29	0.3136	0.3136	100.0	Pass
30	0.3395	0.3395	100.0	Pass
31	0.5962	0.5962	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #8

Total Pervious Area:0.019
Total Impervious Area:0.278

Mitigated Landuse Totals for POC #8

Total Pervious Area:0.019
Total Impervious Area:0.278

Flow Frequency Return Periods for Predeveloped. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.189195
5 year	0.223718
10 year	0.242335
25 year	0.262419
50 year	0.275441
100 year	0.287142

Flow Frequency Return Periods for Mitigated. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.189195
5 year	0.223718
10 year	0.242335
25 year	0.262419
50 year	0.275441
100 year	0.287142

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #8

Year	Predeveloped	Mitigated
1956	0.197	0.197
1957	0.245	0.245
1958	0.189	0.189
1959	0.190	0.190
1960	0.197	0.197
1961	0.163	0.163
1962	0.258	0.258
1963	0.236	0.236
1964	0.207	0.207
1965	0.205	0.205
1966	0.200	0.200
1967	0.130	0.130
1968	0.193	0.193
1969	0.183	0.183
1970	0.176	0.176
1971	0.265	0.265
1972	0.223	0.223
1973	0.209	0.209
1974	0.200	0.200
1975	0.179	0.179
1976	0.218	0.218
1977	0.159	0.159
1978	0.274	0.274
1979	0.173	0.173
1980	0.160	0.160
1981	0.203	0.203
1982	0.235	0.235
1983	0.185	0.185
1984	0.173	0.173
1985	0.134	0.134
1986	0.207	0.207
1987	0.145	0.145
1988	0.220	0.220
1989	0.184	0.184
1990	0.238	0.238
1991	0.161	0.161
1992	0.125	0.125
1993	0.138	0.138
1994	0.177	0.177
1995	0.176	0.176
1996	0.214	0.214
1997	0.206	0.206
1998	0.130	0.130
1999	0.162	0.162
2000	0.149	0.149
2001	0.145	0.145
2002	0.231	0.231
2003	0.253	0.253
2004	0.237	0.237
2005	0.188	0.188
2006	0.191	0.191
2007	0.224	0.224
2008	0.119	0.119
2009	0.114	0.114

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	0.2740	0.2740
2	0.2650	0.2650
3	0.2581	0.2581
4	0.2531	0.2531
5	0.2450	0.2450
6	0.2379	0.2379
7	0.2366	0.2366
8	0.2363	0.2363
9	0.2348	0.2348
10	0.2306	0.2306
11	0.2235	0.2235
12	0.2229	0.2229
13	0.2200	0.2200
14	0.2181	0.2181
15	0.2138	0.2138
16	0.2088	0.2088
17	0.2074	0.2074
18	0.2066	0.2066
19	0.2058	0.2058
20	0.2047	0.2047
21	0.2030	0.2030
22	0.2001	0.2001
23	0.2001	0.2001
24	0.1972	0.1972
25	0.1969	0.1969
26	0.1929	0.1929
27	0.1906	0.1906
28	0.1902	0.1902
29	0.1895	0.1895
30	0.1878	0.1878
31	0.1847	0.1847
32	0.1839	0.1839
33	0.1825	0.1825
34	0.1792	0.1792
35	0.1773	0.1773
36	0.1761	0.1761
37	0.1759	0.1759
38	0.1725	0.1725
39	0.1725	0.1725
40	0.1627	0.1627
41	0.1619	0.1619
42	0.1613	0.1613
43	0.1602	0.1602
44	0.1594	0.1594
45	0.1495	0.1495
46	0.1452	0.1452
47	0.1450	0.1450
48	0.1385	0.1385
49	0.1336	0.1336
50	0.1303	0.1303
51	0.1302	0.1302
52	0.1249	0.1249
53	0.1195	0.1195
54	0.1138	0.1138

Stream Protection Duration

POC #8

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0946	1170	1170	100	Pass
0.0964	1090	1090	100	Pass
0.0983	1028	1028	100	Pass
0.1001	951	951	100	Pass
0.1019	889	889	100	Pass
0.1037	828	828	100	Pass
0.1056	764	764	100	Pass
0.1074	708	708	100	Pass
0.1092	662	662	100	Pass
0.1110	609	609	100	Pass
0.1129	563	563	100	Pass
0.1147	524	524	100	Pass
0.1165	489	489	100	Pass
0.1183	453	453	100	Pass
0.1202	417	417	100	Pass
0.1220	390	390	100	Pass
0.1238	361	361	100	Pass
0.1257	342	342	100	Pass
0.1275	319	319	100	Pass
0.1293	301	301	100	Pass
0.1311	283	283	100	Pass
0.1330	263	263	100	Pass
0.1348	253	253	100	Pass
0.1366	242	242	100	Pass
0.1384	227	227	100	Pass
0.1403	211	211	100	Pass
0.1421	202	202	100	Pass
0.1439	189	189	100	Pass
0.1457	179	179	100	Pass
0.1476	174	174	100	Pass
0.1494	163	163	100	Pass
0.1512	155	155	100	Pass
0.1531	150	150	100	Pass
0.1549	140	140	100	Pass
0.1567	133	133	100	Pass
0.1585	120	120	100	Pass
0.1604	114	114	100	Pass
0.1622	107	107	100	Pass
0.1640	100	100	100	Pass
0.1658	99	99	100	Pass
0.1677	94	94	100	Pass
0.1695	88	88	100	Pass
0.1713	84	84	100	Pass
0.1731	79	79	100	Pass
0.1750	76	76	100	Pass
0.1768	72	72	100	Pass
0.1786	68	68	100	Pass
0.1805	64	64	100	Pass

0.1823	61	61	100	Pass
0.1841	56	56	100	Pass
0.1859	53	53	100	Pass
0.1878	52	52	100	Pass
0.1896	50	50	100	Pass
0.1914	44	44	100	Pass
0.1932	42	42	100	Pass
0.1951	41	41	100	Pass
0.1969	40	40	100	Pass
0.1987	37	37	100	Pass
0.2005	35	35	100	Pass
0.2024	33	33	100	Pass
0.2042	32	32	100	Pass
0.2060	29	29	100	Pass
0.2079	26	26	100	Pass
0.2097	25	25	100	Pass
0.2115	24	24	100	Pass
0.2133	24	24	100	Pass
0.2152	23	23	100	Pass
0.2170	23	23	100	Pass
0.2188	20	20	100	Pass
0.2206	18	18	100	Pass
0.2225	17	17	100	Pass
0.2243	14	14	100	Pass
0.2261	13	13	100	Pass
0.2279	13	13	100	Pass
0.2298	13	13	100	Pass
0.2316	11	11	100	Pass
0.2334	11	11	100	Pass
0.2353	10	10	100	Pass
0.2371	8	8	100	Pass
0.2389	7	7	100	Pass
0.2407	6	6	100	Pass
0.2426	6	6	100	Pass
0.2444	6	6	100	Pass
0.2462	5	5	100	Pass
0.2480	5	5	100	Pass
0.2499	4	4	100	Pass
0.2517	4	4	100	Pass
0.2535	3	3	100	Pass
0.2553	3	3	100	Pass
0.2572	3	3	100	Pass
0.2590	2	2	100	Pass
0.2608	2	2	100	Pass
0.2627	2	2	100	Pass
0.2645	2	2	100	Pass
0.2663	1	1	100	Pass
0.2681	1	1	100	Pass
0.2700	1	1	100	Pass
0.2718	1	1	100	Pass
0.2736	1	1	100	Pass
0.2754	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #8
On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 8

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	11.6789	11.6789	100.0	Pass
Feb	8.9157	8.9157	100.0	Pass
Mar	7.9083	7.9083	100.0	Pass
Apr	4.4414	4.4414	100.0	Pass
May	2.4371	2.4371	100.0	Pass
Jun	1.6346	1.6346	100.0	Pass
Jul	0.8189	0.8189	100.0	Pass
Aug	1.2380	1.2380	100.0	Pass
Sep	2.7769	2.7769	100.0	Pass
Oct	6.6957	6.6957	100.0	Pass
Nov	11.1786	11.1786	100.0	Pass
Dec	11.2672	11.2672	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3758	0.3758	100.0	Pass
2	0.2900	0.2900	100.0	Pass
3	0.3787	0.3787	100.0	Pass
4	0.4502	0.4502	100.0	Pass
5	0.3154	0.3154	100.0	Pass
6	0.4933	0.4933	100.0	Pass
7	0.3686	0.3686	100.0	Pass
8	0.3735	0.3735	100.0	Pass
9	0.4039	0.4039	100.0	Pass
10	0.3872	0.3872	100.0	Pass
11	0.4800	0.4800	100.0	Pass
12	0.3675	0.3675	100.0	Pass
13	0.4744	0.4744	100.0	Pass
14	0.4698	0.4698	100.0	Pass
15	0.4252	0.4252	100.0	Pass
16	0.3409	0.3409	100.0	Pass
17	0.3292	0.3292	100.0	Pass
18	0.2902	0.2902	100.0	Pass
19	0.2942	0.2942	100.0	Pass
20	0.1857	0.1857	100.0	Pass
21	0.3891	0.3891	100.0	Pass
22	0.4618	0.4618	100.0	Pass
23	0.5121	0.5121	100.0	Pass
24	0.3361	0.3361	100.0	Pass
25	0.2842	0.2842	100.0	Pass
26	0.2569	0.2569	100.0	Pass
27	0.3370	0.3370	100.0	Pass
28	0.4323	0.4323	100.0	Pass
29	0.3207	0.3207	100.0	Pass
30	0.3879	0.3879	100.0	Pass
31	0.2209	0.2209	100.0	Pass
Feb1	0.2604	0.2604	100.0	Pass
2	0.2397	0.2397	100.0	Pass
3	0.2148	0.2148	100.0	Pass

4	0.1989	0.1989	100.0	Pass
5	0.3829	0.3829	100.0	Pass
6	0.1783	0.1783	100.0	Pass
7	0.2765	0.2765	100.0	Pass
8	0.2045	0.2045	100.0	Pass
9	0.2542	0.2542	100.0	Pass
10	0.3418	0.3418	100.0	Pass
11	0.4472	0.4472	100.0	Pass
12	0.3385	0.3385	100.0	Pass
13	0.3703	0.3703	100.0	Pass
14	0.5290	0.5290	100.0	Pass
15	0.3676	0.3676	100.0	Pass
16	0.4979	0.4979	100.0	Pass
17	0.4303	0.4303	100.0	Pass
18	0.3293	0.3293	100.0	Pass
19	0.2883	0.2883	100.0	Pass
20	0.2803	0.2803	100.0	Pass
21	0.2294	0.2294	100.0	Pass
22	0.3476	0.3476	100.0	Pass
23	0.3272	0.3272	100.0	Pass
24	0.3613	0.3613	100.0	Pass
25	0.3185	0.3185	100.0	Pass
26	0.3125	0.3125	100.0	Pass
27	0.2719	0.2719	100.0	Pass
28	0.3736	0.3736	100.0	Pass
29	0.2642	0.2642	100.0	Pass
Mar1	0.2619	0.2619	100.0	Pass
2	0.2106	0.2106	100.0	Pass
3	0.3089	0.3089	100.0	Pass
4	0.3211	0.3211	100.0	Pass
5	0.2480	0.2480	100.0	Pass
6	0.3169	0.3169	100.0	Pass
7	0.3136	0.3136	100.0	Pass
8	0.3011	0.3011	100.0	Pass
9	0.3018	0.3018	100.0	Pass
10	0.2595	0.2595	100.0	Pass
11	0.2851	0.2851	100.0	Pass
12	0.2511	0.2511	100.0	Pass
13	0.3088	0.3088	100.0	Pass
14	0.2393	0.2393	100.0	Pass
15	0.1929	0.1929	100.0	Pass
16	0.1890	0.1890	100.0	Pass
17	0.2609	0.2609	100.0	Pass
18	0.1527	0.1527	100.0	Pass
19	0.2420	0.2420	100.0	Pass
20	0.1908	0.1908	100.0	Pass
21	0.3333	0.3333	100.0	Pass
22	0.3709	0.3709	100.0	Pass
23	0.2961	0.2961	100.0	Pass
24	0.1807	0.1807	100.0	Pass
25	0.2995	0.2995	100.0	Pass
26	0.2094	0.2094	100.0	Pass
27	0.2051	0.2051	100.0	Pass
28	0.2300	0.2300	100.0	Pass
29	0.2109	0.2109	100.0	Pass
30	0.1533	0.1533	100.0	Pass
31	0.1235	0.1235	100.0	Pass

Apr1	0.1359	0.1359	100.0	Pass
2	0.1554	0.1554	100.0	Pass
3	0.2192	0.2192	100.0	Pass
4	0.1934	0.1934	100.0	Pass
5	0.2058	0.2058	100.0	Pass
6	0.1042	0.1042	100.0	Pass
7	0.1885	0.1885	100.0	Pass
8	0.1867	0.1867	100.0	Pass
9	0.1659	0.1659	100.0	Pass
10	0.1618	0.1618	100.0	Pass
11	0.2319	0.2319	100.0	Pass
12	0.1920	0.1920	100.0	Pass
13	0.2027	0.2027	100.0	Pass
14	0.1688	0.1688	100.0	Pass
15	0.1819	0.1819	100.0	Pass
16	0.0942	0.0942	100.0	Pass
17	0.1410	0.1410	100.0	Pass
18	0.1639	0.1639	100.0	Pass
19	0.0813	0.0813	100.0	Pass
20	0.0828	0.0828	100.0	Pass
21	0.1480	0.1480	100.0	Pass
22	0.1206	0.1206	100.0	Pass
23	0.1033	0.1033	100.0	Pass
24	0.0825	0.0825	100.0	Pass
25	0.1035	0.1035	100.0	Pass
26	0.1744	0.1744	100.0	Pass
27	0.1308	0.1308	100.0	Pass
28	0.1370	0.1370	100.0	Pass
29	0.0610	0.0610	100.0	Pass
30	0.0898	0.0898	100.0	Pass
May1	0.1443	0.1443	100.0	Pass
2	0.0994	0.0994	100.0	Pass
3	0.1091	0.1091	100.0	Pass
4	0.0834	0.0834	100.0	Pass
5	0.0816	0.0816	100.0	Pass
6	0.0690	0.0690	100.0	Pass
7	0.0941	0.0941	100.0	Pass
8	0.0546	0.0546	100.0	Pass
9	0.0811	0.0811	100.0	Pass
10	0.0641	0.0641	100.0	Pass
11	0.0606	0.0606	100.0	Pass
12	0.0877	0.0877	100.0	Pass
13	0.0944	0.0944	100.0	Pass
14	0.0923	0.0923	100.0	Pass
15	0.0577	0.0577	100.0	Pass
16	0.0800	0.0800	100.0	Pass
17	0.0637	0.0637	100.0	Pass
18	0.1090	0.1090	100.0	Pass
19	0.0533	0.0533	100.0	Pass
20	0.0540	0.0540	100.0	Pass
21	0.0552	0.0552	100.0	Pass
22	0.0698	0.0698	100.0	Pass
23	0.0597	0.0597	100.0	Pass
24	0.0626	0.0626	100.0	Pass
25	0.0515	0.0515	100.0	Pass
26	0.0934	0.0934	100.0	Pass
27	0.0710	0.0710	100.0	Pass

28	0.0780	0.0780	100.0	Pass
29	0.1067	0.1067	100.0	Pass
30	0.0663	0.0663	100.0	Pass
31	0.0729	0.0729	100.0	Pass
Jun1	0.0528	0.0528	100.0	Pass
2	0.0952	0.0952	100.0	Pass
3	0.0893	0.0893	100.0	Pass
4	0.0619	0.0619	100.0	Pass
5	0.1080	0.1080	100.0	Pass
6	0.0361	0.0361	100.0	Pass
7	0.0601	0.0601	100.0	Pass
8	0.0869	0.0869	100.0	Pass
9	0.0640	0.0640	100.0	Pass
10	0.0620	0.0620	100.0	Pass
11	0.0439	0.0439	100.0	Pass
12	0.0556	0.0556	100.0	Pass
13	0.0894	0.0894	100.0	Pass
14	0.0334	0.0334	100.0	Pass
15	0.0723	0.0723	100.0	Pass
16	0.0288	0.0288	100.0	Pass
17	0.0441	0.0441	100.0	Pass
18	0.0280	0.0280	100.0	Pass
19	0.0362	0.0362	100.0	Pass
20	0.0403	0.0403	100.0	Pass
21	0.0396	0.0396	100.0	Pass
22	0.0205	0.0205	100.0	Pass
23	0.1164	0.1164	100.0	Pass
24	0.0262	0.0262	100.0	Pass
25	0.0493	0.0493	100.0	Pass
26	0.0290	0.0290	100.0	Pass
27	0.0270	0.0270	100.0	Pass
28	0.0281	0.0281	100.0	Pass
29	0.0376	0.0376	100.0	Pass
30	0.0810	0.0810	100.0	Pass
Jul1	0.0179	0.0179	100.0	Pass
2	0.0163	0.0163	100.0	Pass
3	0.0186	0.0186	100.0	Pass
4	0.0474	0.0474	100.0	Pass
5	0.0349	0.0349	100.0	Pass
6	0.0263	0.0263	100.0	Pass
7	0.0506	0.0506	100.0	Pass
8	0.0267	0.0267	100.0	Pass
9	0.0598	0.0598	100.0	Pass
10	0.0376	0.0376	100.0	Pass
11	0.0770	0.0770	100.0	Pass
12	0.0342	0.0342	100.0	Pass
13	0.0263	0.0263	100.0	Pass
14	0.0447	0.0447	100.0	Pass
15	0.0167	0.0167	100.0	Pass
16	0.0107	0.0107	100.0	Pass
17	0.0394	0.0394	100.0	Pass
18	0.0116	0.0116	100.0	Pass
19	0.0156	0.0156	100.0	Pass
20	0.0290	0.0290	100.0	Pass
21	0.0221	0.0221	100.0	Pass
22	0.0010	0.0010	100.0	Pass
23	0.0063	0.0063	100.0	Pass

24	0.0076	0.0076	100.0	Pass
25	0.0173	0.0173	100.0	Pass
26	0.0071	0.0071	100.0	Pass
27	0.0109	0.0109	100.0	Pass
28	0.0089	0.0089	100.0	Pass
29	0.0056	0.0056	100.0	Pass
30	0.0099	0.0099	100.0	Pass
31	0.0116	0.0116	100.0	Pass
Aug1	0.0475	0.0475	100.0	Pass
2	0.0154	0.0154	100.0	Pass
3	0.0053	0.0053	100.0	Pass
4	0.0057	0.0057	100.0	Pass
5	0.0533	0.0533	100.0	Pass
6	0.0346	0.0346	100.0	Pass
7	0.0117	0.0117	100.0	Pass
8	0.0126	0.0126	100.0	Pass
9	0.0006	0.0006	100.0	Pass
10	0.0067	0.0067	100.0	Pass
11	0.0346	0.0346	100.0	Pass
12	0.0293	0.0293	100.0	Pass
13	0.0368	0.0368	100.0	Pass
14	0.0216	0.0216	100.0	Pass
15	0.0189	0.0189	100.0	Pass
16	0.0166	0.0166	100.0	Pass
17	0.0340	0.0340	100.0	Pass
18	0.0659	0.0659	100.0	Pass
19	0.0165	0.0165	100.0	Pass
20	0.0506	0.0506	100.0	Pass
21	0.0456	0.0456	100.0	Pass
22	0.0897	0.0897	100.0	Pass
23	0.0821	0.0821	100.0	Pass
24	0.0677	0.0677	100.0	Pass
25	0.0251	0.0251	100.0	Pass
26	0.0858	0.0858	100.0	Pass
27	0.0860	0.0860	100.0	Pass
28	0.0848	0.0848	100.0	Pass
29	0.0525	0.0525	100.0	Pass
30	0.0890	0.0890	100.0	Pass
31	0.1400	0.1400	100.0	Pass
Sep1	0.0483	0.0483	100.0	Pass
2	0.0522	0.0522	100.0	Pass
3	0.0580	0.0580	100.0	Pass
4	0.0748	0.0748	100.0	Pass
5	0.0634	0.0634	100.0	Pass
6	0.0425	0.0425	100.0	Pass
7	0.0876	0.0876	100.0	Pass
8	0.0535	0.0535	100.0	Pass
9	0.1428	0.1428	100.0	Pass
10	0.0302	0.0302	100.0	Pass
11	0.0267	0.0267	100.0	Pass
12	0.0752	0.0752	100.0	Pass
13	0.1406	0.1406	100.0	Pass
14	0.0861	0.0861	100.0	Pass
15	0.1334	0.1334	100.0	Pass
16	0.1376	0.1376	100.0	Pass
17	0.1522	0.1522	100.0	Pass
18	0.1364	0.1364	100.0	Pass

19	0.1441	0.1441	100.0	Pass
20	0.1014	0.1014	100.0	Pass
21	0.1433	0.1433	100.0	Pass
22	0.1138	0.1138	100.0	Pass
23	0.0900	0.0900	100.0	Pass
24	0.0644	0.0644	100.0	Pass
25	0.0708	0.0708	100.0	Pass
26	0.0716	0.0716	100.0	Pass
27	0.0971	0.0971	100.0	Pass
28	0.0850	0.0850	100.0	Pass
29	0.1143	0.1143	100.0	Pass
30	0.0797	0.0797	100.0	Pass
Oct1	0.0547	0.0547	100.0	Pass
2	0.1494	0.1494	100.0	Pass
3	0.1313	0.1313	100.0	Pass
4	0.1589	0.1589	100.0	Pass
5	0.1680	0.1680	100.0	Pass
6	0.1864	0.1864	100.0	Pass
7	0.2374	0.2374	100.0	Pass
8	0.1887	0.1887	100.0	Pass
9	0.1445	0.1445	100.0	Pass
10	0.1174	0.1174	100.0	Pass
11	0.2349	0.2349	100.0	Pass
12	0.1520	0.1520	100.0	Pass
13	0.2188	0.2188	100.0	Pass
14	0.1168	0.1168	100.0	Pass
15	0.1430	0.1430	100.0	Pass
16	0.1945	0.1945	100.0	Pass
17	0.1762	0.1762	100.0	Pass
18	0.2863	0.2863	100.0	Pass
19	0.3498	0.3498	100.0	Pass
20	0.2996	0.2996	100.0	Pass
21	0.3631	0.3631	100.0	Pass
22	0.2016	0.2016	100.0	Pass
23	0.3529	0.3529	100.0	Pass
24	0.3049	0.3049	100.0	Pass
25	0.2704	0.2704	100.0	Pass
26	0.3332	0.3332	100.0	Pass
27	0.2766	0.2766	100.0	Pass
28	0.2581	0.2581	100.0	Pass
29	0.2152	0.2152	100.0	Pass
30	0.3325	0.3325	100.0	Pass
31	0.2723	0.2723	100.0	Pass
Nov1	0.3480	0.3480	100.0	Pass
2	0.4288	0.4288	100.0	Pass
3	0.3183	0.3183	100.0	Pass
4	0.3293	0.3293	100.0	Pass
5	0.3648	0.3648	100.0	Pass
6	0.2980	0.2980	100.0	Pass
7	0.2706	0.2706	100.0	Pass
8	0.3612	0.3612	100.0	Pass
9	0.4256	0.4256	100.0	Pass
10	0.3577	0.3577	100.0	Pass
11	0.4036	0.4036	100.0	Pass
12	0.3726	0.3726	100.0	Pass
13	0.2673	0.2673	100.0	Pass
14	0.3257	0.3257	100.0	Pass

15	0.3680	0.3680	100.0	Pass
16	0.3849	0.3849	100.0	Pass
17	0.3470	0.3470	100.0	Pass
18	0.5224	0.5224	100.0	Pass
19	0.4565	0.4565	100.0	Pass
20	0.2894	0.2894	100.0	Pass
21	0.4817	0.4817	100.0	Pass
22	0.5764	0.5764	100.0	Pass
23	0.4198	0.4198	100.0	Pass
24	0.4896	0.4896	100.0	Pass
25	0.3068	0.3068	100.0	Pass
26	0.2494	0.2494	100.0	Pass
27	0.3196	0.3196	100.0	Pass
28	0.3041	0.3041	100.0	Pass
29	0.5204	0.5204	100.0	Pass
30	0.3992	0.3992	100.0	Pass
Dec1	0.4471	0.4471	100.0	Pass
2	0.4273	0.4273	100.0	Pass
3	0.2625	0.2625	100.0	Pass
4	0.3035	0.3035	100.0	Pass
5	0.2556	0.2556	100.0	Pass
6	0.2245	0.2245	100.0	Pass
7	0.3366	0.3366	100.0	Pass
8	0.4237	0.4237	100.0	Pass
9	0.4121	0.4121	100.0	Pass
10	0.4428	0.4428	100.0	Pass
11	0.3150	0.3150	100.0	Pass
12	0.3480	0.3480	100.0	Pass
13	0.5349	0.5349	100.0	Pass
14	0.3494	0.3494	100.0	Pass
15	0.4780	0.4780	100.0	Pass
16	0.3044	0.3044	100.0	Pass
17	0.3789	0.3789	100.0	Pass
18	0.3060	0.3060	100.0	Pass
19	0.3707	0.3707	100.0	Pass
20	0.3571	0.3571	100.0	Pass
21	0.3930	0.3930	100.0	Pass
22	0.3883	0.3883	100.0	Pass
23	0.4241	0.4241	100.0	Pass
24	0.4744	0.4744	100.0	Pass
25	0.3987	0.3987	100.0	Pass
26	0.3617	0.3617	100.0	Pass
27	0.2363	0.2363	100.0	Pass
28	0.3990	0.3990	100.0	Pass
29	0.2478	0.2478	100.0	Pass
30	0.2675	0.2675	100.0	Pass
31	0.4684	0.4684	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #9
Total Pervious Area:0.166

Total Impervious Area:0.173

Mitigated Landuse Totals for POC #9

Total Pervious Area:0.166

Total Impervious Area:0.173

Flow Frequency Return Periods for Predeveloped. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.16835
5 year	0.208654
10 year	0.231142
25 year	0.255952
50 year	0.272329
100 year	0.28723

Flow Frequency Return Periods for Mitigated. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.16835
5 year	0.208654
10 year	0.231142
25 year	0.255952
50 year	0.272329
100 year	0.28723

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #9

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.195	0.195
1957	0.223	0.223
1958	0.162	0.162
1959	0.183	0.183
1960	0.193	0.193
1961	0.131	0.131
1962	0.255	0.255
1963	0.228	0.228
1964	0.184	0.184
1965	0.191	0.191
1966	0.195	0.195
1967	0.109	0.109
1968	0.180	0.180
1969	0.179	0.179
1970	0.144	0.144
1971	0.257	0.257
1972	0.224	0.224
1973	0.188	0.188
1974	0.197	0.197
1975	0.165	0.165
1976	0.206	0.206
1977	0.140	0.140
1978	0.249	0.249
1979	0.160	0.160
1980	0.143	0.143
1981	0.180	0.180
1982	0.207	0.207

1983	0.165	0.165
1984	0.161	0.161
1985	0.100	0.100
1986	0.191	0.191
1987	0.130	0.130
1988	0.204	0.204
1989	0.163	0.163
1990	0.231	0.231
1991	0.136	0.136
1992	0.101	0.101
1993	0.109	0.109
1994	0.158	0.158
1995	0.124	0.124
1996	0.157	0.157
1997	0.178	0.178
1998	0.106	0.106
1999	0.142	0.142
2000	0.131	0.131
2001	0.113	0.113
2002	0.150	0.150
2003	0.251	0.251
2004	0.225	0.225
2005	0.171	0.171
2006	0.178	0.178
2007	0.216	0.216
2008	0.096	0.096
2009	0.088	0.088

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #9

Rank	Predeveloped	Mitigated
1	0.2571	0.2571
2	0.2549	0.2549
3	0.2515	0.2515
4	0.2493	0.2493
5	0.2314	0.2314
6	0.2278	0.2278
7	0.2252	0.2252
8	0.2235	0.2235
9	0.2235	0.2235
10	0.2156	0.2156
11	0.2068	0.2068
12	0.2057	0.2057
13	0.2042	0.2042
14	0.1966	0.1966
15	0.1952	0.1952
16	0.1948	0.1948
17	0.1930	0.1930
18	0.1909	0.1909
19	0.1907	0.1907
20	0.1876	0.1876
21	0.1836	0.1836
22	0.1827	0.1827
23	0.1803	0.1803
24	0.1801	0.1801
25	0.1792	0.1792

26	0.1783	0.1783
27	0.1783	0.1783
28	0.1711	0.1711
29	0.1646	0.1646
30	0.1646	0.1646
31	0.1633	0.1633
32	0.1621	0.1621
33	0.1606	0.1606
34	0.1598	0.1598
35	0.1581	0.1581
36	0.1574	0.1574
37	0.1503	0.1503
38	0.1445	0.1445
39	0.1431	0.1431
40	0.1416	0.1416
41	0.1400	0.1400
42	0.1360	0.1360
43	0.1313	0.1313
44	0.1308	0.1308
45	0.1303	0.1303
46	0.1243	0.1243
47	0.1134	0.1134
48	0.1093	0.1093
49	0.1089	0.1089
50	0.1055	0.1055
51	0.1013	0.1013
52	0.1001	0.1001
53	0.0958	0.0958
54	0.0876	0.0876

Stream Protection Duration

POC #9

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0842	782	782	100	Pass
0.0861	733	733	100	Pass
0.0880	683	683	100	Pass
0.0899	638	638	100	Pass
0.0918	596	596	100	Pass
0.0937	554	554	100	Pass
0.0956	522	522	100	Pass
0.0975	480	480	100	Pass
0.0994	438	438	100	Pass
0.1013	403	403	100	Pass
0.1032	376	376	100	Pass
0.1051	357	357	100	Pass
0.1070	340	340	100	Pass
0.1089	326	326	100	Pass
0.1108	298	298	100	Pass
0.1127	275	275	100	Pass
0.1146	246	246	100	Pass
0.1165	236	236	100	Pass
0.1184	219	219	100	Pass

0.1203	211	211	100	Pass
0.1222	199	199	100	Pass
0.1241	190	190	100	Pass
0.1260	182	182	100	Pass
0.1279	170	170	100	Pass
0.1298	163	163	100	Pass
0.1317	148	148	100	Pass
0.1336	145	145	100	Pass
0.1355	139	139	100	Pass
0.1374	129	129	100	Pass
0.1393	125	125	100	Pass
0.1412	119	119	100	Pass
0.1431	113	113	100	Pass
0.1450	106	106	100	Pass
0.1469	101	101	100	Pass
0.1488	95	95	100	Pass
0.1507	92	92	100	Pass
0.1526	88	88	100	Pass
0.1545	81	81	100	Pass
0.1564	79	79	100	Pass
0.1583	74	74	100	Pass
0.1602	70	70	100	Pass
0.1621	67	67	100	Pass
0.1640	63	63	100	Pass
0.1659	59	59	100	Pass
0.1678	55	55	100	Pass
0.1697	54	54	100	Pass
0.1716	50	50	100	Pass
0.1735	48	48	100	Pass
0.1754	48	48	100	Pass
0.1773	48	48	100	Pass
0.1792	44	44	100	Pass
0.1811	41	41	100	Pass
0.1830	38	38	100	Pass
0.1849	36	36	100	Pass
0.1868	34	34	100	Pass
0.1887	32	32	100	Pass
0.1906	32	32	100	Pass
0.1925	29	29	100	Pass
0.1944	28	28	100	Pass
0.1963	26	26	100	Pass
0.1982	23	23	100	Pass
0.2001	22	22	100	Pass
0.2020	21	21	100	Pass
0.2039	20	20	100	Pass
0.2058	17	17	100	Pass
0.2077	14	14	100	Pass
0.2096	14	14	100	Pass
0.2115	14	14	100	Pass
0.2134	13	13	100	Pass
0.2153	12	12	100	Pass
0.2172	11	11	100	Pass
0.2191	11	11	100	Pass
0.2210	11	11	100	Pass
0.2229	11	11	100	Pass
0.2248	9	9	100	Pass
0.2267	8	8	100	Pass

0.2286	7	7	100	Pass
0.2305	7	7	100	Pass
0.2324	6	6	100	Pass
0.2343	6	6	100	Pass
0.2362	6	6	100	Pass
0.2381	6	6	100	Pass
0.2400	6	6	100	Pass
0.2419	5	5	100	Pass
0.2438	5	5	100	Pass
0.2457	4	4	100	Pass
0.2476	4	4	100	Pass
0.2495	3	3	100	Pass
0.2514	3	3	100	Pass
0.2533	2	2	100	Pass
0.2552	1	1	100	Pass
0.2571	1	1	100	Pass
0.2590	0	0	100	Pass
0.2609	0	0	0	Pass
0.2628	0	0	0	Pass
0.2647	0	0	0	Pass
0.2666	0	0	0	Pass
0.2685	0	0	0	Pass
0.2704	0	0	0	Pass
0.2723	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #9
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 9

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	12.0640	12.0640	100.0	Pass
Feb	9.2963	9.2963	100.0	Pass
Mar	8.1905	8.1905	100.0	Pass
Apr	4.4388	4.4388	100.0	Pass
May	2.1815	2.1815	100.0	Pass
Jun	1.3853	1.3853	100.0	Pass
Jul	0.6517	0.6517	100.0	Pass
Aug	0.9444	0.9444	100.0	Pass
Sep	2.3189	2.3189	100.0	Pass
Oct	6.1036	6.1036	100.0	Pass
Nov	11.1575	11.1575	100.0	Pass
Dec	11.6409	11.6409	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3841	0.3841	100.0	Pass
2	0.3154	0.3154	100.0	Pass
3	0.3800	0.3800	100.0	Pass
4	0.4327	0.4327	100.0	Pass

5	0.3434	0.3434	100.0	Pass
6	0.4699	0.4699	100.0	Pass
7	0.3961	0.3961	100.0	Pass
8	0.3901	0.3901	100.0	Pass
9	0.4036	0.4036	100.0	Pass
10	0.4040	0.4040	100.0	Pass
11	0.4800	0.4800	100.0	Pass
12	0.3999	0.3999	100.0	Pass
13	0.4764	0.4764	100.0	Pass
14	0.4836	0.4836	100.0	Pass
15	0.4494	0.4494	100.0	Pass
16	0.3875	0.3875	100.0	Pass
17	0.3653	0.3653	100.0	Pass
18	0.3234	0.3234	100.0	Pass
19	0.3124	0.3124	100.0	Pass
20	0.2232	0.2232	100.0	Pass
21	0.3492	0.3492	100.0	Pass
22	0.4455	0.4455	100.0	Pass
23	0.5098	0.5098	100.0	Pass
24	0.3810	0.3810	100.0	Pass
25	0.3243	0.3243	100.0	Pass
26	0.2922	0.2922	100.0	Pass
27	0.3388	0.3388	100.0	Pass
28	0.4232	0.4232	100.0	Pass
29	0.3477	0.3477	100.0	Pass
30	0.3898	0.3898	100.0	Pass
31	0.2636	0.2636	100.0	Pass
Feb1	0.2793	0.2793	100.0	Pass
2	0.2506	0.2506	100.0	Pass
3	0.2307	0.2307	100.0	Pass
4	0.2139	0.2139	100.0	Pass
5	0.3545	0.3545	100.0	Pass
6	0.2170	0.2170	100.0	Pass
7	0.2736	0.2736	100.0	Pass
8	0.2211	0.2211	100.0	Pass
9	0.2474	0.2474	100.0	Pass
10	0.3208	0.3208	100.0	Pass
11	0.4305	0.4305	100.0	Pass
12	0.3642	0.3642	100.0	Pass
13	0.3753	0.3753	100.0	Pass
14	0.4996	0.4996	100.0	Pass
15	0.4066	0.4066	100.0	Pass
16	0.4936	0.4936	100.0	Pass
17	0.4534	0.4534	100.0	Pass
18	0.3819	0.3819	100.0	Pass
19	0.3281	0.3281	100.0	Pass
20	0.3104	0.3104	100.0	Pass
21	0.2547	0.2547	100.0	Pass
22	0.3448	0.3448	100.0	Pass
23	0.3360	0.3360	100.0	Pass
24	0.3679	0.3679	100.0	Pass
25	0.3390	0.3390	100.0	Pass
26	0.3373	0.3373	100.0	Pass
27	0.2994	0.2994	100.0	Pass
28	0.3928	0.3928	100.0	Pass
29	0.2827	0.2827	100.0	Pass
Mar1	0.2744	0.2744	100.0	Pass

2	0.2319	0.2319	100.0	Pass
3	0.3022	0.3022	100.0	Pass
4	0.3213	0.3213	100.0	Pass
5	0.2629	0.2629	100.0	Pass
6	0.3247	0.3247	100.0	Pass
7	0.3121	0.3121	100.0	Pass
8	0.3107	0.3107	100.0	Pass
9	0.3117	0.3117	100.0	Pass
10	0.2796	0.2796	100.0	Pass
11	0.2959	0.2959	100.0	Pass
12	0.2643	0.2643	100.0	Pass
13	0.3112	0.3112	100.0	Pass
14	0.2591	0.2591	100.0	Pass
15	0.2139	0.2139	100.0	Pass
16	0.1998	0.1998	100.0	Pass
17	0.2619	0.2619	100.0	Pass
18	0.1747	0.1747	100.0	Pass
19	0.2346	0.2346	100.0	Pass
20	0.1977	0.1977	100.0	Pass
21	0.3081	0.3081	100.0	Pass
22	0.3511	0.3511	100.0	Pass
23	0.3135	0.3135	100.0	Pass
24	0.2209	0.2209	100.0	Pass
25	0.2942	0.2942	100.0	Pass
26	0.2330	0.2330	100.0	Pass
27	0.2133	0.2133	100.0	Pass
28	0.2389	0.2389	100.0	Pass
29	0.2183	0.2183	100.0	Pass
30	0.1725	0.1725	100.0	Pass
31	0.1389	0.1389	100.0	Pass
Apr1	0.1410	0.1410	100.0	Pass
2	0.1535	0.1535	100.0	Pass
3	0.1982	0.1982	100.0	Pass
4	0.1908	0.1908	100.0	Pass
5	0.2110	0.2110	100.0	Pass
6	0.1259	0.1259	100.0	Pass
7	0.1773	0.1773	100.0	Pass
8	0.1858	0.1858	100.0	Pass
9	0.1634	0.1634	100.0	Pass
10	0.1671	0.1671	100.0	Pass
11	0.2095	0.2095	100.0	Pass
12	0.1931	0.1931	100.0	Pass
13	0.1969	0.1969	100.0	Pass
14	0.1752	0.1752	100.0	Pass
15	0.1861	0.1861	100.0	Pass
16	0.1157	0.1157	100.0	Pass
17	0.1380	0.1380	100.0	Pass
18	0.1553	0.1553	100.0	Pass
19	0.0979	0.0979	100.0	Pass
20	0.0870	0.0870	100.0	Pass
21	0.1316	0.1316	100.0	Pass
22	0.1143	0.1143	100.0	Pass
23	0.1041	0.1041	100.0	Pass
24	0.0853	0.0853	100.0	Pass
25	0.0955	0.0955	100.0	Pass
26	0.1589	0.1589	100.0	Pass
27	0.1305	0.1305	100.0	Pass

28	0.1359	0.1359	100.0	Pass
29	0.0755	0.0755	100.0	Pass
30	0.0849	0.0849	100.0	Pass
May1	0.1229	0.1229	100.0	Pass
2	0.0986	0.0986	100.0	Pass
3	0.1003	0.1003	100.0	Pass
4	0.0838	0.0838	100.0	Pass
5	0.0784	0.0784	100.0	Pass
6	0.0659	0.0659	100.0	Pass
7	0.0833	0.0833	100.0	Pass
8	0.0560	0.0560	100.0	Pass
9	0.0708	0.0708	100.0	Pass
10	0.0579	0.0579	100.0	Pass
11	0.0537	0.0537	100.0	Pass
12	0.0752	0.0752	100.0	Pass
13	0.0808	0.0808	100.0	Pass
14	0.0790	0.0790	100.0	Pass
15	0.0592	0.0592	100.0	Pass
16	0.0687	0.0687	100.0	Pass
17	0.0591	0.0591	100.0	Pass
18	0.0870	0.0870	100.0	Pass
19	0.0520	0.0520	100.0	Pass
20	0.0473	0.0473	100.0	Pass
21	0.0483	0.0483	100.0	Pass
22	0.0563	0.0563	100.0	Pass
23	0.0520	0.0520	100.0	Pass
24	0.0548	0.0548	100.0	Pass
25	0.0471	0.0471	100.0	Pass
26	0.0761	0.0761	100.0	Pass
27	0.0631	0.0631	100.0	Pass
28	0.0665	0.0665	100.0	Pass
29	0.0905	0.0905	100.0	Pass
30	0.0625	0.0625	100.0	Pass
31	0.0675	0.0675	100.0	Pass
Jun1	0.0538	0.0538	100.0	Pass
2	0.0759	0.0759	100.0	Pass
3	0.0729	0.0729	100.0	Pass
4	0.0555	0.0555	100.0	Pass
5	0.0866	0.0866	100.0	Pass
6	0.0398	0.0398	100.0	Pass
7	0.0542	0.0542	100.0	Pass
8	0.0729	0.0729	100.0	Pass
9	0.0566	0.0566	100.0	Pass
10	0.0518	0.0518	100.0	Pass
11	0.0391	0.0391	100.0	Pass
12	0.0443	0.0443	100.0	Pass
13	0.0701	0.0701	100.0	Pass
14	0.0337	0.0337	100.0	Pass
15	0.0589	0.0589	100.0	Pass
16	0.0303	0.0303	100.0	Pass
17	0.0379	0.0379	100.0	Pass
18	0.0285	0.0285	100.0	Pass
19	0.0294	0.0294	100.0	Pass
20	0.0308	0.0308	100.0	Pass
21	0.0322	0.0322	100.0	Pass
22	0.0192	0.0192	100.0	Pass
23	0.0820	0.0820	100.0	Pass

24	0.0296	0.0296	100.0	Pass
25	0.0398	0.0398	100.0	Pass
26	0.0242	0.0242	100.0	Pass
27	0.0206	0.0206	100.0	Pass
28	0.0208	0.0208	100.0	Pass
29	0.0266	0.0266	100.0	Pass
30	0.0591	0.0591	100.0	Pass
Jul11	0.0182	0.0182	100.0	Pass
2	0.0140	0.0140	100.0	Pass
3	0.0140	0.0140	100.0	Pass
4	0.0311	0.0311	100.0	Pass
5	0.0240	0.0240	100.0	Pass
6	0.0185	0.0185	100.0	Pass
7	0.0368	0.0368	100.0	Pass
8	0.0236	0.0236	100.0	Pass
9	0.0435	0.0435	100.0	Pass
10	0.0304	0.0304	100.0	Pass
11	0.0627	0.0627	100.0	Pass
12	0.0396	0.0396	100.0	Pass
13	0.0275	0.0275	100.0	Pass
14	0.0360	0.0360	100.0	Pass
15	0.0160	0.0160	100.0	Pass
16	0.0099	0.0099	100.0	Pass
17	0.0294	0.0294	100.0	Pass
18	0.0125	0.0125	100.0	Pass
19	0.0132	0.0132	100.0	Pass
20	0.0207	0.0207	100.0	Pass
21	0.0179	0.0179	100.0	Pass
22	0.0032	0.0032	100.0	Pass
23	0.0052	0.0052	100.0	Pass
24	0.0054	0.0054	100.0	Pass
25	0.0112	0.0112	100.0	Pass
26	0.0047	0.0047	100.0	Pass
27	0.0070	0.0070	100.0	Pass
28	0.0059	0.0059	100.0	Pass
29	0.0040	0.0040	100.0	Pass
30	0.0065	0.0065	100.0	Pass
31	0.0075	0.0075	100.0	Pass
Aug1	0.0310	0.0310	100.0	Pass
2	0.0125	0.0125	100.0	Pass
3	0.0056	0.0056	100.0	Pass
4	0.0050	0.0050	100.0	Pass
5	0.0363	0.0363	100.0	Pass
6	0.0260	0.0260	100.0	Pass
7	0.0105	0.0105	100.0	Pass
8	0.0096	0.0096	100.0	Pass
9	0.0013	0.0013	100.0	Pass
10	0.0048	0.0048	100.0	Pass
11	0.0225	0.0225	100.0	Pass
12	0.0197	0.0197	100.0	Pass
13	0.0251	0.0251	100.0	Pass
14	0.0169	0.0169	100.0	Pass
15	0.0160	0.0160	100.0	Pass
16	0.0129	0.0129	100.0	Pass
17	0.0227	0.0227	100.0	Pass
18	0.0435	0.0435	100.0	Pass
19	0.0150	0.0150	100.0	Pass

20	0.0346	0.0346	100.0	Pass
21	0.0337	0.0337	100.0	Pass
22	0.0642	0.0642	100.0	Pass
23	0.0640	0.0640	100.0	Pass
24	0.0618	0.0618	100.0	Pass
25	0.0289	0.0289	100.0	Pass
26	0.0635	0.0635	100.0	Pass
27	0.0675	0.0675	100.0	Pass
28	0.0703	0.0703	100.0	Pass
29	0.0456	0.0456	100.0	Pass
30	0.0659	0.0659	100.0	Pass
31	0.1074	0.1074	100.0	Pass
Sep1	0.0526	0.0526	100.0	Pass
2	0.0486	0.0486	100.0	Pass
3	0.0494	0.0494	100.0	Pass
4	0.0584	0.0584	100.0	Pass
5	0.0513	0.0513	100.0	Pass
6	0.0366	0.0366	100.0	Pass
7	0.0632	0.0632	100.0	Pass
8	0.0443	0.0443	100.0	Pass
9	0.1018	0.1018	100.0	Pass
10	0.0303	0.0303	100.0	Pass
11	0.0233	0.0233	100.0	Pass
12	0.0540	0.0540	100.0	Pass
13	0.1029	0.1029	100.0	Pass
14	0.0722	0.0722	100.0	Pass
15	0.1036	0.1036	100.0	Pass
16	0.1180	0.1180	100.0	Pass
17	0.1237	0.1237	100.0	Pass
18	0.1126	0.1126	100.0	Pass
19	0.1242	0.1242	100.0	Pass
20	0.0983	0.0983	100.0	Pass
21	0.1304	0.1304	100.0	Pass
22	0.1068	0.1068	100.0	Pass
23	0.0836	0.0836	100.0	Pass
24	0.0602	0.0602	100.0	Pass
25	0.0590	0.0590	100.0	Pass
26	0.0595	0.0595	100.0	Pass
27	0.0825	0.0825	100.0	Pass
28	0.0703	0.0703	100.0	Pass
29	0.0899	0.0899	100.0	Pass
30	0.0708	0.0708	100.0	Pass
Oct1	0.0520	0.0520	100.0	Pass
2	0.1109	0.1109	100.0	Pass
3	0.1032	0.1032	100.0	Pass
4	0.1294	0.1294	100.0	Pass
5	0.1391	0.1391	100.0	Pass
6	0.1524	0.1524	100.0	Pass
7	0.1975	0.1975	100.0	Pass
8	0.1696	0.1696	100.0	Pass
9	0.1357	0.1357	100.0	Pass
10	0.1120	0.1120	100.0	Pass
11	0.1886	0.1886	100.0	Pass
12	0.1384	0.1384	100.0	Pass
13	0.1797	0.1797	100.0	Pass
14	0.1186	0.1186	100.0	Pass
15	0.1302	0.1302	100.0	Pass

16	0.1726	0.1726	100.0	Pass
17	0.1606	0.1606	100.0	Pass
18	0.2499	0.2499	100.0	Pass
19	0.3139	0.3139	100.0	Pass
20	0.2756	0.2756	100.0	Pass
21	0.3306	0.3306	100.0	Pass
22	0.2197	0.2197	100.0	Pass
23	0.3227	0.3227	100.0	Pass
24	0.2923	0.2923	100.0	Pass
25	0.2663	0.2663	100.0	Pass
26	0.3116	0.3116	100.0	Pass
27	0.2778	0.2778	100.0	Pass
28	0.2572	0.2572	100.0	Pass
29	0.2234	0.2234	100.0	Pass
30	0.3021	0.3021	100.0	Pass
31	0.2718	0.2718	100.0	Pass
Nov1	0.3337	0.3337	100.0	Pass
2	0.3872	0.3872	100.0	Pass
3	0.3316	0.3316	100.0	Pass
4	0.3233	0.3233	100.0	Pass
5	0.3558	0.3558	100.0	Pass
6	0.3113	0.3113	100.0	Pass
7	0.2811	0.2811	100.0	Pass
8	0.3390	0.3390	100.0	Pass
9	0.4028	0.4028	100.0	Pass
10	0.3589	0.3589	100.0	Pass
11	0.3941	0.3941	100.0	Pass
12	0.3656	0.3656	100.0	Pass
13	0.2973	0.2973	100.0	Pass
14	0.3229	0.3229	100.0	Pass
15	0.3589	0.3589	100.0	Pass
16	0.3737	0.3737	100.0	Pass
17	0.3512	0.3512	100.0	Pass
18	0.4930	0.4930	100.0	Pass
19	0.4615	0.4615	100.0	Pass
20	0.3308	0.3308	100.0	Pass
21	0.4681	0.4681	100.0	Pass
22	0.5389	0.5389	100.0	Pass
23	0.4484	0.4484	100.0	Pass
24	0.4951	0.4951	100.0	Pass
25	0.3586	0.3586	100.0	Pass
26	0.2911	0.2911	100.0	Pass
27	0.3218	0.3218	100.0	Pass
28	0.3086	0.3086	100.0	Pass
29	0.4819	0.4819	100.0	Pass
30	0.4163	0.4163	100.0	Pass
Dec1	0.4474	0.4474	100.0	Pass
2	0.4446	0.4446	100.0	Pass
3	0.3072	0.3072	100.0	Pass
4	0.3172	0.3172	100.0	Pass
5	0.2819	0.2819	100.0	Pass
6	0.2392	0.2392	100.0	Pass
7	0.3197	0.3197	100.0	Pass
8	0.4000	0.4000	100.0	Pass
9	0.4127	0.4127	100.0	Pass
10	0.4492	0.4492	100.0	Pass
11	0.3433	0.3433	100.0	Pass

12	0.3587	0.3587	100.0	Pass
13	0.5010	0.5010	100.0	Pass
14	0.3891	0.3891	100.0	Pass
15	0.4686	0.4686	100.0	Pass
16	0.3496	0.3496	100.0	Pass
17	0.3873	0.3873	100.0	Pass
18	0.3289	0.3289	100.0	Pass
19	0.3644	0.3644	100.0	Pass
20	0.3689	0.3689	100.0	Pass
21	0.4061	0.4061	100.0	Pass
22	0.3968	0.3968	100.0	Pass
23	0.4268	0.4268	100.0	Pass
24	0.4640	0.4640	100.0	Pass
25	0.4273	0.4273	100.0	Pass
26	0.3928	0.3928	100.0	Pass
27	0.2764	0.2764	100.0	Pass
28	0.3888	0.3888	100.0	Pass
29	0.2858	0.2858	100.0	Pass
30	0.2814	0.2814	100.0	Pass
31	0.4428	0.4428	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #10

Total Pervious Area:4.188

Total Impervious Area:1.565

Mitigated Landuse Totals for POC #10

Total Pervious Area:4.188

Total Impervious Area:1.565

Flow Frequency Return Periods for Predeveloped. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.777298
5 year	2.287993
10 year	2.588522
25 year	2.933893
50 year	3.170251
100 year	3.391392

Flow Frequency Return Periods for Mitigated. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.777298
5 year	2.287993
10 year	2.588522
25 year	2.933893
50 year	3.170251
100 year	3.391392

Stream Protection Duration**Annual Peaks for Predeveloped and Mitigated. POC #10**

Year	Predeveloped	Mitigated
1956	2.124	2.124
1957	2.596	2.596
1958	1.757	1.757
1959	1.813	1.813
1960	2.034	2.034
1961	1.407	1.407
1962	2.965	2.965
1963	2.752	2.752
1964	1.830	1.830
1965	2.153	2.153
1966	2.055	2.055
1967	1.153	1.153
1968	1.885	1.885
1969	2.441	2.441
1970	1.483	1.483
1971	2.710	2.710
1972	2.612	2.612
1973	2.229	2.229
1974	2.149	2.149
1975	1.691	1.691
1976	2.161	2.161
1977	1.386	1.386
1978	2.769	2.769
1979	1.755	1.755
1980	1.412	1.412
1981	2.101	2.101
1982	2.118	2.118
1983	1.956	1.956
1984	1.609	1.609
1985	1.016	1.016
1986	2.130	2.130
1987	1.419	1.419
1988	1.996	1.996
1989	1.647	1.647
1990	2.583	2.583
1991	1.795	1.795
1992	1.085	1.085
1993	1.028	1.028
1994	1.609	1.609
1995	1.169	1.169
1996	1.487	1.487
1997	1.852	1.852
1998	1.048	1.048
1999	1.500	1.500
2000	1.398	1.398
2001	0.967	0.967
2002	1.422	1.422
2003	2.774	2.774
2004	2.259	2.259
2005	1.595	1.595
2006	1.973	1.973
2007	2.261	2.261
2008	0.975	0.975
2009	0.858	0.858

Stream Protection Duration**Ranked Annual Peaks for Predeveloped and Mitigated. POC #10**

Rank	Predeveloped	Mitigated
1	2.9653	2.9653
2	2.7737	2.7737
3	2.7689	2.7689
4	2.7519	2.7519
5	2.7102	2.7102
6	2.6120	2.6120
7	2.5959	2.5959
8	2.5835	2.5835
9	2.4405	2.4405
10	2.2607	2.2607
11	2.2587	2.2587
12	2.2294	2.2294
13	2.1608	2.1608
14	2.1528	2.1528
15	2.1486	2.1486
16	2.1299	2.1299
17	2.1242	2.1242
18	2.1178	2.1178
19	2.1011	2.1011
20	2.0551	2.0551
21	2.0341	2.0341
22	1.9960	1.9960
23	1.9733	1.9733
24	1.9558	1.9558
25	1.8854	1.8854
26	1.8525	1.8525
27	1.8300	1.8300
28	1.8127	1.8127
29	1.7951	1.7951
30	1.7569	1.7569
31	1.7549	1.7549
32	1.6912	1.6912
33	1.6474	1.6474
34	1.6092	1.6092
35	1.6086	1.6086
36	1.5950	1.5950
37	1.5001	1.5001
38	1.4870	1.4870
39	1.4830	1.4830
40	1.4220	1.4220
41	1.4194	1.4194
42	1.4115	1.4115
43	1.4065	1.4065
44	1.3978	1.3978
45	1.3863	1.3863
46	1.1689	1.1689
47	1.1533	1.1533
48	1.0850	1.0850
49	1.0479	1.0479
50	1.0277	1.0277
51	1.0164	1.0164
52	0.9746	0.9746

53	0.9675	0.9675
54	0.8581	0.8581

Stream Protection Duration

POC #10

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.8886	873	873	100	Pass
0.9117	789	789	100	Pass
0.9347	714	714	100	Pass
0.9578	653	653	100	Pass
0.9808	594	594	100	Pass
1.0039	526	526	100	Pass
1.0269	483	483	100	Pass
1.0500	452	452	100	Pass
1.0730	411	411	100	Pass
1.0961	389	389	100	Pass
1.1191	356	356	100	Pass
1.1422	329	329	100	Pass
1.1652	307	307	100	Pass
1.1883	273	273	100	Pass
1.2113	252	252	100	Pass
1.2343	231	231	100	Pass
1.2574	215	215	100	Pass
1.2804	203	203	100	Pass
1.3035	189	189	100	Pass
1.3265	179	179	100	Pass
1.3496	167	167	100	Pass
1.3726	161	161	100	Pass
1.3957	149	149	100	Pass
1.4187	139	139	100	Pass
1.4418	128	128	100	Pass
1.4648	116	116	100	Pass
1.4879	104	104	100	Pass
1.5109	101	101	100	Pass
1.5340	95	95	100	Pass
1.5570	93	93	100	Pass
1.5800	91	91	100	Pass
1.6031	85	85	100	Pass
1.6261	80	80	100	Pass
1.6492	76	76	100	Pass
1.6722	76	76	100	Pass
1.6953	69	69	100	Pass
1.7183	69	69	100	Pass
1.7414	66	66	100	Pass
1.7644	57	57	100	Pass
1.7875	55	55	100	Pass
1.8105	53	53	100	Pass
1.8336	50	50	100	Pass
1.8566	48	48	100	Pass
1.8796	46	46	100	Pass
1.9027	43	43	100	Pass
1.9257	43	43	100	Pass

1.9488	43	43	100	Pass
1.9718	42	42	100	Pass
1.9949	38	38	100	Pass
2.0179	35	35	100	Pass
2.0410	34	34	100	Pass
2.0640	30	30	100	Pass
2.0871	30	30	100	Pass
2.1101	28	28	100	Pass
2.1332	24	24	100	Pass
2.1562	20	20	100	Pass
2.1793	19	19	100	Pass
2.2023	17	17	100	Pass
2.2253	16	16	100	Pass
2.2484	15	15	100	Pass
2.2714	12	12	100	Pass
2.2945	11	11	100	Pass
2.3175	11	11	100	Pass
2.3406	11	11	100	Pass
2.3636	11	11	100	Pass
2.3867	11	11	100	Pass
2.4097	11	11	100	Pass
2.4328	11	11	100	Pass
2.4558	10	10	100	Pass
2.4789	10	10	100	Pass
2.5019	10	10	100	Pass
2.5249	10	10	100	Pass
2.5480	10	10	100	Pass
2.5710	10	10	100	Pass
2.5941	9	9	100	Pass
2.6171	7	7	100	Pass
2.6402	7	7	100	Pass
2.6632	6	6	100	Pass
2.6863	6	6	100	Pass
2.7093	5	5	100	Pass
2.7324	4	4	100	Pass
2.7554	3	3	100	Pass
2.7785	1	1	100	Pass
2.8015	1	1	100	Pass
2.8246	1	1	100	Pass
2.8476	1	1	100	Pass
2.8706	1	1	100	Pass
2.8937	1	1	100	Pass
2.9167	1	1	100	Pass
2.9398	1	1	100	Pass
2.9628	1	1	100	Pass
2.9859	0	0	100	Pass
3.0089	0	0	0	Pass
3.0320	0	0	0	Pass
3.0550	0	0	0	Pass
3.0781	0	0	0	Pass
3.1011	0	0	0	Pass
3.1242	0	0	0	Pass
3.1472	0	0	0	Pass
3.1703	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #10
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 10
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	174.2744	174.2744	100.0	Pass
Feb	135.4436	135.4436	100.0	Pass
Mar	118.3338	118.3338	100.0	Pass
Apr	61.9413	61.9413	100.0	Pass
May	26.5724	26.5724	100.0	Pass
Jun	15.4600	15.4600	100.0	Pass
Jul	6.3123	6.3123	100.0	Pass
Aug	8.1591	8.1591	100.0	Pass
Sep	21.7318	21.7318	100.0	Pass
Oct	68.0421	68.0421	100.0	Pass
Nov	147.7803	147.7803	100.0	Pass
Dec	164.2797	164.2797	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	5.6638	5.6638	100.0	Pass
2	4.6107	4.6107	100.0	Pass
3	5.3530	5.3530	100.0	Pass
4	6.0392	6.0392	100.0	Pass
5	5.0387	5.0387	100.0	Pass
6	6.4457	6.4457	100.0	Pass
7	5.7577	5.7577	100.0	Pass
8	5.5386	5.5386	100.0	Pass
9	5.6133	5.6133	100.0	Pass
10	5.8447	5.8447	100.0	Pass
11	6.7932	6.7932	100.0	Pass
12	6.1166	6.1166	100.0	Pass
13	6.8118	6.8118	100.0	Pass
14	7.0633	7.0633	100.0	Pass
15	6.6184	6.6184	100.0	Pass
16	5.8496	5.8496	100.0	Pass
17	5.4794	5.4794	100.0	Pass
18	4.7820	4.7820	100.0	Pass
19	4.4989	4.4989	100.0	Pass
20	3.2538	3.2538	100.0	Pass
21	4.4903	4.4903	100.0	Pass
22	6.3847	6.3847	100.0	Pass
23	7.4089	7.4089	100.0	Pass
24	6.0004	6.0004	100.0	Pass
25	4.8162	4.8162	100.0	Pass
26	4.2943	4.2943	100.0	Pass
27	4.7282	4.7282	100.0	Pass
28	6.0226	6.0226	100.0	Pass
29	5.2965	5.2965	100.0	Pass
30	5.4719	5.4719	100.0	Pass
31	3.9959	3.9959	100.0	Pass

Feb1	3.9859	3.9859	100.0	Pass
2	3.5472	3.5472	100.0	Pass
3	3.3026	3.3026	100.0	Pass
4	3.0781	3.0781	100.0	Pass
5	4.8230	4.8230	100.0	Pass
6	3.4982	3.4982	100.0	Pass
7	3.8452	3.8452	100.0	Pass
8	3.1500	3.1500	100.0	Pass
9	3.3615	3.3615	100.0	Pass
10	4.4582	4.4582	100.0	Pass
11	6.2739	6.2739	100.0	Pass
12	5.4786	5.4786	100.0	Pass
13	5.3686	5.3686	100.0	Pass
14	6.9767	6.9767	100.0	Pass
15	6.2086	6.2086	100.0	Pass
16	7.0558	7.0558	100.0	Pass
17	6.6349	6.6349	100.0	Pass
18	5.9022	5.9022	100.0	Pass
19	4.7829	4.7829	100.0	Pass
20	4.6093	4.6093	100.0	Pass
21	3.6542	3.6542	100.0	Pass
22	4.8650	4.8650	100.0	Pass
23	4.9987	4.9987	100.0	Pass
24	5.4516	5.4516	100.0	Pass
25	4.9928	4.9928	100.0	Pass
26	5.1850	5.1850	100.0	Pass
27	4.5148	4.5148	100.0	Pass
28	5.6125	5.6125	100.0	Pass
29	4.0930	4.0930	100.0	Pass
Mar1	3.9078	3.9078	100.0	Pass
2	3.3779	3.3779	100.0	Pass
3	4.2121	4.2121	100.0	Pass
4	4.7530	4.7530	100.0	Pass
5	3.8154	3.8154	100.0	Pass
6	4.8113	4.8113	100.0	Pass
7	4.4332	4.4332	100.0	Pass
8	4.5481	4.5481	100.0	Pass
9	4.5274	4.5274	100.0	Pass
10	4.1479	4.1479	100.0	Pass
11	4.3056	4.3056	100.0	Pass
12	3.7927	3.7927	100.0	Pass
13	4.4822	4.4822	100.0	Pass
14	3.7740	3.7740	100.0	Pass
15	3.0529	3.0529	100.0	Pass
16	2.7951	2.7951	100.0	Pass
17	3.7630	3.7630	100.0	Pass
18	2.6166	2.6166	100.0	Pass
19	3.2499	3.2499	100.0	Pass
20	2.8236	2.8236	100.0	Pass
21	4.2537	4.2537	100.0	Pass
22	5.0469	5.0469	100.0	Pass
23	4.7622	4.7622	100.0	Pass
24	3.3795	3.3795	100.0	Pass
25	4.1037	4.1037	100.0	Pass
26	3.4917	3.4917	100.0	Pass
27	2.9476	2.9476	100.0	Pass
28	3.4531	3.4531	100.0	Pass

29	3.1146	3.1146	100.0	Pass
30	2.5084	2.5084	100.0	Pass
31	1.9443	1.9443	100.0	Pass
Apr1	1.9389	1.9389	100.0	Pass
2	2.0979	2.0979	100.0	Pass
3	2.6103	2.6103	100.0	Pass
4	2.7473	2.7473	100.0	Pass
5	3.1023	3.1023	100.0	Pass
6	1.8714	1.8714	100.0	Pass
7	2.4005	2.4005	100.0	Pass
8	2.6850	2.6850	100.0	Pass
9	2.2544	2.2544	100.0	Pass
10	2.3995	2.3995	100.0	Pass
11	2.7489	2.7489	100.0	Pass
12	2.8184	2.8184	100.0	Pass
13	2.6969	2.6969	100.0	Pass
14	2.5496	2.5496	100.0	Pass
15	2.6311	2.6311	100.0	Pass
16	1.6934	1.6934	100.0	Pass
17	1.8420	1.8420	100.0	Pass
18	2.1100	2.1100	100.0	Pass
19	1.4633	1.4633	100.0	Pass
20	1.1597	1.1597	100.0	Pass
21	1.7264	1.7264	100.0	Pass
22	1.5249	1.5249	100.0	Pass
23	1.4380	1.4380	100.0	Pass
24	1.1557	1.1557	100.0	Pass
25	1.2430	1.2430	100.0	Pass
26	2.0948	2.0948	100.0	Pass
27	1.9492	1.9492	100.0	Pass
28	1.9534	1.9534	100.0	Pass
29	1.0975	1.0975	100.0	Pass
30	1.0390	1.0390	100.0	Pass
May1	1.5024	1.5024	100.0	Pass
2	1.3504	1.3504	100.0	Pass
3	1.2681	1.2681	100.0	Pass
4	1.1236	1.1236	100.0	Pass
5	1.0144	1.0144	100.0	Pass
6	0.8386	0.8386	100.0	Pass
7	1.0313	1.0313	100.0	Pass
8	0.7470	0.7470	100.0	Pass
9	0.8543	0.8543	100.0	Pass
10	0.6676	0.6676	100.0	Pass
11	0.6244	0.6244	100.0	Pass
12	0.9729	0.9729	100.0	Pass
13	0.9941	0.9941	100.0	Pass
14	0.9343	0.9343	100.0	Pass
15	0.7731	0.7731	100.0	Pass
16	0.7988	0.7988	100.0	Pass
17	0.6992	0.6992	100.0	Pass
18	0.9852	0.9852	100.0	Pass
19	0.6762	0.6762	100.0	Pass
20	0.5282	0.5282	100.0	Pass
21	0.5433	0.5433	100.0	Pass
22	0.6057	0.6057	100.0	Pass
23	0.6164	0.6164	100.0	Pass
24	0.6624	0.6624	100.0	Pass

25	0.5336	0.5336	100.0	Pass
26	0.8646	0.8646	100.0	Pass
27	0.7493	0.7493	100.0	Pass
28	0.7350	0.7350	100.0	Pass
29	1.0695	1.0695	100.0	Pass
30	0.7733	0.7733	100.0	Pass
31	0.8662	0.8662	100.0	Pass
Jun1	0.7163	0.7163	100.0	Pass
2	0.8197	0.8197	100.0	Pass
3	0.8261	0.8261	100.0	Pass
4	0.6643	0.6643	100.0	Pass
5	0.9298	0.9298	100.0	Pass
6	0.4783	0.4783	100.0	Pass
7	0.6706	0.6706	100.0	Pass
8	0.8624	0.8624	100.0	Pass
9	0.6705	0.6705	100.0	Pass
10	0.5672	0.5672	100.0	Pass
11	0.4229	0.4229	100.0	Pass
12	0.4579	0.4579	100.0	Pass
13	0.7618	0.7618	100.0	Pass
14	0.3997	0.3997	100.0	Pass
15	0.6566	0.6566	100.0	Pass
16	0.3762	0.3762	100.0	Pass
17	0.3965	0.3965	100.0	Pass
18	0.3268	0.3268	100.0	Pass
19	0.2891	0.2891	100.0	Pass
20	0.2935	0.2935	100.0	Pass
21	0.3609	0.3609	100.0	Pass
22	0.2220	0.2220	100.0	Pass
23	0.7926	0.7926	100.0	Pass
24	0.3787	0.3787	100.0	Pass
25	0.4070	0.4070	100.0	Pass
26	0.2375	0.2375	100.0	Pass
27	0.1891	0.1891	100.0	Pass
28	0.1867	0.1867	100.0	Pass
29	0.2355	0.2355	100.0	Pass
30	0.5335	0.5335	100.0	Pass
Jul1	0.1581	0.1581	100.0	Pass
2	0.1197	0.1197	100.0	Pass
3	0.1222	0.1222	100.0	Pass
4	0.2790	0.2790	100.0	Pass
5	0.2238	0.2238	100.0	Pass
6	0.1679	0.1679	100.0	Pass
7	0.3559	0.3559	100.0	Pass
8	0.2325	0.2325	100.0	Pass
9	0.4206	0.4206	100.0	Pass
10	0.2865	0.2865	100.0	Pass
11	0.6780	0.6780	100.0	Pass
12	0.5308	0.5308	100.0	Pass
13	0.3169	0.3169	100.0	Pass
14	0.3338	0.3338	100.0	Pass
15	0.1390	0.1390	100.0	Pass
16	0.0839	0.0839	100.0	Pass
17	0.2748	0.2748	100.0	Pass
18	0.1299	0.1299	100.0	Pass
19	0.1241	0.1241	100.0	Pass
20	0.1872	0.1872	100.0	Pass

21	0.1524	0.1524	100.0	Pass
22	0.0215	0.0215	100.0	Pass
23	0.0433	0.0433	100.0	Pass
24	0.0467	0.0467	100.0	Pass
25	0.1003	0.1003	100.0	Pass
26	0.0418	0.0418	100.0	Pass
27	0.0630	0.0630	100.0	Pass
28	0.0530	0.0530	100.0	Pass
29	0.0348	0.0348	100.0	Pass
30	0.0580	0.0580	100.0	Pass
31	0.0680	0.0680	100.0	Pass
Aug1	0.2777	0.2777	100.0	Pass
2	0.1053	0.1053	100.0	Pass
3	0.0441	0.0441	100.0	Pass
4	0.0407	0.0407	100.0	Pass
5	0.3192	0.3192	100.0	Pass
6	0.2218	0.2218	100.0	Pass
7	0.0865	0.0865	100.0	Pass
8	0.0819	0.0819	100.0	Pass
9	0.0086	0.0086	100.0	Pass
10	0.0419	0.0419	100.0	Pass
11	0.2007	0.2007	100.0	Pass
12	0.1738	0.1738	100.0	Pass
13	0.2211	0.2211	100.0	Pass
14	0.1450	0.1450	100.0	Pass
15	0.1371	0.1371	100.0	Pass
16	0.1112	0.1112	100.0	Pass
17	0.2009	0.2009	100.0	Pass
18	0.3906	0.3906	100.0	Pass
19	0.1391	0.1391	100.0	Pass
20	0.3085	0.3085	100.0	Pass
21	0.2897	0.2897	100.0	Pass
22	0.5542	0.5542	100.0	Pass
23	0.5375	0.5375	100.0	Pass
24	0.5014	0.5014	100.0	Pass
25	0.2234	0.2234	100.0	Pass
26	0.5492	0.5492	100.0	Pass
27	0.5812	0.5812	100.0	Pass
28	0.6140	0.6140	100.0	Pass
29	0.4079	0.4079	100.0	Pass
30	0.5776	0.5776	100.0	Pass
31	0.9238	0.9238	100.0	Pass
Sep1	0.4628	0.4628	100.0	Pass
2	0.4230	0.4230	100.0	Pass
3	0.4356	0.4356	100.0	Pass
4	0.5029	0.5029	100.0	Pass
5	0.4310	0.4310	100.0	Pass
6	0.3019	0.3019	100.0	Pass
7	0.5584	0.5584	100.0	Pass
8	0.4181	0.4181	100.0	Pass
9	0.9156	0.9156	100.0	Pass
10	0.2542	0.2542	100.0	Pass
11	0.1954	0.1954	100.0	Pass
12	0.4876	0.4876	100.0	Pass
13	0.9529	0.9529	100.0	Pass
14	0.6687	0.6687	100.0	Pass
15	0.9243	0.9243	100.0	Pass

16	1.2322	1.2322	100.0	Pass
17	1.2164	1.2164	100.0	Pass
18	1.0427	1.0427	100.0	Pass
19	1.1934	1.1934	100.0	Pass
20	0.9125	0.9125	100.0	Pass
21	1.3685	1.3685	100.0	Pass
22	1.1883	1.1883	100.0	Pass
23	0.8238	0.8238	100.0	Pass
24	0.5665	0.5665	100.0	Pass
25	0.5348	0.5348	100.0	Pass
26	0.5412	0.5412	100.0	Pass
27	0.7806	0.7806	100.0	Pass
28	0.6463	0.6463	100.0	Pass
29	0.8314	0.8314	100.0	Pass
30	0.6259	0.6259	100.0	Pass
Oct1	0.4714	0.4714	100.0	Pass
2	1.0311	1.0311	100.0	Pass
3	0.9973	0.9973	100.0	Pass
4	1.3078	1.3078	100.0	Pass
5	1.5128	1.5128	100.0	Pass
6	1.5238	1.5238	100.0	Pass
7	2.0237	2.0237	100.0	Pass
8	1.7952	1.7952	100.0	Pass
9	1.3982	1.3982	100.0	Pass
10	1.2076	1.2076	100.0	Pass
11	1.8796	1.8796	100.0	Pass
12	1.4313	1.4313	100.0	Pass
13	1.7114	1.7114	100.0	Pass
14	1.2223	1.2223	100.0	Pass
15	1.2453	1.2453	100.0	Pass
16	1.9291	1.9291	100.0	Pass
17	1.7525	1.7525	100.0	Pass
18	2.7002	2.7002	100.0	Pass
19	3.6653	3.6653	100.0	Pass
20	3.1866	3.1866	100.0	Pass
21	3.8096	3.8096	100.0	Pass
22	2.4757	2.4757	100.0	Pass
23	3.7851	3.7851	100.0	Pass
24	3.5357	3.5357	100.0	Pass
25	3.1618	3.1618	100.0	Pass
26	3.7325	3.7325	100.0	Pass
27	3.4412	3.4412	100.0	Pass
28	3.2145	3.2145	100.0	Pass
29	2.7864	2.7864	100.0	Pass
30	3.4901	3.4901	100.0	Pass
31	3.4567	3.4567	100.0	Pass
Nov1	4.2766	4.2766	100.0	Pass
2	4.8775	4.8775	100.0	Pass
3	4.3551	4.3551	100.0	Pass
4	3.8709	3.8709	100.0	Pass
5	4.4205	4.4205	100.0	Pass
6	4.0328	4.0328	100.0	Pass
7	3.5556	3.5556	100.0	Pass
8	4.2559	4.2559	100.0	Pass
9	5.2723	5.2723	100.0	Pass
10	4.6908	4.6908	100.0	Pass
11	5.0787	5.0787	100.0	Pass

12	4.6879	4.6879	100.0	Pass
13	4.0863	4.0863	100.0	Pass
14	4.2090	4.2090	100.0	Pass
15	4.5825	4.5825	100.0	Pass
16	4.9566	4.9566	100.0	Pass
17	4.7150	4.7150	100.0	Pass
18	6.4899	6.4899	100.0	Pass
19	6.4332	6.4332	100.0	Pass
20	4.6050	4.6050	100.0	Pass
21	6.1127	6.1127	100.0	Pass
22	7.2482	7.2482	100.0	Pass
23	6.4310	6.4310	100.0	Pass
24	6.8083	6.8083	100.0	Pass
25	5.2795	5.2795	100.0	Pass
26	4.1203	4.1203	100.0	Pass
27	4.2243	4.2243	100.0	Pass
28	4.2125	4.2125	100.0	Pass
29	6.4430	6.4430	100.0	Pass
30	6.0545	6.0545	100.0	Pass
Decl1	6.2421	6.2421	100.0	Pass
2	6.3994	6.3994	100.0	Pass
3	4.4785	4.4785	100.0	Pass
4	4.2349	4.2349	100.0	Pass
5	3.9667	3.9667	100.0	Pass
6	3.2205	3.2205	100.0	Pass
7	4.1917	4.1917	100.0	Pass
8	5.4664	5.4664	100.0	Pass
9	5.9486	5.9486	100.0	Pass
10	6.4742	6.4742	100.0	Pass
11	5.0007	5.0007	100.0	Pass
12	4.9947	4.9947	100.0	Pass
13	6.8522	6.8522	100.0	Pass
14	5.8366	5.8366	100.0	Pass
15	6.3755	6.3755	100.0	Pass
16	5.1104	5.1104	100.0	Pass
17	5.3446	5.3446	100.0	Pass
18	4.5680	4.5680	100.0	Pass
19	4.9154	4.9154	100.0	Pass
20	5.2799	5.2799	100.0	Pass
21	5.7068	5.7068	100.0	Pass
22	5.8155	5.8155	100.0	Pass
23	6.0937	6.0937	100.0	Pass
24	6.3921	6.3921	100.0	Pass
25	6.3338	6.3338	100.0	Pass
26	5.6591	5.6591	100.0	Pass
27	3.9547	3.9547	100.0	Pass
28	5.3085	5.3085	100.0	Pass
29	4.2898	4.2898	100.0	Pass
30	3.7802	3.7802	100.0	Pass
31	6.1988	6.1988	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #11
Total Pervious Area:2.245
Total Impervious Area:2.123

Mitigated Landuse Totals for POC #11
Total Pervious Area:2.245
Total Impervious Area:2.123

Flow Frequency Return Periods for Predeveloped. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.820848
5 year	2.247
10 year	2.490157
25 year	2.763838
50 year	2.948006
100 year	3.118243

Flow Frequency Return Periods for Mitigated. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.820848
5 year	2.247
10 year	2.490157
25 year	2.763838
50 year	2.948006
100 year	3.118243

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #11

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	2.056	2.056
1957	2.518	2.518
1958	1.817	1.817
1959	1.865	1.865
1960	2.010	2.010
1961	1.393	1.393
1962	2.781	2.781
1963	2.559	2.559
1964	1.950	1.950
1965	2.099	2.099
1966	2.036	2.036
1967	1.211	1.211
1968	1.910	1.910
1969	2.042	2.042
1970	1.612	1.612
1971	2.690	2.690
1972	2.429	2.429
1973	2.152	2.152
1974	2.059	2.059
1975	1.743	1.743
1976	2.175	2.175
1977	1.488	1.488
1978	2.751	2.751
1979	1.740	1.740

1980	1.504	1.504
1981	2.058	2.058
1982	2.228	2.228
1983	1.895	1.895
1984	1.670	1.670
1985	1.136	1.136
1986	2.097	2.097
1987	1.432	1.432
1988	2.100	2.100
1989	1.741	1.741
1990	2.488	2.488
1991	1.630	1.630
1992	1.116	1.116
1993	1.197	1.197
1994	1.689	1.689
1995	1.397	1.397
1996	1.790	1.790
1997	1.867	1.867
1998	1.167	1.167
1999	1.555	1.555
2000	1.431	1.431
2001	1.201	1.201
2002	1.788	1.788
2003	2.663	2.663
2004	2.320	2.320
2005	1.740	1.740
2006	1.941	1.941
2007	2.255	2.255
2008	1.076	1.076
2009	0.986	0.986

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	2.7806	2.7806
2	2.7506	2.7506
3	2.6895	2.6895
4	2.6630	2.6630
5	2.5589	2.5589
6	2.5180	2.5180
7	2.4877	2.4877
8	2.4289	2.4289
9	2.3199	2.3199
10	2.2553	2.2553
11	2.2283	2.2283
12	2.1750	2.1750
13	2.1518	2.1518
14	2.1003	2.1003
15	2.0995	2.0995
16	2.0970	2.0970
17	2.0593	2.0593
18	2.0581	2.0581
19	2.0561	2.0561
20	2.0417	2.0417
21	2.0358	2.0358
22	2.0097	2.0097

23	1.9496	1.9496
24	1.9405	1.9405
25	1.9096	1.9096
26	1.8947	1.8947
27	1.8666	1.8666
28	1.8648	1.8648
29	1.8173	1.8173
30	1.7899	1.7899
31	1.7878	1.7878
32	1.7427	1.7427
33	1.7411	1.7411
34	1.7399	1.7399
35	1.7396	1.7396
36	1.6891	1.6891
37	1.6701	1.6701
38	1.6302	1.6302
39	1.6117	1.6117
40	1.5551	1.5551
41	1.5043	1.5043
42	1.4879	1.4879
43	1.4322	1.4322
44	1.4312	1.4312
45	1.3967	1.3967
46	1.3935	1.3935
47	1.2109	1.2109
48	1.2006	1.2006
49	1.1967	1.1967
50	1.1670	1.1670
51	1.1358	1.1358
52	1.1155	1.1155
53	1.0763	1.0763
54	0.9859	0.9859

Stream Protection Duration

POC #11

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.9104	963	963	100	Pass
0.9310	879	879	100	Pass
0.9516	808	808	100	Pass
0.9722	743	743	100	Pass
0.9928	692	692	100	Pass
1.0133	631	631	100	Pass
1.0339	595	595	100	Pass
1.0545	551	551	100	Pass
1.0751	503	503	100	Pass
1.0957	465	465	100	Pass
1.1162	428	428	100	Pass
1.1368	394	394	100	Pass
1.1574	370	370	100	Pass
1.1780	353	353	100	Pass
1.1986	320	320	100	Pass
1.2191	294	294	100	Pass

1.2397	268	268	100	Pass
1.2603	246	246	100	Pass
1.2809	235	235	100	Pass
1.3015	219	219	100	Pass
1.3221	204	204	100	Pass
1.3426	190	190	100	Pass
1.3632	184	184	100	Pass
1.3838	177	177	100	Pass
1.4044	166	166	100	Pass
1.4250	152	152	100	Pass
1.4455	144	144	100	Pass
1.4661	138	138	100	Pass
1.4867	134	134	100	Pass
1.5073	121	121	100	Pass
1.5279	111	111	100	Pass
1.5485	108	108	100	Pass
1.5690	100	100	100	Pass
1.5896	96	96	100	Pass
1.6102	92	92	100	Pass
1.6308	87	87	100	Pass
1.6514	85	85	100	Pass
1.6719	82	82	100	Pass
1.6925	78	78	100	Pass
1.7131	77	77	100	Pass
1.7337	75	75	100	Pass
1.7543	66	66	100	Pass
1.7749	62	62	100	Pass
1.7954	57	57	100	Pass
1.8160	55	55	100	Pass
1.8366	53	53	100	Pass
1.8572	50	50	100	Pass
1.8778	46	46	100	Pass
1.8983	45	45	100	Pass
1.9189	44	44	100	Pass
1.9395	44	44	100	Pass
1.9601	41	41	100	Pass
1.9807	40	40	100	Pass
2.0013	37	37	100	Pass
2.0218	34	34	100	Pass
2.0424	31	31	100	Pass
2.0630	27	27	100	Pass
2.0836	27	27	100	Pass
2.1042	22	22	100	Pass
2.1247	20	20	100	Pass
2.1453	20	20	100	Pass
2.1659	18	18	100	Pass
2.1865	17	17	100	Pass
2.2071	16	16	100	Pass
2.2276	15	15	100	Pass
2.2482	14	14	100	Pass
2.2688	11	11	100	Pass
2.2894	11	11	100	Pass
2.3100	11	11	100	Pass
2.3306	10	10	100	Pass
2.3511	10	10	100	Pass
2.3717	10	10	100	Pass
2.3923	10	10	100	Pass

2.4129	10	10	100	Pass
2.4335	9	9	100	Pass
2.4540	9	9	100	Pass
2.4746	9	9	100	Pass
2.4952	8	8	100	Pass
2.5158	8	8	100	Pass
2.5364	7	7	100	Pass
2.5570	6	6	100	Pass
2.5775	5	5	100	Pass
2.5981	5	5	100	Pass
2.6187	4	4	100	Pass
2.6393	4	4	100	Pass
2.6599	4	4	100	Pass
2.6804	3	3	100	Pass
2.7010	2	2	100	Pass
2.7216	2	2	100	Pass
2.7422	2	2	100	Pass
2.7628	1	1	100	Pass
2.7834	0	0	100	Pass
2.8039	0	0	0	Pass
2.8245	0	0	0	Pass
2.8451	0	0	0	Pass
2.8657	0	0	0	Pass
2.8863	0	0	0	Pass
2.9068	0	0	0	Pass
2.9274	0	0	0	Pass
2.9480	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #11
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 11
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	145.6193	145.6193	100.0	Pass
Feb	112.3977	112.3977	100.0	Pass
Mar	98.7782	98.7782	100.0	Pass
Apr	53.1595	53.1595	100.0	Pass
May	25.3754	25.3754	100.0	Pass
Jun	15.8141	15.8141	100.0	Pass
Jul	7.1950	7.1950	100.0	Pass
Aug	10.1751	10.1751	100.0	Pass
Sep	24.6477	24.6477	100.0	Pass
Oct	67.4157	67.4157	100.0	Pass
Nov	129.8673	129.8673	100.0	Pass
Dec	138.6282	138.6282	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	4.7090	4.7090	100.0	Pass

2	3.7660	3.7660	100.0	Pass
3	4.5683	4.5683	100.0	Pass
4	5.2586	5.2586	100.0	Pass
5	4.1077	4.1077	100.0	Pass
6	5.6755	5.6755	100.0	Pass
7	4.7329	4.7329	100.0	Pass
8	4.6439	4.6439	100.0	Pass
9	4.8249	4.8249	100.0	Pass
10	4.8634	4.8634	100.0	Pass
11	5.7931	5.7931	100.0	Pass
12	4.9047	4.9047	100.0	Pass
13	5.7746	5.7746	100.0	Pass
14	5.8819	5.8819	100.0	Pass
15	5.4423	5.4423	100.0	Pass
16	4.6482	4.6482	100.0	Pass
17	4.3995	4.3995	100.0	Pass
18	3.8561	3.8561	100.0	Pass
19	3.7281	3.7281	100.0	Pass
20	2.5750	2.5750	100.0	Pass
21	4.1719	4.1719	100.0	Pass
22	5.4867	5.4867	100.0	Pass
23	6.2567	6.2567	100.0	Pass
24	4.6945	4.6945	100.0	Pass
25	3.8470	3.8470	100.0	Pass
26	3.4481	3.4481	100.0	Pass
27	4.0490	4.0490	100.0	Pass
28	5.1639	5.1639	100.0	Pass
29	4.2589	4.2589	100.0	Pass
30	4.6746	4.6746	100.0	Pass
31	3.1218	3.1218	100.0	Pass
Feb1	3.3039	3.3039	100.0	Pass
2	2.9768	2.9768	100.0	Pass
3	2.7325	2.7325	100.0	Pass
4	2.5401	2.5401	100.0	Pass
5	4.3097	4.3097	100.0	Pass
6	2.6551	2.6551	100.0	Pass
7	3.3018	3.3018	100.0	Pass
8	2.6058	2.6058	100.0	Pass
9	2.9480	2.9480	100.0	Pass
10	3.9245	3.9245	100.0	Pass
11	5.3565	5.3565	100.0	Pass
12	4.4391	4.4391	100.0	Pass
13	4.5350	4.5350	100.0	Pass
14	6.1134	6.1134	100.0	Pass
15	4.9554	4.9554	100.0	Pass
16	6.0101	6.0101	100.0	Pass
17	5.4760	5.4760	100.0	Pass
18	4.6182	4.6182	100.0	Pass
19	3.8522	3.8522	100.0	Pass
20	3.7183	3.7183	100.0	Pass
21	2.9868	2.9868	100.0	Pass
22	4.1666	4.1666	100.0	Pass
23	4.1339	4.1339	100.0	Pass
24	4.5294	4.5294	100.0	Pass
25	4.0957	4.0957	100.0	Pass
26	4.1605	4.1605	100.0	Pass
27	3.6267	3.6267	100.0	Pass

28	4.6823	4.6823	100.0	Pass
29	3.3749	3.3749	100.0	Pass
Mar1	3.2684	3.2684	100.0	Pass
2	2.7516	2.7516	100.0	Pass
3	3.6452	3.6452	100.0	Pass
4	3.9762	3.9762	100.0	Pass
5	3.1531	3.1531	100.0	Pass
6	3.9887	3.9887	100.0	Pass
7	3.7810	3.7810	100.0	Pass
8	3.7804	3.7804	100.0	Pass
9	3.7746	3.7746	100.0	Pass
10	3.3784	3.3784	100.0	Pass
11	3.5806	3.5806	100.0	Pass
12	3.1569	3.1569	100.0	Pass
13	3.7831	3.7831	100.0	Pass
14	3.0916	3.0916	100.0	Pass
15	2.5018	2.5018	100.0	Pass
16	2.3481	2.3481	100.0	Pass
17	3.1839	3.1839	100.0	Pass
18	2.0814	2.0814	100.0	Pass
19	2.8302	2.8302	100.0	Pass
20	2.3682	2.3682	100.0	Pass
21	3.7776	3.7776	100.0	Pass
22	4.3620	4.3620	100.0	Pass
23	3.8644	3.8644	100.0	Pass
24	2.6115	2.6115	100.0	Pass
25	3.5451	3.5451	100.0	Pass
26	2.8020	2.8020	100.0	Pass
27	2.5038	2.5038	100.0	Pass
28	2.8790	2.8790	100.0	Pass
29	2.6141	2.6141	100.0	Pass
30	2.0301	2.0301	100.0	Pass
31	1.5982	1.5982	100.0	Pass
Apr1	1.6520	1.6520	100.0	Pass
2	1.8250	1.8250	100.0	Pass
3	2.3906	2.3906	100.0	Pass
4	2.3371	2.3371	100.0	Pass
5	2.5795	2.5795	100.0	Pass
6	1.4675	1.4675	100.0	Pass
7	2.1367	2.1367	100.0	Pass
8	2.2730	2.2730	100.0	Pass
9	1.9549	1.9549	100.0	Pass
10	2.0104	2.0104	100.0	Pass
11	2.5225	2.5225	100.0	Pass
12	2.3670	2.3670	100.0	Pass
13	2.3585	2.3585	100.0	Pass
14	2.1201	2.1201	100.0	Pass
15	2.2263	2.2263	100.0	Pass
16	1.3291	1.3291	100.0	Pass
17	1.6250	1.6250	100.0	Pass
18	1.8697	1.8697	100.0	Pass
19	1.1462	1.1462	100.0	Pass
20	0.9969	0.9969	100.0	Pass
21	1.5946	1.5946	100.0	Pass
22	1.3626	1.3626	100.0	Pass
23	1.2360	1.2360	100.0	Pass
24	0.9924	0.9924	100.0	Pass

25	1.1353	1.1353	100.0	Pass
26	1.9116	1.9116	100.0	Pass
27	1.6259	1.6259	100.0	Pass
28	1.6597	1.6597	100.0	Pass
29	0.8613	0.8613	100.0	Pass
30	0.9675	0.9675	100.0	Pass
May1	1.4630	1.4630	100.0	Pass
2	1.1718	1.1718	100.0	Pass
3	1.1762	1.1762	100.0	Pass
4	0.9796	0.9796	100.0	Pass
5	0.9142	0.9142	100.0	Pass
6	0.7636	0.7636	100.0	Pass
7	0.9816	0.9816	100.0	Pass
8	0.6475	0.6475	100.0	Pass
9	0.8283	0.8283	100.0	Pass
10	0.6527	0.6527	100.0	Pass
11	0.6132	0.6132	100.0	Pass
12	0.9187	0.9187	100.0	Pass
13	0.9626	0.9626	100.0	Pass
14	0.9231	0.9231	100.0	Pass
15	0.6768	0.6768	100.0	Pass
16	0.7953	0.7953	100.0	Pass
17	0.6674	0.6674	100.0	Pass
18	1.0278	1.0278	100.0	Pass
19	0.6044	0.6044	100.0	Pass
20	0.5321	0.5321	100.0	Pass
21	0.5454	0.5454	100.0	Pass
22	0.6464	0.6464	100.0	Pass
23	0.6036	0.6036	100.0	Pass
24	0.6410	0.6410	100.0	Pass
25	0.5236	0.5236	100.0	Pass
26	0.8922	0.8922	100.0	Pass
27	0.7270	0.7270	100.0	Pass
28	0.7536	0.7536	100.0	Pass
29	1.0614	1.0614	100.0	Pass
30	0.7175	0.7175	100.0	Pass
31	0.7953	0.7953	100.0	Pass
Jun1	0.6231	0.6231	100.0	Pass
2	0.8778	0.8778	100.0	Pass
3	0.8527	0.8527	100.0	Pass
4	0.6396	0.6396	100.0	Pass
5	0.9966	0.9966	100.0	Pass
6	0.4229	0.4229	100.0	Pass
7	0.6333	0.6333	100.0	Pass
8	0.8596	0.8596	100.0	Pass
9	0.6527	0.6527	100.0	Pass
10	0.5898	0.5898	100.0	Pass
11	0.4299	0.4299	100.0	Pass
12	0.5029	0.5029	100.0	Pass
13	0.8197	0.8197	100.0	Pass
14	0.3681	0.3681	100.0	Pass
15	0.6846	0.6846	100.0	Pass
16	0.3338	0.3338	100.0	Pass
17	0.4170	0.4170	100.0	Pass
18	0.3049	0.3049	100.0	Pass
19	0.3234	0.3234	100.0	Pass
20	0.3447	0.3447	100.0	Pass

21	0.3753	0.3753	100.0	Pass
22	0.2133	0.2133	100.0	Pass
23	0.9633	0.9633	100.0	Pass
24	0.3228	0.3228	100.0	Pass
25	0.4466	0.4466	100.0	Pass
26	0.2626	0.2626	100.0	Pass
27	0.2272	0.2272	100.0	Pass
28	0.2311	0.2311	100.0	Pass
29	0.3014	0.3014	100.0	Pass
30	0.6635	0.6635	100.0	Pass
Jul1	0.1701	0.1701	100.0	Pass
2	0.1411	0.1411	100.0	Pass
3	0.1526	0.1526	100.0	Pass
4	0.3694	0.3694	100.0	Pass
5	0.2818	0.2818	100.0	Pass
6	0.2123	0.2123	100.0	Pass
7	0.4251	0.4251	100.0	Pass
8	0.2496	0.2496	100.0	Pass
9	0.5028	0.5028	100.0	Pass
10	0.3292	0.3292	100.0	Pass
11	0.7187	0.7187	100.0	Pass
12	0.4401	0.4401	100.0	Pass
13	0.2916	0.2916	100.0	Pass
14	0.3878	0.3878	100.0	Pass
15	0.1541	0.1541	100.0	Pass
16	0.0958	0.0958	100.0	Pass
17	0.3305	0.3305	100.0	Pass
18	0.1240	0.1240	100.0	Pass
19	0.1396	0.1396	100.0	Pass
20	0.2351	0.2351	100.0	Pass
21	0.1858	0.1858	100.0	Pass
22	0.0173	0.0173	100.0	Pass
23	0.0527	0.0527	100.0	Pass
24	0.0603	0.0603	100.0	Pass
25	0.1341	0.1341	100.0	Pass
26	0.0553	0.0553	100.0	Pass
27	0.0841	0.0841	100.0	Pass
28	0.0696	0.0696	100.0	Pass
29	0.0446	0.0446	100.0	Pass
30	0.0771	0.0771	100.0	Pass
31	0.0900	0.0900	100.0	Pass
Aug1	0.3690	0.3690	100.0	Pass
2	0.1288	0.1288	100.0	Pass
3	0.0492	0.0492	100.0	Pass
4	0.0490	0.0490	100.0	Pass
5	0.4191	0.4191	100.0	Pass
6	0.2811	0.2811	100.0	Pass
7	0.1019	0.1019	100.0	Pass
8	0.1030	0.1030	100.0	Pass
9	0.0078	0.0078	100.0	Pass
10	0.0539	0.0539	100.0	Pass
11	0.2681	0.2681	100.0	Pass
12	0.2293	0.2293	100.0	Pass
13	0.2895	0.2895	100.0	Pass
14	0.1793	0.1793	100.0	Pass
15	0.1627	0.1627	100.0	Pass
16	0.1375	0.1375	100.0	Pass

17	0.2655	0.2655	100.0	Pass
18	0.5149	0.5149	100.0	Pass
19	0.1523	0.1523	100.0	Pass
20	0.4006	0.4006	100.0	Pass
21	0.3685	0.3685	100.0	Pass
22	0.7157	0.7157	100.0	Pass
23	0.6742	0.6742	100.0	Pass
24	0.5915	0.5915	100.0	Pass
25	0.2424	0.2424	100.0	Pass
26	0.6956	0.6956	100.0	Pass
27	0.7154	0.7154	100.0	Pass
28	0.7283	0.7283	100.0	Pass
29	0.4661	0.4661	100.0	Pass
30	0.7256	0.7256	100.0	Pass
31	1.1519	1.1519	100.0	Pass
Sep1	0.4802	0.4802	100.0	Pass
2	0.4744	0.4744	100.0	Pass
3	0.5069	0.5069	100.0	Pass
4	0.6207	0.6207	100.0	Pass
5	0.5297	0.5297	100.0	Pass
6	0.3635	0.3635	100.0	Pass
7	0.7078	0.7078	100.0	Pass
8	0.4741	0.4741	100.0	Pass
9	1.1553	1.1553	100.0	Pass
10	0.2809	0.2809	100.0	Pass
11	0.2312	0.2312	100.0	Pass
12	0.6116	0.6116	100.0	Pass
13	1.1648	1.1648	100.0	Pass
14	0.7619	0.7619	100.0	Pass
15	1.1195	1.1195	100.0	Pass
16	1.2991	1.2991	100.0	Pass
17	1.3605	1.3605	100.0	Pass
18	1.1977	1.1977	100.0	Pass
19	1.3139	1.3139	100.0	Pass
20	0.9689	0.9689	100.0	Pass
21	1.4001	1.4001	100.0	Pass
22	1.1636	1.1636	100.0	Pass
23	0.8635	0.8635	100.0	Pass
24	0.6074	0.6074	100.0	Pass
25	0.6191	0.6191	100.0	Pass
26	0.6261	0.6261	100.0	Pass
27	0.8731	0.8731	100.0	Pass
28	0.7448	0.7448	100.0	Pass
29	0.9792	0.9792	100.0	Pass
30	0.7120	0.7120	100.0	Pass
Oct1	0.5116	0.5116	100.0	Pass
2	1.2479	1.2479	100.0	Pass
3	1.1452	1.1452	100.0	Pass
4	1.4387	1.4387	100.0	Pass
5	1.5858	1.5858	100.0	Pass
6	1.6833	1.6833	100.0	Pass
7	2.1868	2.1868	100.0	Pass
8	1.8390	1.8390	100.0	Pass
9	1.4241	1.4241	100.0	Pass
10	1.1934	1.1934	100.0	Pass
11	2.0988	2.0988	100.0	Pass
12	1.4754	1.4754	100.0	Pass

13	1.9391	1.9391	100.0	Pass
14	1.2033	1.2033	100.0	Pass
15	1.3392	1.3392	100.0	Pass
16	1.9314	1.9314	100.0	Pass
17	1.7555	1.7555	100.0	Pass
18	2.7724	2.7724	100.0	Pass
19	3.5710	3.5710	100.0	Pass
20	3.0869	3.0869	100.0	Pass
21	3.7131	3.7131	100.0	Pass
22	2.2662	2.2662	100.0	Pass
23	3.6499	3.6499	100.0	Pass
24	3.2932	3.2932	100.0	Pass
25	2.9391	2.9391	100.0	Pass
26	3.5285	3.5285	100.0	Pass
27	3.1109	3.1109	100.0	Pass
28	2.9026	2.9026	100.0	Pass
29	2.4792	2.4792	100.0	Pass
30	3.4007	3.4007	100.0	Pass
31	3.0942	3.0942	100.0	Pass
Nov1	3.8749	3.8749	100.0	Pass
2	4.5653	4.5653	100.0	Pass
3	3.7808	3.7808	100.0	Pass
4	3.5880	3.5880	100.0	Pass
5	4.0369	4.0369	100.0	Pass
6	3.5185	3.5185	100.0	Pass
7	3.1423	3.1423	100.0	Pass
8	3.9275	3.9275	100.0	Pass
9	4.7550	4.7550	100.0	Pass
10	4.1386	4.1386	100.0	Pass
11	4.5572	4.5572	100.0	Pass
12	4.2085	4.2085	100.0	Pass
13	3.3977	3.3977	100.0	Pass
14	3.7351	3.7351	100.0	Pass
15	4.1319	4.1319	100.0	Pass
16	4.3991	4.3991	100.0	Pass
17	4.0969	4.0969	100.0	Pass
18	5.8440	5.8440	100.0	Pass
19	5.5007	5.5007	100.0	Pass
20	3.7734	3.7734	100.0	Pass
21	5.4621	5.4621	100.0	Pass
22	6.4860	6.4860	100.0	Pass
23	5.3273	5.3273	100.0	Pass
24	5.8555	5.8555	100.0	Pass
25	4.1990	4.1990	100.0	Pass
26	3.3303	3.3303	100.0	Pass
27	3.7148	3.7148	100.0	Pass
28	3.6299	3.6299	100.0	Pass
29	5.8033	5.8033	100.0	Pass
30	5.0279	5.0279	100.0	Pass
Dec1	5.3553	5.3553	100.0	Pass
2	5.3416	5.3416	100.0	Pass
3	3.5745	3.5745	100.0	Pass
4	3.6453	3.6453	100.0	Pass
5	3.2755	3.2755	100.0	Pass
6	2.7427	2.7427	100.0	Pass
7	3.7722	3.7722	100.0	Pass
8	4.8382	4.8382	100.0	Pass

9	5.0306	5.0306	100.0	Pass
10	5.4497	5.4497	100.0	Pass
11	4.0875	4.0875	100.0	Pass
12	4.2427	4.2427	100.0	Pass
13	6.0806	6.0806	100.0	Pass
14	4.6807	4.6807	100.0	Pass
15	5.5733	5.5733	100.0	Pass
16	4.0991	4.0991	100.0	Pass
17	4.5713	4.5713	100.0	Pass
18	3.8269	3.8269	100.0	Pass
19	4.3089	4.3089	100.0	Pass
20	4.4288	4.4288	100.0	Pass
21	4.8243	4.8243	100.0	Pass
22	4.8480	4.8480	100.0	Pass
23	5.1649	5.1649	100.0	Pass
24	5.5613	5.5613	100.0	Pass
25	5.1695	5.1695	100.0	Pass
26	4.6524	4.6524	100.0	Pass
27	3.1804	3.1804	100.0	Pass
28	4.6435	4.6435	100.0	Pass
29	3.4007	3.4007	100.0	Pass
30	3.2376	3.2376	100.0	Pass
31	5.4239	5.4239	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #12
Total Pervious Area:0.055
Total Impervious Area:0.418

Mitigated Landuse Totals for POC #12
Total Pervious Area:0.055
Total Impervious Area:0.418

Flow Frequency Return Periods for Predeveloped. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.293033
5 year	0.348024
10 year	0.377772
25 year	0.409931
50 year	0.430819
100 year	0.449607

Flow Frequency Return Periods for Mitigated. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.293033
5 year	0.348024
10 year	0.377772
25 year	0.409931
50 year	0.430819

100 year

0.449607

**Stream Protection Duration
Annual Peaks for Predeveloped and Mitigated. POC #12**

Year	Predeveloped	Mitigated
1956	0.309	0.309
1957	0.381	0.381
1958	0.292	0.292
1959	0.297	0.297
1960	0.308	0.308
1961	0.249	0.249
1962	0.404	0.404
1963	0.369	0.369
1964	0.321	0.321
1965	0.319	0.319
1966	0.313	0.313
1967	0.201	0.201
1968	0.300	0.300
1969	0.286	0.286
1970	0.271	0.271
1971	0.414	0.414
1972	0.350	0.350
1973	0.324	0.324
1974	0.313	0.313
1975	0.279	0.279
1976	0.340	0.340
1977	0.247	0.247
1978	0.425	0.425
1979	0.268	0.268
1980	0.248	0.248
1981	0.314	0.314
1982	0.363	0.363
1983	0.286	0.286
1984	0.269	0.269
1985	0.204	0.204
1986	0.321	0.321
1987	0.225	0.225
1988	0.342	0.342
1989	0.285	0.285
1990	0.372	0.372
1991	0.245	0.245
1992	0.191	0.191
1993	0.212	0.212
1994	0.275	0.275
1995	0.267	0.267
1996	0.326	0.326
1997	0.318	0.318
1998	0.200	0.200
1999	0.250	0.250
2000	0.228	0.228
2001	0.222	0.222
2002	0.348	0.348
2003	0.397	0.397
2004	0.369	0.369
2005	0.292	0.292
2006	0.297	0.297

2007	0.349	0.349
2008	0.183	0.183
2009	0.174	0.174

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #12

Rank	Predeveloped	Mitigated
1	0.4254	0.4254
2	0.4143	0.4143
3	0.4043	0.4043
4	0.3966	0.3966
5	0.3805	0.3805
6	0.3720	0.3720
7	0.3691	0.3691
8	0.3691	0.3691
9	0.3634	0.3634
10	0.3497	0.3497
11	0.3492	0.3492
12	0.3478	0.3478
13	0.3423	0.3423
14	0.3400	0.3400
15	0.3256	0.3256
16	0.3238	0.3238
17	0.3214	0.3214
18	0.3212	0.3212
19	0.3186	0.3186
20	0.3181	0.3181
21	0.3144	0.3144
22	0.3132	0.3132
23	0.3130	0.3130
24	0.3088	0.3088
25	0.3081	0.3081
26	0.3003	0.3003
27	0.2970	0.2970
28	0.2969	0.2969
29	0.2924	0.2924
30	0.2917	0.2917
31	0.2863	0.2863
32	0.2857	0.2857
33	0.2849	0.2849
34	0.2786	0.2786
35	0.2748	0.2748
36	0.2708	0.2708
37	0.2686	0.2686
38	0.2684	0.2684
39	0.2671	0.2671
40	0.2505	0.2505
41	0.2489	0.2489
42	0.2480	0.2480
43	0.2467	0.2467
44	0.2447	0.2447
45	0.2278	0.2278
46	0.2249	0.2249
47	0.2222	0.2222
48	0.2121	0.2121
49	0.2038	0.2038

50	0.2007	0.2007
51	0.2000	0.2000
52	0.1909	0.1909
53	0.1833	0.1833
54	0.1740	0.1740

Stream Protection Duration

POC #12

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1465	1137	1137	100	Pass
0.1494	1061	1061	100	Pass
0.1523	984	984	100	Pass
0.1551	914	914	100	Pass
0.1580	851	851	100	Pass
0.1609	805	805	100	Pass
0.1637	738	738	100	Pass
0.1666	689	689	100	Pass
0.1695	629	629	100	Pass
0.1724	579	579	100	Pass
0.1752	539	539	100	Pass
0.1781	500	500	100	Pass
0.1810	479	479	100	Pass
0.1838	444	444	100	Pass
0.1867	409	409	100	Pass
0.1896	384	384	100	Pass
0.1925	352	352	100	Pass
0.1953	331	331	100	Pass
0.1982	313	313	100	Pass
0.2011	288	288	100	Pass
0.2040	279	279	100	Pass
0.2068	258	258	100	Pass
0.2097	248	248	100	Pass
0.2126	237	237	100	Pass
0.2154	219	219	100	Pass
0.2183	203	203	100	Pass
0.2212	192	192	100	Pass
0.2241	182	182	100	Pass
0.2269	175	175	100	Pass
0.2298	167	167	100	Pass
0.2327	159	159	100	Pass
0.2355	152	152	100	Pass
0.2384	144	144	100	Pass
0.2413	140	140	100	Pass
0.2442	128	128	100	Pass
0.2470	115	115	100	Pass
0.2499	111	111	100	Pass
0.2528	103	103	100	Pass
0.2556	98	98	100	Pass
0.2585	96	96	100	Pass
0.2614	91	91	100	Pass
0.2643	87	87	100	Pass
0.2671	83	83	100	Pass

0.2700	76	76	100	Pass
0.2729	75	75	100	Pass
0.2757	71	71	100	Pass
0.2786	68	68	100	Pass
0.2815	65	65	100	Pass
0.2844	61	61	100	Pass
0.2872	55	55	100	Pass
0.2901	53	53	100	Pass
0.2930	50	50	100	Pass
0.2958	47	47	100	Pass
0.2987	43	43	100	Pass
0.3016	42	42	100	Pass
0.3045	41	41	100	Pass
0.3073	40	40	100	Pass
0.3102	37	37	100	Pass
0.3131	35	35	100	Pass
0.3159	32	32	100	Pass
0.3188	32	32	100	Pass
0.3217	30	30	100	Pass
0.3246	26	26	100	Pass
0.3274	23	23	100	Pass
0.3303	23	23	100	Pass
0.3332	23	23	100	Pass
0.3361	23	23	100	Pass
0.3389	23	23	100	Pass
0.3418	19	19	100	Pass
0.3447	17	17	100	Pass
0.3475	16	16	100	Pass
0.3504	13	13	100	Pass
0.3533	12	12	100	Pass
0.3562	12	12	100	Pass
0.3590	11	11	100	Pass
0.3619	11	11	100	Pass
0.3648	10	10	100	Pass
0.3676	10	10	100	Pass
0.3705	8	8	100	Pass
0.3734	7	7	100	Pass
0.3763	7	7	100	Pass
0.3791	6	6	100	Pass
0.3820	5	5	100	Pass
0.3849	5	5	100	Pass
0.3877	5	5	100	Pass
0.3906	4	4	100	Pass
0.3935	4	4	100	Pass
0.3964	4	4	100	Pass
0.3992	3	3	100	Pass
0.4021	3	3	100	Pass
0.4050	3	3	100	Pass
0.4078	2	2	100	Pass
0.4107	2	2	100	Pass
0.4136	2	2	100	Pass
0.4165	1	1	100	Pass
0.4193	1	1	100	Pass
0.4222	1	1	100	Pass
0.4251	1	1	100	Pass
0.4279	0	0	100	Pass
0.4308	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #12

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 12

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	18.3831	18.3831	100.0	Pass
Feb	14.0481	14.0481	100.0	Pass
Mar	12.4514	12.4514	100.0	Pass
Apr	6.9652	6.9652	100.0	Pass
May	3.7783	3.7783	100.0	Pass
Jun	2.5209	2.5209	100.0	Pass
Jul	1.2557	1.2557	100.0	Pass
Aug	1.8913	1.8913	100.0	Pass
Sep	4.2766	4.2766	100.0	Pass
Oct	10.4000	10.4000	100.0	Pass
Nov	17.5287	17.5287	100.0	Pass
Dec	17.7350	17.7350	100.0	Pass

Day Predevel Mitigated Percent Pass/Fail

Jan1	0.5907	0.5907	100.0	Pass
2	0.4592	0.4592	100.0	Pass
3	0.5941	0.5941	100.0	Pass
4	0.7031	0.7031	100.0	Pass
5	0.4994	0.4994	100.0	Pass
6	0.7697	0.7697	100.0	Pass
7	0.5828	0.5828	100.0	Pass
8	0.5887	0.5887	100.0	Pass
9	0.6335	0.6335	100.0	Pass
10	0.6101	0.6101	100.0	Pass
11	0.7528	0.7528	100.0	Pass
12	0.5819	0.5819	100.0	Pass
13	0.7444	0.7444	100.0	Pass
14	0.7392	0.7392	100.0	Pass
15	0.6710	0.6710	100.0	Pass
16	0.5426	0.5426	100.0	Pass
17	0.5225	0.5225	100.0	Pass
18	0.4608	0.4608	100.0	Pass
19	0.4646	0.4646	100.0	Pass
20	0.2977	0.2977	100.0	Pass
21	0.6034	0.6034	100.0	Pass
22	0.7214	0.7214	100.0	Pass
23	0.8028	0.8028	100.0	Pass
24	0.5348	0.5348	100.0	Pass
25	0.4525	0.4525	100.0	Pass
26	0.4089	0.4089	100.0	Pass
27	0.5289	0.5289	100.0	Pass
28	0.6765	0.6765	100.0	Pass

29	0.5075	0.5075	100.0	Pass
30	0.6087	0.6087	100.0	Pass
31	0.3538	0.3538	100.0	Pass
Feb1	0.4117	0.4117	100.0	Pass
2	0.3778	0.3778	100.0	Pass
3	0.3396	0.3396	100.0	Pass
4	0.3145	0.3145	100.0	Pass
5	0.5957	0.5957	100.0	Pass
6	0.2863	0.2863	100.0	Pass
7	0.4331	0.4331	100.0	Pass
8	0.3236	0.3236	100.0	Pass
9	0.3974	0.3974	100.0	Pass
10	0.5325	0.5325	100.0	Pass
11	0.6984	0.6984	100.0	Pass
12	0.5353	0.5353	100.0	Pass
13	0.5816	0.5816	100.0	Pass
14	0.8246	0.8246	100.0	Pass
15	0.5833	0.5833	100.0	Pass
16	0.7802	0.7802	100.0	Pass
17	0.6788	0.6788	100.0	Pass
18	0.5255	0.5255	100.0	Pass
19	0.4589	0.4589	100.0	Pass
20	0.4447	0.4447	100.0	Pass
21	0.3641	0.3641	100.0	Pass
22	0.5447	0.5447	100.0	Pass
23	0.5146	0.5146	100.0	Pass
24	0.5678	0.5678	100.0	Pass
25	0.5031	0.5031	100.0	Pass
26	0.4944	0.4944	100.0	Pass
27	0.4312	0.4312	100.0	Pass
28	0.5893	0.5893	100.0	Pass
29	0.4175	0.4175	100.0	Pass
Mar1	0.4129	0.4129	100.0	Pass
2	0.3340	0.3340	100.0	Pass
3	0.4833	0.4833	100.0	Pass
4	0.5036	0.5036	100.0	Pass
5	0.3915	0.3915	100.0	Pass
6	0.4983	0.4983	100.0	Pass
7	0.4915	0.4915	100.0	Pass
8	0.4738	0.4738	100.0	Pass
9	0.4751	0.4751	100.0	Pass
10	0.4105	0.4105	100.0	Pass
11	0.4489	0.4489	100.0	Pass
12	0.3960	0.3960	100.0	Pass
13	0.4848	0.4848	100.0	Pass
14	0.3787	0.3787	100.0	Pass
15	0.3062	0.3062	100.0	Pass
16	0.2982	0.2982	100.0	Pass
17	0.4094	0.4094	100.0	Pass
18	0.2433	0.2433	100.0	Pass
19	0.3783	0.3783	100.0	Pass
20	0.3005	0.3005	100.0	Pass
21	0.5183	0.5183	100.0	Pass
22	0.5783	0.5783	100.0	Pass
23	0.4674	0.4674	100.0	Pass
24	0.2903	0.2903	100.0	Pass
25	0.4688	0.4688	100.0	Pass

26	0.3324	0.3324	100.0	Pass
27	0.3230	0.3230	100.0	Pass
28	0.3623	0.3623	100.0	Pass
29	0.3320	0.3320	100.0	Pass
30	0.2438	0.2438	100.0	Pass
31	0.1963	0.1963	100.0	Pass
Apr1	0.2140	0.2140	100.0	Pass
2	0.2434	0.2434	100.0	Pass
3	0.3402	0.3402	100.0	Pass
4	0.3029	0.3029	100.0	Pass
5	0.3236	0.3236	100.0	Pass
6	0.1672	0.1672	100.0	Pass
7	0.2938	0.2938	100.0	Pass
8	0.2926	0.2926	100.0	Pass
9	0.2597	0.2597	100.0	Pass
10	0.2547	0.2547	100.0	Pass
11	0.3598	0.3598	100.0	Pass
12	0.3013	0.3013	100.0	Pass
13	0.3169	0.3169	100.0	Pass
14	0.2658	0.2658	100.0	Pass
15	0.2860	0.2860	100.0	Pass
16	0.1515	0.1515	100.0	Pass
17	0.2206	0.2206	100.0	Pass
18	0.2556	0.2556	100.0	Pass
19	0.1304	0.1304	100.0	Pass
20	0.1305	0.1305	100.0	Pass
21	0.2293	0.2293	100.0	Pass
22	0.1881	0.1881	100.0	Pass
23	0.1622	0.1622	100.0	Pass
24	0.1299	0.1299	100.0	Pass
25	0.1609	0.1609	100.0	Pass
26	0.2709	0.2709	100.0	Pass
27	0.2051	0.2051	100.0	Pass
28	0.2147	0.2147	100.0	Pass
29	0.0981	0.0981	100.0	Pass
30	0.1399	0.1399	100.0	Pass
May1	0.2227	0.2227	100.0	Pass
2	0.1558	0.1558	100.0	Pass
3	0.1696	0.1696	100.0	Pass
4	0.1309	0.1309	100.0	Pass
5	0.1274	0.1274	100.0	Pass
6	0.1077	0.1077	100.0	Pass
7	0.1457	0.1457	100.0	Pass
8	0.0858	0.0858	100.0	Pass
9	0.1254	0.1254	100.0	Pass
10	0.0994	0.0994	100.0	Pass
11	0.0939	0.0939	100.0	Pass
12	0.1355	0.1355	100.0	Pass
13	0.1457	0.1457	100.0	Pass
14	0.1425	0.1425	100.0	Pass
15	0.0908	0.0908	100.0	Pass
16	0.1236	0.1236	100.0	Pass
17	0.0991	0.0991	100.0	Pass
18	0.1671	0.1671	100.0	Pass
19	0.0833	0.0833	100.0	Pass
20	0.0835	0.0835	100.0	Pass
21	0.0853	0.0853	100.0	Pass

22	0.1071	0.1071	100.0	Pass
23	0.0923	0.0923	100.0	Pass
24	0.0968	0.0968	100.0	Pass
25	0.0800	0.0800	100.0	Pass
26	0.1436	0.1436	100.0	Pass
27	0.1100	0.1100	100.0	Pass
28	0.1203	0.1203	100.0	Pass
29	0.1645	0.1645	100.0	Pass
30	0.1034	0.1034	100.0	Pass
31	0.1134	0.1134	100.0	Pass
Jun1	0.0830	0.0830	100.0	Pass
2	0.1459	0.1459	100.0	Pass
3	0.1373	0.1373	100.0	Pass
4	0.0960	0.0960	100.0	Pass
5	0.1657	0.1657	100.0	Pass
6	0.0572	0.0572	100.0	Pass
7	0.0932	0.0932	100.0	Pass
8	0.1339	0.1339	100.0	Pass
9	0.0991	0.0991	100.0	Pass
10	0.0954	0.0954	100.0	Pass
11	0.0680	0.0680	100.0	Pass
12	0.0853	0.0853	100.0	Pass
13	0.1369	0.1369	100.0	Pass
14	0.0524	0.0524	100.0	Pass
15	0.1112	0.1112	100.0	Pass
16	0.0455	0.0455	100.0	Pass
17	0.0681	0.0681	100.0	Pass
18	0.0440	0.0440	100.0	Pass
19	0.0556	0.0556	100.0	Pass
20	0.0616	0.0616	100.0	Pass
21	0.0608	0.0608	100.0	Pass
22	0.0319	0.0319	100.0	Pass
23	0.1767	0.1767	100.0	Pass
24	0.0416	0.0416	100.0	Pass
25	0.0757	0.0757	100.0	Pass
26	0.0447	0.0447	100.0	Pass
27	0.0412	0.0412	100.0	Pass
28	0.0428	0.0428	100.0	Pass
29	0.0571	0.0571	100.0	Pass
30	0.1233	0.1233	100.0	Pass
Jul1	0.0281	0.0281	100.0	Pass
2	0.0252	0.0252	100.0	Pass
3	0.0284	0.0284	100.0	Pass
4	0.0716	0.0716	100.0	Pass
5	0.0529	0.0529	100.0	Pass
6	0.0399	0.0399	100.0	Pass
7	0.0770	0.0770	100.0	Pass
8	0.0414	0.0414	100.0	Pass
9	0.0911	0.0911	100.0	Pass
10	0.0577	0.0577	100.0	Pass
11	0.1183	0.1183	100.0	Pass
12	0.0546	0.0546	100.0	Pass
13	0.0414	0.0414	100.0	Pass
14	0.0686	0.0686	100.0	Pass
15	0.0261	0.0261	100.0	Pass
16	0.0166	0.0166	100.0	Pass
17	0.0601	0.0601	100.0	Pass

18	0.0183	0.0183	100.0	Pass
19	0.0241	0.0241	100.0	Pass
20	0.0440	0.0440	100.0	Pass
21	0.0339	0.0339	100.0	Pass
22	0.0019	0.0019	100.0	Pass
23	0.0096	0.0096	100.0	Pass
24	0.0115	0.0115	100.0	Pass
25	0.0261	0.0261	100.0	Pass
26	0.0107	0.0107	100.0	Pass
27	0.0164	0.0164	100.0	Pass
28	0.0134	0.0134	100.0	Pass
29	0.0085	0.0085	100.0	Pass
30	0.0150	0.0150	100.0	Pass
31	0.0174	0.0174	100.0	Pass
Aug1	0.0717	0.0717	100.0	Pass
2	0.0236	0.0236	100.0	Pass
3	0.0083	0.0083	100.0	Pass
4	0.0088	0.0088	100.0	Pass
5	0.0807	0.0807	100.0	Pass
6	0.0528	0.0528	100.0	Pass
7	0.0181	0.0181	100.0	Pass
8	0.0193	0.0193	100.0	Pass
9	0.0010	0.0010	100.0	Pass
10	0.0102	0.0102	100.0	Pass
11	0.0522	0.0522	100.0	Pass
12	0.0443	0.0443	100.0	Pass
13	0.0557	0.0557	100.0	Pass
14	0.0331	0.0331	100.0	Pass
15	0.0291	0.0291	100.0	Pass
16	0.0254	0.0254	100.0	Pass
17	0.0514	0.0514	100.0	Pass
18	0.0996	0.0996	100.0	Pass
19	0.0256	0.0256	100.0	Pass
20	0.0767	0.0767	100.0	Pass
21	0.0694	0.0694	100.0	Pass
22	0.1363	0.1363	100.0	Pass
23	0.1257	0.1257	100.0	Pass
24	0.1051	0.1051	100.0	Pass
25	0.0400	0.0400	100.0	Pass
26	0.1307	0.1307	100.0	Pass
27	0.1317	0.1317	100.0	Pass
28	0.1305	0.1305	100.0	Pass
29	0.0812	0.0812	100.0	Pass
30	0.1357	0.1357	100.0	Pass
31	0.2141	0.2141	100.0	Pass
Sep1	0.0765	0.0765	100.0	Pass
2	0.0812	0.0812	100.0	Pass
3	0.0895	0.0895	100.0	Pass
4	0.1145	0.1145	100.0	Pass
5	0.0973	0.0973	100.0	Pass
6	0.0657	0.0657	100.0	Pass
7	0.1332	0.1332	100.0	Pass
8	0.0823	0.0823	100.0	Pass
9	0.2169	0.2169	100.0	Pass
10	0.0474	0.0474	100.0	Pass
11	0.0413	0.0413	100.0	Pass
12	0.1144	0.1144	100.0	Pass

13	0.2141	0.2141	100.0	Pass
14	0.1326	0.1326	100.0	Pass
15	0.2040	0.2040	100.0	Pass
16	0.2125	0.2125	100.0	Pass
17	0.2339	0.2339	100.0	Pass
18	0.2099	0.2099	100.0	Pass
19	0.2225	0.2225	100.0	Pass
20	0.1585	0.1585	100.0	Pass
21	0.2225	0.2225	100.0	Pass
22	0.1772	0.1772	100.0	Pass
23	0.1400	0.1400	100.0	Pass
24	0.1003	0.1003	100.0	Pass
25	0.1090	0.1090	100.0	Pass
26	0.1102	0.1102	100.0	Pass
27	0.1498	0.1498	100.0	Pass
28	0.1308	0.1308	100.0	Pass
29	0.1750	0.1750	100.0	Pass
30	0.1235	0.1235	100.0	Pass
Oct1	0.0853	0.0853	100.0	Pass
2	0.2277	0.2277	100.0	Pass
3	0.2010	0.2010	100.0	Pass
4	0.2441	0.2441	100.0	Pass
5	0.2585	0.2585	100.0	Pass
6	0.2865	0.2865	100.0	Pass
7	0.3655	0.3655	100.0	Pass
8	0.2927	0.2927	100.0	Pass
9	0.2251	0.2251	100.0	Pass
10	0.1833	0.1833	100.0	Pass
11	0.3605	0.3605	100.0	Pass
12	0.2360	0.2360	100.0	Pass
13	0.3364	0.3364	100.0	Pass
14	0.1835	0.1835	100.0	Pass
15	0.2220	0.2220	100.0	Pass
16	0.3013	0.3013	100.0	Pass
17	0.2736	0.2736	100.0	Pass
18	0.4428	0.4428	100.0	Pass
19	0.5424	0.5424	100.0	Pass
20	0.4657	0.4657	100.0	Pass
21	0.5638	0.5638	100.0	Pass
22	0.3193	0.3193	100.0	Pass
23	0.5483	0.5483	100.0	Pass
24	0.4761	0.4761	100.0	Pass
25	0.4234	0.4234	100.0	Pass
26	0.5188	0.5188	100.0	Pass
27	0.4340	0.4340	100.0	Pass
28	0.4046	0.4046	100.0	Pass
29	0.3390	0.3390	100.0	Pass
30	0.5163	0.5163	100.0	Pass
31	0.4269	0.4269	100.0	Pass
Nov1	0.5433	0.5433	100.0	Pass
2	0.6654	0.6654	100.0	Pass
3	0.5016	0.5016	100.0	Pass
4	0.5154	0.5154	100.0	Pass
5	0.5706	0.5706	100.0	Pass
6	0.4696	0.4696	100.0	Pass
7	0.4262	0.4262	100.0	Pass
8	0.5627	0.5627	100.0	Pass

9	0.6636	0.6636	100.0	Pass
10	0.5612	0.5612	100.0	Pass
11	0.6313	0.6313	100.0	Pass
12	0.5832	0.5832	100.0	Pass
13	0.4244	0.4244	100.0	Pass
14	0.5103	0.5103	100.0	Pass
15	0.5756	0.5756	100.0	Pass
16	0.6018	0.6018	100.0	Pass
17	0.5449	0.5449	100.0	Pass
18	0.8142	0.8142	100.0	Pass
19	0.7169	0.7169	100.0	Pass
20	0.4609	0.4609	100.0	Pass
21	0.7531	0.7531	100.0	Pass
22	0.8975	0.8975	100.0	Pass
23	0.6633	0.6633	100.0	Pass
24	0.7689	0.7689	100.0	Pass
25	0.4901	0.4901	100.0	Pass
26	0.3983	0.3983	100.0	Pass
27	0.5016	0.5016	100.0	Pass
28	0.4777	0.4777	100.0	Pass
29	0.8096	0.8096	100.0	Pass
30	0.6291	0.6291	100.0	Pass
Dec1	0.7013	0.7013	100.0	Pass
2	0.6731	0.6731	100.0	Pass
3	0.4194	0.4194	100.0	Pass
4	0.4783	0.4783	100.0	Pass
5	0.4053	0.4053	100.0	Pass
6	0.3546	0.3546	100.0	Pass
7	0.5251	0.5251	100.0	Pass
8	0.6605	0.6605	100.0	Pass
9	0.6465	0.6465	100.0	Pass
10	0.6955	0.6955	100.0	Pass
11	0.4989	0.4989	100.0	Pass
12	0.5476	0.5476	100.0	Pass
13	0.8331	0.8331	100.0	Pass
14	0.5547	0.5547	100.0	Pass
15	0.7481	0.7481	100.0	Pass
16	0.4851	0.4851	100.0	Pass
17	0.5956	0.5956	100.0	Pass
18	0.4838	0.4838	100.0	Pass
19	0.5803	0.5803	100.0	Pass
20	0.5620	0.5620	100.0	Pass
21	0.6187	0.6187	100.0	Pass
22	0.6104	0.6104	100.0	Pass
23	0.6656	0.6656	100.0	Pass
24	0.7422	0.7422	100.0	Pass
25	0.6302	0.6302	100.0	Pass
26	0.5726	0.5726	100.0	Pass
27	0.3775	0.3775	100.0	Pass
28	0.6240	0.6240	100.0	Pass
29	0.3952	0.3952	100.0	Pass
30	0.4220	0.4220	100.0	Pass
31	0.7302	0.7302	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #13

Total Pervious Area:0.589

Total Impervious Area:1.708

Mitigated Landuse Totals for POC #13

Total Pervious Area:0.589

Total Impervious Area:1.708

Flow Frequency Return Periods for Predeveloped. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.316429
5 year	1.584009
10 year	1.730137
25 year	1.889098
50 year	1.992855
100 year	2.086512

Flow Frequency Return Periods for Mitigated. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.316429
5 year	1.584009
10 year	1.730137
25 year	1.889098
50 year	1.992855
100 year	2.086512

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #13

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.432	1.432
1957	1.723	1.723
1958	1.299	1.299
1959	1.366	1.366
1960	1.425	1.425
1961	1.076	1.076
1962	1.875	1.875
1963	1.699	1.699
1964	1.441	1.441
1965	1.452	1.452
1966	1.446	1.446
1967	0.886	0.886
1968	1.369	1.369
1969	1.322	1.322
1970	1.189	1.189
1971	1.911	1.911
1972	1.629	1.629
1973	1.460	1.460
1974	1.450	1.450
1975	1.264	1.264
1976	1.555	1.555

1977	1.104	1.104
1978	1.925	1.925
1979	1.221	1.221
1980	1.111	1.111
1981	1.412	1.412
1982	1.628	1.628
1983	1.287	1.287
1984	1.223	1.223
1985	0.873	0.873
1986	1.460	1.460
1987	1.014	1.014
1988	1.558	1.558
1989	1.280	1.280
1990	1.717	1.717
1991	1.042	1.042
1992	0.833	0.833
1993	0.922	0.922
1994	1.235	1.235
1995	1.126	1.126
1996	1.388	1.388
1997	1.418	1.418
1998	0.875	0.875
1999	1.120	1.120
2000	1.024	1.024
2001	0.963	0.963
2002	1.437	1.437
2003	1.843	1.843
2004	1.692	1.692
2005	1.320	1.320
2006	1.354	1.354
2007	1.608	1.608
2008	0.800	0.800
2009	0.751	0.751

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #13

Rank	Predeveloped	Mitigated
1	1.9245	1.9245
2	1.9106	1.9106
3	1.8746	1.8746
4	1.8428	1.8428
5	1.7226	1.7226
6	1.7171	1.7171
7	1.6992	1.6992
8	1.6925	1.6925
9	1.6294	1.6294
10	1.6284	1.6284
11	1.6076	1.6076
12	1.5576	1.5576
13	1.5546	1.5546
14	1.4603	1.4603
15	1.4595	1.4595
16	1.4516	1.4516
17	1.4502	1.4502
18	1.4459	1.4459
19	1.4414	1.4414

20	1.4373	1.4373
21	1.4323	1.4323
22	1.4254	1.4254
23	1.4185	1.4185
24	1.4119	1.4119
25	1.3881	1.3881
26	1.3695	1.3695
27	1.3655	1.3655
28	1.3541	1.3541
29	1.3225	1.3225
30	1.3202	1.3202
31	1.2993	1.2993
32	1.2870	1.2870
33	1.2795	1.2795
34	1.2637	1.2637
35	1.2354	1.2354
36	1.2231	1.2231
37	1.2205	1.2205
38	1.1890	1.1890
39	1.1264	1.1264
40	1.1200	1.1200
41	1.1114	1.1114
42	1.1045	1.1045
43	1.0763	1.0763
44	1.0424	1.0424
45	1.0237	1.0237
46	1.0135	1.0135
47	0.9626	0.9626
48	0.9216	0.9216
49	0.8858	0.8858
50	0.8750	0.8750
51	0.8727	0.8727
52	0.8326	0.8326
53	0.7998	0.7998
54	0.7506	0.7506

Stream Protection Duration

POC #13

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.6582	997	997	100	Pass
0.6717	926	926	100	Pass
0.6852	858	858	100	Pass
0.6987	794	794	100	Pass
0.7121	743	743	100	Pass
0.7256	688	688	100	Pass
0.7391	626	626	100	Pass
0.7526	589	589	100	Pass
0.7661	551	551	100	Pass
0.7795	516	516	100	Pass
0.7930	478	478	100	Pass
0.8065	442	442	100	Pass
0.8200	412	412	100	Pass

0.8335	390	390	100	Pass
0.8470	365	365	100	Pass
0.8604	342	342	100	Pass
0.8739	315	315	100	Pass
0.8874	299	299	100	Pass
0.9009	275	275	100	Pass
0.9144	257	257	100	Pass
0.9278	242	242	100	Pass
0.9413	229	229	100	Pass
0.9548	218	218	100	Pass
0.9683	204	204	100	Pass
0.9818	194	194	100	Pass
0.9952	180	180	100	Pass
1.0087	174	174	100	Pass
1.0222	164	164	100	Pass
1.0357	156	156	100	Pass
1.0492	150	150	100	Pass
1.0627	142	142	100	Pass
1.0761	134	134	100	Pass
1.0896	128	128	100	Pass
1.1031	122	122	100	Pass
1.1166	111	111	100	Pass
1.1301	103	103	100	Pass
1.1435	98	98	100	Pass
1.1570	93	93	100	Pass
1.1705	92	92	100	Pass
1.1840	90	90	100	Pass
1.1975	85	85	100	Pass
1.2109	79	79	100	Pass
1.2244	76	76	100	Pass
1.2379	72	72	100	Pass
1.2514	70	70	100	Pass
1.2649	67	67	100	Pass
1.2784	62	62	100	Pass
1.2918	54	54	100	Pass
1.3053	52	52	100	Pass
1.3188	51	51	100	Pass
1.3323	48	48	100	Pass
1.3458	47	47	100	Pass
1.3592	45	45	100	Pass
1.3727	43	43	100	Pass
1.3862	42	42	100	Pass
1.3997	40	40	100	Pass
1.4132	37	37	100	Pass
1.4266	35	35	100	Pass
1.4401	32	32	100	Pass
1.4536	28	28	100	Pass
1.4671	25	25	100	Pass
1.4806	24	24	100	Pass
1.4940	24	24	100	Pass
1.5075	23	23	100	Pass
1.5210	22	22	100	Pass
1.5345	20	20	100	Pass
1.5480	20	20	100	Pass
1.5615	16	16	100	Pass
1.5749	15	15	100	Pass
1.5884	15	15	100	Pass

1.6019	15	15	100	Pass
1.6154	13	13	100	Pass
1.6289	13	13	100	Pass
1.6423	10	10	100	Pass
1.6558	10	10	100	Pass
1.6693	10	10	100	Pass
1.6828	10	10	100	Pass
1.6963	9	9	100	Pass
1.7097	8	8	100	Pass
1.7232	6	6	100	Pass
1.7367	6	6	100	Pass
1.7502	6	6	100	Pass
1.7637	5	5	100	Pass
1.7772	5	5	100	Pass
1.7906	5	5	100	Pass
1.8041	4	4	100	Pass
1.8176	4	4	100	Pass
1.8311	4	4	100	Pass
1.8446	3	3	100	Pass
1.8580	3	3	100	Pass
1.8715	3	3	100	Pass
1.8850	2	2	100	Pass
1.8985	2	2	100	Pass
1.9120	1	1	100	Pass
1.9254	0	0	100	Pass
1.9389	0	0	0	Pass
1.9524	0	0	0	Pass
1.9659	0	0	0	Pass
1.9794	0	0	0	Pass
1.9929	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #13
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 13
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	86.4475	86.4475	100.0	Pass
Feb	66.2592	66.2592	100.0	Pass
Mar	58.6012	58.6012	100.0	Pass
Apr	32.4180	32.4180	100.0	Pass
May	17.0099	17.0099	100.0	Pass
Jun	11.1701	11.1701	100.0	Pass
Jul	5.4664	5.4664	100.0	Pass
Aug	8.1391	8.1391	100.0	Pass
Sep	18.8709	18.8709	100.0	Pass
Oct	47.0711	47.0711	100.0	Pass
Nov	81.5501	81.5501	100.0	Pass
Dec	83.4062	83.4062	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	2.7688	2.7688	100.0	Pass
2	2.1952	2.1952	100.0	Pass
3	2.7685	2.7685	100.0	Pass
4	3.2335	3.2335	100.0	Pass
5	2.3884	2.3884	100.0	Pass
6	3.5300	3.5300	100.0	Pass
7	2.7752	2.7752	100.0	Pass
8	2.7778	2.7778	100.0	Pass
9	2.9480	2.9480	100.0	Pass
10	2.8784	2.8784	100.0	Pass
11	3.5044	3.5044	100.0	Pass
12	2.7823	2.7823	100.0	Pass
13	3.4697	3.4697	100.0	Pass
14	3.4723	3.4723	100.0	Pass
15	3.1786	3.1786	100.0	Pass
16	2.6313	2.6313	100.0	Pass
17	2.5140	2.5140	100.0	Pass
18	2.2202	2.2202	100.0	Pass
19	2.2038	2.2038	100.0	Pass
20	1.4708	1.4708	100.0	Pass
21	2.7186	2.7186	100.0	Pass
22	3.3213	3.3213	100.0	Pass
23	3.7319	3.7319	100.0	Pass
24	2.5913	2.5913	100.0	Pass
25	2.1975	2.1975	100.0	Pass
26	1.9836	1.9836	100.0	Pass
27	2.4661	2.4661	100.0	Pass
28	3.1285	3.1285	100.0	Pass
29	2.4239	2.4239	100.0	Pass
30	2.8378	2.8378	100.0	Pass
31	1.7435	1.7435	100.0	Pass
Feb1	1.9591	1.9591	100.0	Pass
2	1.7833	1.7833	100.0	Pass
3	1.6168	1.6168	100.0	Pass
4	1.4978	1.4978	100.0	Pass
5	2.7085	2.7085	100.0	Pass
6	1.4202	1.4202	100.0	Pass
7	2.0098	2.0098	100.0	Pass
8	1.5441	1.5441	100.0	Pass
9	1.8347	1.8347	100.0	Pass
10	2.4311	2.4311	100.0	Pass
11	3.2137	3.2137	100.0	Pass
12	2.5501	2.5501	100.0	Pass
13	2.7187	2.7187	100.0	Pass
14	3.7719	3.7719	100.0	Pass
15	2.8036	2.8036	100.0	Pass
16	3.6219	3.6219	100.0	Pass
17	3.2124	3.2124	100.0	Pass
18	2.5653	2.5653	100.0	Pass
19	2.2267	2.2267	100.0	Pass
20	2.1384	2.1384	100.0	Pass
21	1.7523	1.7523	100.0	Pass
22	2.5293	2.5293	100.0	Pass
23	2.4155	2.4155	100.0	Pass
24	2.6580	2.6580	100.0	Pass

25	2.3884	2.3884	100.0	Pass
26	2.3576	2.3576	100.0	Pass
27	2.0693	2.0693	100.0	Pass
28	2.7866	2.7866	100.0	Pass
29	1.9853	1.9853	100.0	Pass
Mar1	1.9502	1.9502	100.0	Pass
2	1.6029	1.6029	100.0	Pass
3	2.2345	2.2345	100.0	Pass
4	2.3448	2.3448	100.0	Pass
5	1.8561	1.8561	100.0	Pass
6	2.3374	2.3374	100.0	Pass
7	2.2848	2.2848	100.0	Pass
8	2.2276	2.2276	100.0	Pass
9	2.2339	2.2339	100.0	Pass
10	1.9563	1.9563	100.0	Pass
11	2.1145	2.1145	100.0	Pass
12	1.8736	1.8736	100.0	Pass
13	2.2620	2.2620	100.0	Pass
14	1.8075	1.8075	100.0	Pass
15	1.4728	1.4728	100.0	Pass
16	1.4127	1.4127	100.0	Pass
17	1.9080	1.9080	100.0	Pass
18	1.1822	1.1822	100.0	Pass
19	1.7444	1.7444	100.0	Pass
20	1.4142	1.4142	100.0	Pass
21	2.3559	2.3559	100.0	Pass
22	2.6470	2.6470	100.0	Pass
23	2.2152	2.2152	100.0	Pass
24	1.4424	1.4424	100.0	Pass
25	2.1703	2.1703	100.0	Pass
26	1.6011	1.6011	100.0	Pass
27	1.5224	1.5224	100.0	Pass
28	1.7065	1.7065	100.0	Pass
29	1.5622	1.5622	100.0	Pass
30	1.1783	1.1783	100.0	Pass
31	0.9487	0.9487	100.0	Pass
Apr1	1.0078	1.0078	100.0	Pass
2	1.1287	1.1287	100.0	Pass
3	1.5362	1.5362	100.0	Pass
4	1.4043	1.4043	100.0	Pass
5	1.5181	1.5181	100.0	Pass
6	0.8273	0.8273	100.0	Pass
7	1.3420	1.3420	100.0	Pass
8	1.3603	1.3603	100.0	Pass
9	1.2034	1.2034	100.0	Pass
10	1.1978	1.1978	100.0	Pass
11	1.6243	1.6243	100.0	Pass
12	1.4052	1.4052	100.0	Pass
13	1.4620	1.4620	100.0	Pass
14	1.2519	1.2519	100.0	Pass
15	1.3409	1.3409	100.0	Pass
16	0.7538	0.7538	100.0	Pass
17	1.0202	1.0202	100.0	Pass
18	1.1703	1.1703	100.0	Pass
19	0.6445	0.6445	100.0	Pass
20	0.6173	0.6173	100.0	Pass
21	1.0302	1.0302	100.0	Pass

22	0.8612	0.8612	100.0	Pass
23	0.7567	0.7567	100.0	Pass
24	0.6111	0.6111	100.0	Pass
25	0.7311	0.7311	100.0	Pass
26	1.2259	1.2259	100.0	Pass
27	0.9542	0.9542	100.0	Pass
28	0.9970	0.9970	100.0	Pass
29	0.4895	0.4895	100.0	Pass
30	0.6404	0.6404	100.0	Pass
May1	0.9879	0.9879	100.0	Pass
2	0.7232	0.7232	100.0	Pass
3	0.7696	0.7696	100.0	Pass
4	0.6101	0.6101	100.0	Pass
5	0.5858	0.5858	100.0	Pass
6	0.4942	0.4942	100.0	Pass
7	0.6539	0.6539	100.0	Pass
8	0.4027	0.4027	100.0	Pass
9	0.5604	0.5604	100.0	Pass
10	0.4489	0.4489	100.0	Pass
11	0.4215	0.4215	100.0	Pass
12	0.6023	0.6023	100.0	Pass
13	0.6474	0.6474	100.0	Pass
14	0.6331	0.6331	100.0	Pass
15	0.4260	0.4260	100.0	Pass
16	0.5497	0.5497	100.0	Pass
17	0.4511	0.4511	100.0	Pass
18	0.7283	0.7283	100.0	Pass
19	0.3852	0.3852	100.0	Pass
20	0.3736	0.3736	100.0	Pass
21	0.3817	0.3817	100.0	Pass
22	0.4680	0.4680	100.0	Pass
23	0.4121	0.4121	100.0	Pass
24	0.4330	0.4330	100.0	Pass
25	0.3624	0.3624	100.0	Pass
26	0.6292	0.6292	100.0	Pass
27	0.4942	0.4942	100.0	Pass
28	0.5342	0.5342	100.0	Pass
29	0.7292	0.7292	100.0	Pass
30	0.4725	0.4725	100.0	Pass
31	0.5156	0.5156	100.0	Pass
Jun1	0.3885	0.3885	100.0	Pass
2	0.6357	0.6357	100.0	Pass
3	0.6017	0.6017	100.0	Pass
4	0.4323	0.4323	100.0	Pass
5	0.7231	0.7231	100.0	Pass
6	0.2747	0.2747	100.0	Pass
7	0.4205	0.4205	100.0	Pass
8	0.5915	0.5915	100.0	Pass
9	0.4447	0.4447	100.0	Pass
10	0.4213	0.4213	100.0	Pass
11	0.3058	0.3058	100.0	Pass
12	0.3715	0.3715	100.0	Pass
13	0.5937	0.5937	100.0	Pass
14	0.2448	0.2448	100.0	Pass
15	0.4871	0.4871	100.0	Pass
16	0.2150	0.2150	100.0	Pass
17	0.3029	0.3029	100.0	Pass

18	0.2061	0.2061	100.0	Pass
19	0.2435	0.2435	100.0	Pass
20	0.2651	0.2651	100.0	Pass
21	0.2664	0.2664	100.0	Pass
22	0.1455	0.1455	100.0	Pass
23	0.7444	0.7444	100.0	Pass
24	0.2016	0.2016	100.0	Pass
25	0.3307	0.3307	100.0	Pass
26	0.1972	0.1972	100.0	Pass
27	0.1774	0.1774	100.0	Pass
28	0.1827	0.1827	100.0	Pass
29	0.2409	0.2409	100.0	Pass
30	0.5246	0.5246	100.0	Pass
Jul1	0.1313	0.1313	100.0	Pass
2	0.1119	0.1119	100.0	Pass
3	0.1218	0.1218	100.0	Pass
4	0.2962	0.2962	100.0	Pass
5	0.2216	0.2216	100.0	Pass
6	0.1681	0.1681	100.0	Pass
7	0.3270	0.3270	100.0	Pass
8	0.1855	0.1855	100.0	Pass
9	0.3870	0.3870	100.0	Pass
10	0.2525	0.2525	100.0	Pass
11	0.5186	0.5186	100.0	Pass
12	0.2664	0.2664	100.0	Pass
13	0.1956	0.1956	100.0	Pass
14	0.2997	0.2997	100.0	Pass
15	0.1200	0.1200	100.0	Pass
16	0.0757	0.0757	100.0	Pass
17	0.2569	0.2569	100.0	Pass
18	0.0872	0.0872	100.0	Pass
19	0.1065	0.1065	100.0	Pass
20	0.1862	0.1862	100.0	Pass
21	0.1486	0.1486	100.0	Pass
22	0.0139	0.0139	100.0	Pass
23	0.0425	0.0425	100.0	Pass
24	0.0486	0.0486	100.0	Pass
25	0.1079	0.1079	100.0	Pass
26	0.0444	0.0444	100.0	Pass
27	0.0674	0.0674	100.0	Pass
28	0.0557	0.0557	100.0	Pass
29	0.0358	0.0358	100.0	Pass
30	0.0620	0.0620	100.0	Pass
31	0.0721	0.0721	100.0	Pass
Aug1	0.2964	0.2964	100.0	Pass
2	0.1033	0.1033	100.0	Pass
3	0.0394	0.0394	100.0	Pass
4	0.0394	0.0394	100.0	Pass
5	0.3373	0.3373	100.0	Pass
6	0.2263	0.2263	100.0	Pass
7	0.0817	0.0817	100.0	Pass
8	0.0829	0.0829	100.0	Pass
9	0.0063	0.0063	100.0	Pass
10	0.0433	0.0433	100.0	Pass
11	0.2158	0.2158	100.0	Pass
12	0.1846	0.1846	100.0	Pass
13	0.2327	0.2327	100.0	Pass

14	0.1435	0.1435	100.0	Pass
15	0.1292	0.1292	100.0	Pass
16	0.1099	0.1099	100.0	Pass
17	0.2135	0.2135	100.0	Pass
18	0.4126	0.4126	100.0	Pass
19	0.1159	0.1159	100.0	Pass
20	0.3205	0.3205	100.0	Pass
21	0.2963	0.2963	100.0	Pass
22	0.5765	0.5765	100.0	Pass
23	0.5439	0.5439	100.0	Pass
24	0.4762	0.4762	100.0	Pass
25	0.1947	0.1947	100.0	Pass
26	0.5581	0.5581	100.0	Pass
27	0.5711	0.5711	100.0	Pass
28	0.5747	0.5747	100.0	Pass
29	0.3623	0.3623	100.0	Pass
30	0.5793	0.5793	100.0	Pass
31	0.9225	0.9225	100.0	Pass
Sep1	0.3659	0.3659	100.0	Pass
2	0.3699	0.3699	100.0	Pass
3	0.3972	0.3972	100.0	Pass
4	0.4959	0.4959	100.0	Pass
5	0.4255	0.4255	100.0	Pass
6	0.2925	0.2925	100.0	Pass
7	0.5648	0.5648	100.0	Pass
8	0.3622	0.3622	100.0	Pass
9	0.9170	0.9170	100.0	Pass
10	0.2208	0.2208	100.0	Pass
11	0.1844	0.1844	100.0	Pass
12	0.4843	0.4843	100.0	Pass
13	0.9112	0.9112	100.0	Pass
14	0.5858	0.5858	100.0	Pass
15	0.8825	0.8825	100.0	Pass
16	0.9448	0.9448	100.0	Pass
17	1.0241	1.0241	100.0	Pass
18	0.9231	0.9231	100.0	Pass
19	0.9910	0.9910	100.0	Pass
20	0.7308	0.7308	100.0	Pass
21	1.0066	1.0066	100.0	Pass
22	0.8092	0.8092	100.0	Pass
23	0.6373	0.6373	100.0	Pass
24	0.4575	0.4575	100.0	Pass
25	0.4810	0.4810	100.0	Pass
26	0.4857	0.4857	100.0	Pass
27	0.6641	0.6641	100.0	Pass
28	0.5756	0.5756	100.0	Pass
29	0.7596	0.7596	100.0	Pass
30	0.5545	0.5545	100.0	Pass
Oct1	0.3908	0.3908	100.0	Pass
2	0.9729	0.9729	100.0	Pass
3	0.8722	0.8722	100.0	Pass
4	1.0698	1.0698	100.0	Pass
5	1.1381	1.1381	100.0	Pass
6	1.2569	1.2569	100.0	Pass
7	1.6112	1.6112	100.0	Pass
8	1.3193	1.3193	100.0	Pass
9	1.0278	1.0278	100.0	Pass

10	0.8408	0.8408	100.0	Pass
11	1.5733	1.5733	100.0	Pass
12	1.0679	1.0679	100.0	Pass
13	1.4778	1.4778	100.0	Pass
14	0.8582	0.8582	100.0	Pass
15	1.0047	1.0047	100.0	Pass
16	1.3528	1.3528	100.0	Pass
17	1.2384	1.2384	100.0	Pass
18	1.9788	1.9788	100.0	Pass
19	2.4437	2.4437	100.0	Pass
20	2.1136	2.1136	100.0	Pass
21	2.5511	2.5511	100.0	Pass
22	1.5273	1.5273	100.0	Pass
23	2.4840	2.4840	100.0	Pass
24	2.1876	2.1876	100.0	Pass
25	1.9617	1.9617	100.0	Pass
26	2.3662	2.3662	100.0	Pass
27	2.0231	2.0231	100.0	Pass
28	1.8816	1.8816	100.0	Pass
29	1.5964	1.5964	100.0	Pass
30	2.3345	2.3345	100.0	Pass
31	1.9863	1.9863	100.0	Pass
Nov1	2.4968	2.4968	100.0	Pass
2	3.0032	3.0032	100.0	Pass
3	2.3649	2.3649	100.0	Pass
4	2.3857	2.3857	100.0	Pass
5	2.6359	2.6359	100.0	Pass
6	2.2164	2.2164	100.0	Pass
7	2.0077	2.0077	100.0	Pass
8	2.5690	2.5690	100.0	Pass
9	3.0375	3.0375	100.0	Pass
10	2.6150	2.6150	100.0	Pass
11	2.9173	2.9173	100.0	Pass
12	2.6989	2.6989	100.0	Pass
13	2.0433	2.0433	100.0	Pass
14	2.3692	2.3692	100.0	Pass
15	2.6589	2.6589	100.0	Pass
16	2.7758	2.7758	100.0	Pass
17	2.5463	2.5463	100.0	Pass
18	3.7239	3.7239	100.0	Pass
19	3.3483	3.3483	100.0	Pass
20	2.2396	2.2396	100.0	Pass
21	3.4751	3.4751	100.0	Pass
22	4.0932	4.0932	100.0	Pass
23	3.1527	3.1527	100.0	Pass
24	3.5916	3.5916	100.0	Pass
25	2.3986	2.3986	100.0	Pass
26	1.9485	1.9485	100.0	Pass
27	2.3399	2.3399	100.0	Pass
28	2.2338	2.2338	100.0	Pass
29	3.6816	3.6816	100.0	Pass
30	2.9671	2.9671	100.0	Pass
Dec1	3.2654	3.2654	100.0	Pass
2	3.1725	3.1725	100.0	Pass
3	2.0534	2.0534	100.0	Pass
4	2.2576	2.2576	100.0	Pass
5	1.9467	1.9467	100.0	Pass

6	1.6839	1.6839	100.0	Pass
7	2.4058	2.4058	100.0	Pass
8	3.0211	3.0211	100.0	Pass
9	3.0107	3.0107	100.0	Pass
10	3.2525	3.2525	100.0	Pass
11	2.3864	2.3864	100.0	Pass
12	2.5735	2.5735	100.0	Pass
13	3.8013	3.8013	100.0	Pass
14	2.6725	2.6725	100.0	Pass
15	3.4613	3.4613	100.0	Pass
16	2.3608	2.3608	100.0	Pass
17	2.7919	2.7919	100.0	Pass
18	2.3040	2.3040	100.0	Pass
19	2.6871	2.6871	100.0	Pass
20	2.6432	2.6432	100.0	Pass
21	2.9095	2.9095	100.0	Pass
22	2.8608	2.8608	100.0	Pass
23	3.1046	3.1046	100.0	Pass
24	3.4316	3.4316	100.0	Pass
25	2.9982	2.9982	100.0	Pass
26	2.7361	2.7361	100.0	Pass
27	1.8480	1.8480	100.0	Pass
28	2.8815	2.8815	100.0	Pass
29	1.9257	1.9257	100.0	Pass
30	1.9958	1.9958	100.0	Pass
31	3.3412	3.3412	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #14

Total Pervious Area:0.127
Total Impervious Area:0.41

Mitigated Landuse Totals for POC #14

Total Pervious Area:0.127
Total Impervious Area:0.41

Flow Frequency Return Periods for Predeveloped. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.311263
5 year	0.373794
10 year	0.407894
25 year	0.444954
50 year	0.469126
100 year	0.490933

Flow Frequency Return Periods for Mitigated. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.311263
5 year	0.373794

10 year	0.407894
25 year	0.444954
50 year	0.469126
100 year	0.490933

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #14

Year	Predeveloped	Mitigated
1956	0.337	0.337
1957	0.407	0.407
1958	0.308	0.308
1959	0.322	0.322
1960	0.336	0.336
1961	0.256	0.256
1962	0.441	0.441
1963	0.400	0.400
1964	0.341	0.341
1965	0.343	0.343
1966	0.340	0.340
1967	0.210	0.210
1968	0.323	0.323
1969	0.311	0.311
1970	0.282	0.282
1971	0.450	0.450
1972	0.383	0.383
1973	0.345	0.345
1974	0.341	0.341
1975	0.298	0.298
1976	0.367	0.367
1977	0.261	0.261
1978	0.455	0.455
1979	0.288	0.288
1980	0.263	0.263
1981	0.334	0.334
1982	0.385	0.385
1983	0.304	0.304
1984	0.289	0.289
1985	0.208	0.208
1986	0.345	0.345
1987	0.240	0.240
1988	0.368	0.368
1989	0.303	0.303
1990	0.404	0.404
1991	0.246	0.246
1992	0.198	0.198
1993	0.219	0.219
1994	0.292	0.292
1995	0.269	0.269
1996	0.331	0.331
1997	0.336	0.336
1998	0.208	0.208
1999	0.265	0.265
2000	0.242	0.242
2001	0.229	0.229
2002	0.344	0.344
2003	0.434	0.434

2004	0.399	0.399
2005	0.312	0.312
2006	0.319	0.319
2007	0.379	0.379
2008	0.190	0.190
2009	0.179	0.179

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #14

Rank	Predeveloped	Mitigated
1	0.4546	0.4546
2	0.4500	0.4500
3	0.4412	0.4412
4	0.4336	0.4336
5	0.4069	0.4069
6	0.4044	0.4044
7	0.4004	0.4004
8	0.3990	0.3990
9	0.3852	0.3852
10	0.3832	0.3832
11	0.3788	0.3788
12	0.3676	0.3676
13	0.3666	0.3666
14	0.3450	0.3450
15	0.3447	0.3447
16	0.3444	0.3444
17	0.3425	0.3425
18	0.3414	0.3414
19	0.3409	0.3409
20	0.3405	0.3405
21	0.3371	0.3371
22	0.3358	0.3358
23	0.3356	0.3356
24	0.3339	0.3339
25	0.3309	0.3309
26	0.3231	0.3231
27	0.3218	0.3218
28	0.3195	0.3195
29	0.3119	0.3119
30	0.3113	0.3113
31	0.3078	0.3078
32	0.3043	0.3043
33	0.3026	0.3026
34	0.2984	0.2984
35	0.2921	0.2921
36	0.2886	0.2886
37	0.2881	0.2881
38	0.2822	0.2822
39	0.2690	0.2690
40	0.2650	0.2650
41	0.2629	0.2629
42	0.2613	0.2613
43	0.2560	0.2560
44	0.2462	0.2462
45	0.2421	0.2421
46	0.2396	0.2396

47	0.2289	0.2289
48	0.2191	0.2191
49	0.2100	0.2100
50	0.2079	0.2079
51	0.2078	0.2078
52	0.1978	0.1978
53	0.1900	0.1900
54	0.1786	0.1786

Stream Protection Duration

POC #14

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1556	1020	1020	100	Pass
0.1588	959	959	100	Pass
0.1620	894	894	100	Pass
0.1651	813	813	100	Pass
0.1683	765	765	100	Pass
0.1715	707	707	100	Pass
0.1746	651	651	100	Pass
0.1778	608	608	100	Pass
0.1810	569	569	100	Pass
0.1841	520	520	100	Pass
0.1873	490	490	100	Pass
0.1905	453	453	100	Pass
0.1936	424	424	100	Pass
0.1968	402	402	100	Pass
0.2000	382	382	100	Pass
0.2031	344	344	100	Pass
0.2063	325	325	100	Pass
0.2095	302	302	100	Pass
0.2126	285	285	100	Pass
0.2158	269	269	100	Pass
0.2190	250	250	100	Pass
0.2221	234	234	100	Pass
0.2253	223	223	100	Pass
0.2285	211	211	100	Pass
0.2316	198	198	100	Pass
0.2348	186	186	100	Pass
0.2380	179	179	100	Pass
0.2411	165	165	100	Pass
0.2443	161	161	100	Pass
0.2475	153	153	100	Pass
0.2506	144	144	100	Pass
0.2538	139	139	100	Pass
0.2570	134	134	100	Pass
0.2601	122	122	100	Pass
0.2633	114	114	100	Pass
0.2665	104	104	100	Pass
0.2696	99	99	100	Pass
0.2728	97	97	100	Pass
0.2760	92	92	100	Pass
0.2791	90	90	100	Pass

0.2823	86	86	100	Pass
0.2855	79	79	100	Pass
0.2886	79	79	100	Pass
0.2918	74	74	100	Pass
0.2950	72	72	100	Pass
0.2981	69	69	100	Pass
0.3013	66	66	100	Pass
0.3045	56	56	100	Pass
0.3076	53	53	100	Pass
0.3108	52	52	100	Pass
0.3140	48	48	100	Pass
0.3171	47	47	100	Pass
0.3203	45	45	100	Pass
0.3235	44	44	100	Pass
0.3266	42	42	100	Pass
0.3298	41	41	100	Pass
0.3330	39	39	100	Pass
0.3361	35	35	100	Pass
0.3393	33	33	100	Pass
0.3425	30	30	100	Pass
0.3456	25	25	100	Pass
0.3488	24	24	100	Pass
0.3520	24	24	100	Pass
0.3551	23	23	100	Pass
0.3583	22	22	100	Pass
0.3615	22	22	100	Pass
0.3646	20	20	100	Pass
0.3678	18	18	100	Pass
0.3710	16	16	100	Pass
0.3741	15	15	100	Pass
0.3773	15	15	100	Pass
0.3805	13	13	100	Pass
0.3836	13	13	100	Pass
0.3868	10	10	100	Pass
0.3900	10	10	100	Pass
0.3931	10	10	100	Pass
0.3963	10	10	100	Pass
0.3995	9	9	100	Pass
0.4026	8	8	100	Pass
0.4058	7	7	100	Pass
0.4090	6	6	100	Pass
0.4121	6	6	100	Pass
0.4153	5	5	100	Pass
0.4185	5	5	100	Pass
0.4216	5	5	100	Pass
0.4248	5	5	100	Pass
0.4280	4	4	100	Pass
0.4311	4	4	100	Pass
0.4343	3	3	100	Pass
0.4375	3	3	100	Pass
0.4406	3	3	100	Pass
0.4438	2	2	100	Pass
0.4470	2	2	100	Pass
0.4501	2	2	100	Pass
0.4533	1	1	100	Pass
0.4565	0	0	100	Pass
0.4596	0	0	0	Pass

0.4628	0	0	0	Pass
0.4660	0	0	0	Pass
0.4691	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #14
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 14
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	20.3036	20.3036	100.0	Pass
Feb	15.5555	15.5555	100.0	Pass
Mar	13.7620	13.7620	100.0	Pass
Apr	7.6256	7.6256	100.0	Pass
May	4.0211	4.0211	100.0	Pass
Jun	2.6470	2.6470	100.0	Pass
Jul	1.2989	1.2989	100.0	Pass
Aug	1.9375	1.9375	100.0	Pass
Sep	4.4747	4.4747	100.0	Pass
Oct	11.1185	11.1185	100.0	Pass
Nov	19.1839	19.1839	100.0	Pass
Dec	19.5892	19.5892	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.6506	0.6506	100.0	Pass
2	0.5143	0.5143	100.0	Pass
3	0.6511	0.6511	100.0	Pass
4	0.7620	0.7620	100.0	Pass
5	0.5596	0.5596	100.0	Pass
6	0.8321	0.8321	100.0	Pass
7	0.6506	0.6506	100.0	Pass
8	0.6521	0.6521	100.0	Pass
9	0.6935	0.6935	100.0	Pass
10	0.6757	0.6757	100.0	Pass
11	0.8243	0.8243	100.0	Pass
12	0.6519	0.6519	100.0	Pass
13	0.8160	0.8160	100.0	Pass
14	0.8157	0.8157	100.0	Pass
15	0.7458	0.7458	100.0	Pass
16	0.6153	0.6153	100.0	Pass
17	0.5885	0.5885	100.0	Pass
18	0.5196	0.5196	100.0	Pass
19	0.5170	0.5170	100.0	Pass
20	0.3430	0.3430	100.0	Pass
21	0.6426	0.6426	100.0	Pass
22	0.7825	0.7825	100.0	Pass
23	0.8780	0.8780	100.0	Pass
24	0.6060	0.6060	100.0	Pass
25	0.5137	0.5137	100.0	Pass

26	0.4638	0.4638	100.0	Pass
27	0.5799	0.5799	100.0	Pass
28	0.7366	0.7366	100.0	Pass
29	0.5680	0.5680	100.0	Pass
30	0.6674	0.6674	100.0	Pass
31	0.4068	0.4068	100.0	Pass
Feb1	0.4593	0.4593	100.0	Pass
2	0.4186	0.4186	100.0	Pass
3	0.3790	0.3790	100.0	Pass
4	0.3511	0.3511	100.0	Pass
5	0.6393	0.6393	100.0	Pass
6	0.3310	0.3310	100.0	Pass
7	0.4730	0.4730	100.0	Pass
8	0.3619	0.3619	100.0	Pass
9	0.4321	0.4321	100.0	Pass
10	0.5735	0.5735	100.0	Pass
11	0.7572	0.7572	100.0	Pass
12	0.5978	0.5978	100.0	Pass
13	0.6391	0.6391	100.0	Pass
14	0.8895	0.8895	100.0	Pass
15	0.6564	0.6564	100.0	Pass
16	0.8523	0.8523	100.0	Pass
17	0.7538	0.7538	100.0	Pass
18	0.5993	0.5993	100.0	Pass
19	0.5206	0.5206	100.0	Pass
20	0.5006	0.5006	100.0	Pass
21	0.4102	0.4102	100.0	Pass
22	0.5951	0.5951	100.0	Pass
23	0.5675	0.5675	100.0	Pass
24	0.6247	0.6247	100.0	Pass
25	0.5602	0.5602	100.0	Pass
26	0.5526	0.5526	100.0	Pass
27	0.4846	0.4846	100.0	Pass
28	0.6540	0.6540	100.0	Pass
29	0.4655	0.4655	100.0	Pass
Mar1	0.4577	0.4577	100.0	Pass
2	0.3754	0.3754	100.0	Pass
3	0.5261	0.5261	100.0	Pass
4	0.5515	0.5515	100.0	Pass
5	0.4354	0.4354	100.0	Pass
6	0.5492	0.5492	100.0	Pass
7	0.5375	0.5375	100.0	Pass
8	0.5232	0.5232	100.0	Pass
9	0.5247	0.5247	100.0	Pass
10	0.4586	0.4586	100.0	Pass
11	0.4965	0.4965	100.0	Pass
12	0.4397	0.4397	100.0	Pass
13	0.5319	0.5319	100.0	Pass
14	0.4236	0.4236	100.0	Pass
15	0.3448	0.3448	100.0	Pass
16	0.3315	0.3315	100.0	Pass
17	0.4487	0.4487	100.0	Pass
18	0.2763	0.2763	100.0	Pass
19	0.4109	0.4109	100.0	Pass
20	0.3321	0.3321	100.0	Pass
21	0.5561	0.5561	100.0	Pass
22	0.6242	0.6242	100.0	Pass

23	0.5197	0.5197	100.0	Pass
24	0.3361	0.3361	100.0	Pass
25	0.5109	0.5109	100.0	Pass
26	0.3748	0.3748	100.0	Pass
27	0.3574	0.3574	100.0	Pass
28	0.4007	0.4007	100.0	Pass
29	0.3669	0.3669	100.0	Pass
30	0.2757	0.2757	100.0	Pass
31	0.2219	0.2219	100.0	Pass
Apr1	0.2366	0.2366	100.0	Pass
2	0.2656	0.2656	100.0	Pass
3	0.3630	0.3630	100.0	Pass
4	0.3305	0.3305	100.0	Pass
5	0.3567	0.3567	100.0	Pass
6	0.1929	0.1929	100.0	Pass
7	0.3165	0.3165	100.0	Pass
8	0.3200	0.3200	100.0	Pass
9	0.2833	0.2833	100.0	Pass
10	0.2813	0.2813	100.0	Pass
11	0.3838	0.3838	100.0	Pass
12	0.3304	0.3304	100.0	Pass
13	0.3443	0.3443	100.0	Pass
14	0.2940	0.2940	100.0	Pass
15	0.3151	0.3151	100.0	Pass
16	0.1756	0.1756	100.0	Pass
17	0.2402	0.2402	100.0	Pass
18	0.2760	0.2760	100.0	Pass
19	0.1503	0.1503	100.0	Pass
20	0.1449	0.1449	100.0	Pass
21	0.2436	0.2436	100.0	Pass
22	0.2031	0.2031	100.0	Pass
23	0.1779	0.1779	100.0	Pass
24	0.1435	0.1435	100.0	Pass
25	0.1726	0.1726	100.0	Pass
26	0.2896	0.2896	100.0	Pass
27	0.2245	0.2245	100.0	Pass
28	0.2346	0.2346	100.0	Pass
29	0.1140	0.1140	100.0	Pass
30	0.1510	0.1510	100.0	Pass
May1	0.2341	0.2341	100.0	Pass
2	0.1702	0.1702	100.0	Pass
3	0.1817	0.1817	100.0	Pass
4	0.1435	0.1435	100.0	Pass
5	0.1380	0.1380	100.0	Pass
6	0.1165	0.1165	100.0	Pass
7	0.1547	0.1547	100.0	Pass
8	0.0946	0.0946	100.0	Pass
9	0.1326	0.1326	100.0	Pass
10	0.1061	0.1061	100.0	Pass
11	0.0997	0.0997	100.0	Pass
12	0.1427	0.1427	100.0	Pass
13	0.1533	0.1533	100.0	Pass
14	0.1500	0.1500	100.0	Pass
15	0.1001	0.1001	100.0	Pass
16	0.1302	0.1302	100.0	Pass
17	0.1065	0.1065	100.0	Pass
18	0.1730	0.1730	100.0	Pass

19	0.0907	0.0907	100.0	Pass
20	0.0884	0.0884	100.0	Pass
21	0.0903	0.0903	100.0	Pass
22	0.1111	0.1111	100.0	Pass
23	0.0975	0.0975	100.0	Pass
24	0.1025	0.1025	100.0	Pass
25	0.0856	0.0856	100.0	Pass
26	0.1494	0.1494	100.0	Pass
27	0.1169	0.1169	100.0	Pass
28	0.1266	0.1266	100.0	Pass
29	0.1728	0.1728	100.0	Pass
30	0.1114	0.1114	100.0	Pass
31	0.1217	0.1217	100.0	Pass
Jun1	0.0913	0.0913	100.0	Pass
2	0.1510	0.1510	100.0	Pass
3	0.1428	0.1428	100.0	Pass
4	0.1022	0.1022	100.0	Pass
5	0.1718	0.1718	100.0	Pass
6	0.0643	0.0643	100.0	Pass
7	0.0994	0.0994	100.0	Pass
8	0.1402	0.1402	100.0	Pass
9	0.1052	0.1052	100.0	Pass
10	0.0999	0.0999	100.0	Pass
11	0.0723	0.0723	100.0	Pass
12	0.0883	0.0883	100.0	Pass
13	0.1412	0.1412	100.0	Pass
14	0.0576	0.0576	100.0	Pass
15	0.1156	0.1156	100.0	Pass
16	0.0504	0.0504	100.0	Pass
17	0.0717	0.0717	100.0	Pass
18	0.0484	0.0484	100.0	Pass
19	0.0578	0.0578	100.0	Pass
20	0.0631	0.0631	100.0	Pass
21	0.0632	0.0632	100.0	Pass
22	0.0343	0.0343	100.0	Pass
23	0.1778	0.1778	100.0	Pass
24	0.0471	0.0471	100.0	Pass
25	0.0785	0.0785	100.0	Pass
26	0.0468	0.0468	100.0	Pass
27	0.0422	0.0422	100.0	Pass
28	0.0436	0.0436	100.0	Pass
29	0.0575	0.0575	100.0	Pass
30	0.1251	0.1251	100.0	Pass
Jul1	0.0309	0.0309	100.0	Pass
2	0.0265	0.0265	100.0	Pass
3	0.0290	0.0290	100.0	Pass
4	0.0710	0.0710	100.0	Pass
5	0.0530	0.0530	100.0	Pass
6	0.0402	0.0402	100.0	Pass
7	0.0780	0.0780	100.0	Pass
8	0.0439	0.0439	100.0	Pass
9	0.0923	0.0923	100.0	Pass
10	0.0600	0.0600	100.0	Pass
11	0.1231	0.1231	100.0	Pass
12	0.0622	0.0622	100.0	Pass
13	0.0459	0.0459	100.0	Pass
14	0.0712	0.0712	100.0	Pass

15	0.0283	0.0283	100.0	Pass
16	0.0179	0.0179	100.0	Pass
17	0.0612	0.0612	100.0	Pass
18	0.0204	0.0204	100.0	Pass
19	0.0252	0.0252	100.0	Pass
20	0.0445	0.0445	100.0	Pass
21	0.0353	0.0353	100.0	Pass
22	0.0031	0.0031	100.0	Pass
23	0.0101	0.0101	100.0	Pass
24	0.0116	0.0116	100.0	Pass
25	0.0258	0.0258	100.0	Pass
26	0.0106	0.0106	100.0	Pass
27	0.0162	0.0162	100.0	Pass
28	0.0133	0.0133	100.0	Pass
29	0.0085	0.0085	100.0	Pass
30	0.0149	0.0149	100.0	Pass
31	0.0173	0.0173	100.0	Pass
Aug1	0.0710	0.0710	100.0	Pass
2	0.0245	0.0245	100.0	Pass
3	0.0092	0.0092	100.0	Pass
4	0.0093	0.0093	100.0	Pass
5	0.0807	0.0807	100.0	Pass
6	0.0539	0.0539	100.0	Pass
7	0.0193	0.0193	100.0	Pass
8	0.0197	0.0197	100.0	Pass
9	0.0014	0.0014	100.0	Pass
10	0.0103	0.0103	100.0	Pass
11	0.0517	0.0517	100.0	Pass
12	0.0442	0.0442	100.0	Pass
13	0.0557	0.0557	100.0	Pass
14	0.0341	0.0341	100.0	Pass
15	0.0306	0.0306	100.0	Pass
16	0.0261	0.0261	100.0	Pass
17	0.0511	0.0511	100.0	Pass
18	0.0988	0.0988	100.0	Pass
19	0.0274	0.0274	100.0	Pass
20	0.0766	0.0766	100.0	Pass
21	0.0706	0.0706	100.0	Pass
22	0.1376	0.1376	100.0	Pass
23	0.1294	0.1294	100.0	Pass
24	0.1125	0.1125	100.0	Pass
25	0.0455	0.0455	100.0	Pass
26	0.1330	0.1330	100.0	Pass
27	0.1358	0.1358	100.0	Pass
28	0.1363	0.1363	100.0	Pass
29	0.0857	0.0857	100.0	Pass
30	0.1381	0.1381	100.0	Pass
31	0.2196	0.2196	100.0	Pass
Sep1	0.0857	0.0857	100.0	Pass
2	0.0873	0.0873	100.0	Pass
3	0.0941	0.0941	100.0	Pass
4	0.1179	0.1179	100.0	Pass
5	0.1010	0.1010	100.0	Pass
6	0.0693	0.0693	100.0	Pass
7	0.1348	0.1348	100.0	Pass
8	0.0859	0.0859	100.0	Pass
9	0.2189	0.2189	100.0	Pass

10	0.0519	0.0519	100.0	Pass
11	0.0436	0.0436	100.0	Pass
12	0.1156	0.1156	100.0	Pass
13	0.2173	0.2173	100.0	Pass
14	0.1389	0.1389	100.0	Pass
15	0.2099	0.2099	100.0	Pass
16	0.2238	0.2238	100.0	Pass
17	0.2431	0.2431	100.0	Pass
18	0.2190	0.2190	100.0	Pass
19	0.2347	0.2347	100.0	Pass
20	0.1721	0.1721	100.0	Pass
21	0.2378	0.2378	100.0	Pass
22	0.1909	0.1909	100.0	Pass
23	0.1504	0.1504	100.0	Pass
24	0.1079	0.1079	100.0	Pass
25	0.1141	0.1141	100.0	Pass
26	0.1152	0.1152	100.0	Pass
27	0.1574	0.1574	100.0	Pass
28	0.1366	0.1366	100.0	Pass
29	0.1806	0.1806	100.0	Pass
30	0.1311	0.1311	100.0	Pass
Oct1	0.0921	0.0921	100.0	Pass
2	0.2319	0.2319	100.0	Pass
3	0.2074	0.2074	100.0	Pass
4	0.2540	0.2540	100.0	Pass
5	0.2700	0.2700	100.0	Pass
6	0.2983	0.2983	100.0	Pass
7	0.3821	0.3821	100.0	Pass
8	0.3118	0.3118	100.0	Pass
9	0.2425	0.2425	100.0	Pass
10	0.1982	0.1982	100.0	Pass
11	0.3737	0.3737	100.0	Pass
12	0.2523	0.2523	100.0	Pass
13	0.3507	0.3507	100.0	Pass
14	0.2017	0.2017	100.0	Pass
15	0.2373	0.2373	100.0	Pass
16	0.3199	0.3199	100.0	Pass
17	0.2925	0.2925	100.0	Pass
18	0.4683	0.4683	100.0	Pass
19	0.5776	0.5776	100.0	Pass
20	0.4990	0.4990	100.0	Pass
21	0.6026	0.6026	100.0	Pass
22	0.3578	0.3578	100.0	Pass
23	0.5866	0.5866	100.0	Pass
24	0.5155	0.5155	100.0	Pass
25	0.4618	0.4618	100.0	Pass
26	0.5583	0.5583	100.0	Pass
27	0.4758	0.4758	100.0	Pass
28	0.4427	0.4427	100.0	Pass
29	0.3749	0.3749	100.0	Pass
30	0.5515	0.5515	100.0	Pass
31	0.4673	0.4673	100.0	Pass
Nov1	0.5884	0.5884	100.0	Pass
2	0.7097	0.7097	100.0	Pass
3	0.5552	0.5552	100.0	Pass
4	0.5616	0.5616	100.0	Pass
5	0.6207	0.6207	100.0	Pass

6	0.5203	0.5203	100.0	Pass
7	0.4714	0.4714	100.0	Pass
8	0.6060	0.6060	100.0	Pass
9	0.7163	0.7163	100.0	Pass
10	0.6150	0.6150	100.0	Pass
11	0.6869	0.6869	100.0	Pass
12	0.6354	0.6354	100.0	Pass
13	0.4783	0.4783	100.0	Pass
14	0.5575	0.5575	100.0	Pass
15	0.6261	0.6261	100.0	Pass
16	0.6538	0.6538	100.0	Pass
17	0.5986	0.5986	100.0	Pass
18	0.8782	0.8782	100.0	Pass
19	0.7872	0.7872	100.0	Pass
20	0.5235	0.5235	100.0	Pass
21	0.8185	0.8185	100.0	Pass
22	0.9657	0.9657	100.0	Pass
23	0.7393	0.7393	100.0	Pass
24	0.8444	0.8444	100.0	Pass
25	0.5601	0.5601	100.0	Pass
26	0.4551	0.4551	100.0	Pass
27	0.5502	0.5502	100.0	Pass
28	0.5251	0.5251	100.0	Pass
29	0.8690	0.8690	100.0	Pass
30	0.6966	0.6966	100.0	Pass
Dec1	0.7681	0.7681	100.0	Pass
2	0.7449	0.7449	100.0	Pass
3	0.4795	0.4795	100.0	Pass
4	0.5300	0.5300	100.0	Pass
5	0.4558	0.4558	100.0	Pass
6	0.3949	0.3949	100.0	Pass
7	0.5672	0.5672	100.0	Pass
8	0.7125	0.7125	100.0	Pass
9	0.7081	0.7081	100.0	Pass
10	0.7645	0.7645	100.0	Pass
11	0.5591	0.5591	100.0	Pass
12	0.6045	0.6045	100.0	Pass
13	0.8968	0.8968	100.0	Pass
14	0.6255	0.6255	100.0	Pass
15	0.8149	0.8149	100.0	Pass
16	0.5517	0.5517	100.0	Pass
17	0.6560	0.6560	100.0	Pass
18	0.5402	0.5402	100.0	Pass
19	0.6326	0.6326	100.0	Pass
20	0.6208	0.6208	100.0	Pass
21	0.6834	0.6834	100.0	Pass
22	0.6723	0.6723	100.0	Pass
23	0.7300	0.7300	100.0	Pass
24	0.8080	0.8080	100.0	Pass
25	0.7030	0.7030	100.0	Pass
26	0.6411	0.6411	100.0	Pass
27	0.4315	0.4315	100.0	Pass
28	0.6786	0.6786	100.0	Pass
29	0.4500	0.4500	100.0	Pass
30	0.4684	0.4684	100.0	Pass
31	0.7879	0.7879	100.0	Pass

Perlnd and Implnd Changes

No changes have been made.

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Adams Street Basin WWHM Modeling Report (4)

WWHM2012 PROJECT REPORT

Project Name: Adams ST basin 4
Site Name: Adams Street Basin 4
Site Address:
City :
Report Date: 8/29/2019
Gage : Montesano
Data Start : 1955/10/01
Data End : 2009/09/30
Precip Scale: 1.00
Version : 2013/09/11

Low Flow Threshold for POC 1 : 50 Percent of the 2 Year

High Flow Threshold for POC 1: 50 year

Low Flow Threshold for POC 2 : 50 Percent of the 2 Year

High Flow Threshold for POC 2: 50 year

Low Flow Threshold for POC 3 : 50 Percent of the 2 Year

High Flow Threshold for POC 3: 50 year

Low Flow Threshold for POC 4 : 50 Percent of the 2 Year

High Flow Threshold for POC 4: 50 year

Low Flow Threshold for POC 5 : 50 Percent of the 2 Year

High Flow Threshold for POC 5: 50 year

Low Flow Threshold for POC 6 : 50 Percent of the 2 Year

High Flow Threshold for POC 6: 50 year

Low Flow Threshold for POC 7 : 50 Percent of the 2 Year

High Flow Threshold for POC 7: 50 year

Low Flow Threshold for POC 8 : 50 Percent of the 2 Year

High Flow Threshold for POC 8: 50 year

PREDEVELOPED LAND USE

Name : NODE-22

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.228
Pervious Total	0.228
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	3.587
Impervious Total	3.587
Basin Total	3.815

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-70

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.288
Pervious Total	0.288
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.237
Impervious Total	0.237
Basin Total	0.525

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-24

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.361
Pervious Total	0.361
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.372
Impervious Total	0.372
Basin Total	0.733

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-25

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.086
Pervious Total	0.086
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.407
Impervious Total	0.407
Basin Total	0.493

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-60

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.491
Pervious Total	0.491
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.187
Impervious Total	1.187
Basin Total	1.678

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-20

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.688
Impervious Total	0.688
Basin Total	0.688

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-77

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.821

Pervious Total	0.821
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.941
Impervious Total	1.941
Basin Total	2.762

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-76
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.486
Pervious Total	0.486
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.631
Impervious Total	2.631
Basin Total	3.117

Element Flows To:		
Surface	Interflow	Groundwater

MITIGATED LAND USE

Name : NODE-22
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.228
Pervious Total	0.228

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	3.587
Impervious Total	3.587
Basin Total	3.815

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-70
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.288
Pervious Total	0.288

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.237
Impervious Total	0.237
Basin Total	0.525

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-24
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.361
Pervious Total	0.361

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.372
Impervious Total	0.372

Basin Total 0.733

Element Flows To:
Surface Interflow Groundwater

Name : NODE-25

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.086
Pervious Total	0.086
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.407
Impervious Total	0.407
Basin Total	0.493

Element Flows To:
Surface Interflow Groundwater

Name : SD-60

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.491
Pervious Total	0.491
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.187
Impervious Total	1.187
Basin Total	1.678

Element Flows To:
Surface Interflow Groundwater

Name : NODE-20

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
Pervious Total	0
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.688
Impervious Total	0.688
Basin Total	0.688

Element Flows To:
Surface Interflow Groundwater

Name : SD-77

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.821
Pervious Total	0.821
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	1.941
Impervious Total	1.941
Basin Total	2.762

Element Flows To:
Surface Interflow Groundwater

Name : SD-76

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.486
Pervious Total	0.486
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	2.631
Impervious Total	2.631
Basin Total	3.117

Element Flows To:	Interflow	Groundwater
Surface		

ANALYSIS RESULTS

Stream Protection Duration

Predeveloped Landuse Totals for POC #1

Total Pervious Area:0.228

Total Impervious Area:3.587

Mitigated Landuse Totals for POC #1

Total Pervious Area:0.228

Total Impervious Area:3.587

Flow Frequency Return Periods for Predeveloped. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.435703
5 year	2.879028
10 year	3.118015
25 year	3.375796
50 year	3.54292
100 year	3.693055

Flow Frequency Return Periods for Mitigated. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	2.435703
5 year	2.879028

10 year	3.118015
25 year	3.375796
50 year	3.54292
100 year	3.693055

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #1

Year	Predeveloped	Mitigated
1956	2.536	2.536
1957	3.153	3.153
1958	2.440	2.440
1959	2.447	2.447
1960	2.532	2.532
1961	2.096	2.096
1962	3.320	3.320
1963	3.040	3.040
1964	2.670	2.670
1965	2.634	2.634
1966	2.574	2.574
1967	1.678	1.678
1968	2.482	2.482
1969	2.348	2.348
1970	2.269	2.269
1971	3.409	3.409
1972	2.867	2.867
1973	2.687	2.687
1974	2.573	2.573
1975	2.307	2.307
1976	2.807	2.807
1977	2.053	2.053
1978	3.526	3.526
1979	2.220	2.220
1980	2.062	2.062
1981	2.613	2.613
1982	3.022	3.022
1983	2.378	2.378
1984	2.220	2.220
1985	1.722	1.722
1986	2.659	2.659
1987	1.867	1.867
1988	2.831	2.831
1989	2.368	2.368
1990	3.061	3.061
1991	2.080	2.080
1992	1.610	1.610
1993	1.784	1.784
1994	2.282	2.282
1995	2.268	2.268
1996	2.756	2.756
1997	2.650	2.650
1998	1.680	1.680
1999	2.085	2.085
2000	1.928	1.928
2001	1.871	1.871
2002	2.974	2.974
2003	3.255	3.255

2004	3.044	3.044
2005	2.418	2.418
2006	2.453	2.453
2007	2.876	2.876
2008	1.539	1.539
2009	1.466	1.466

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	3.5261	3.5261
2	3.4090	3.4090
3	3.3202	3.3202
4	3.2547	3.2547
5	3.1528	3.1528
6	3.0607	3.0607
7	3.0441	3.0441
8	3.0399	3.0399
9	3.0224	3.0224
10	2.9741	2.9741
11	2.8757	2.8757
12	2.8670	2.8670
13	2.8309	2.8309
14	2.8066	2.8066
15	2.7556	2.7556
16	2.6874	2.6874
17	2.6700	2.6700
18	2.6592	2.6592
19	2.6500	2.6500
20	2.6341	2.6341
21	2.6132	2.6132
22	2.5738	2.5738
23	2.5734	2.5734
24	2.5362	2.5362
25	2.5324	2.5324
26	2.4817	2.4817
27	2.4529	2.4529
28	2.4469	2.4469
29	2.4396	2.4396
30	2.4177	2.4177
31	2.3781	2.3781
32	2.3676	2.3676
33	2.3476	2.3476
34	2.3066	2.3066
35	2.2822	2.2822
36	2.2689	2.2689
37	2.2684	2.2684
38	2.2204	2.2204
39	2.2202	2.2202
40	2.0961	2.0961
41	2.0848	2.0848
42	2.0795	2.0795
43	2.0620	2.0620
44	2.0528	2.0528
45	1.9280	1.9280
46	1.8706	1.8706

47	1.8666	1.8666
48	1.7839	1.7839
49	1.7221	1.7221
50	1.6803	1.6803
51	1.6785	1.6785
52	1.6101	1.6101
53	1.5394	1.5394
54	1.4663	1.4663

Stream Protection Duration

POC #1

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

1.2179	1175	1175	100	Pass
1.2413	1102	1102	100	Pass
1.2648	1033	1033	100	Pass
1.2883	953	953	100	Pass
1.3118	892	892	100	Pass
1.3353	832	832	100	Pass
1.3588	769	769	100	Pass
1.3823	709	709	100	Pass
1.4057	664	664	100	Pass
1.4292	613	613	100	Pass
1.4527	565	565	100	Pass
1.4762	524	524	100	Pass
1.4997	490	490	100	Pass
1.5232	457	457	100	Pass
1.5466	417	417	100	Pass
1.5701	391	391	100	Pass
1.5936	361	361	100	Pass
1.6171	342	342	100	Pass
1.6406	319	319	100	Pass
1.6641	302	302	100	Pass
1.6876	284	284	100	Pass
1.7110	264	264	100	Pass
1.7345	253	253	100	Pass
1.7580	242	242	100	Pass
1.7815	227	227	100	Pass
1.8050	211	211	100	Pass
1.8285	202	202	100	Pass
1.8520	191	191	100	Pass
1.8754	179	179	100	Pass
1.8989	175	175	100	Pass
1.9224	163	163	100	Pass
1.9459	156	156	100	Pass
1.9694	150	150	100	Pass
1.9929	140	140	100	Pass
2.0164	134	134	100	Pass
2.0398	122	122	100	Pass
2.0633	114	114	100	Pass
2.0868	107	107	100	Pass
2.1103	102	102	100	Pass
2.1338	99	99	100	Pass

2.1573	95	95	100	Pass
2.1808	89	89	100	Pass
2.2042	84	84	100	Pass
2.2277	79	79	100	Pass
2.2512	76	76	100	Pass
2.2747	72	72	100	Pass
2.2982	68	68	100	Pass
2.3217	64	64	100	Pass
2.3452	61	61	100	Pass
2.3686	56	56	100	Pass
2.3921	54	54	100	Pass
2.4156	52	52	100	Pass
2.4391	51	51	100	Pass
2.4626	44	44	100	Pass
2.4861	41	41	100	Pass
2.5096	41	41	100	Pass
2.5330	39	39	100	Pass
2.5565	37	37	100	Pass
2.5800	35	35	100	Pass
2.6035	33	33	100	Pass
2.6270	32	32	100	Pass
2.6505	30	30	100	Pass
2.6740	26	26	100	Pass
2.6974	25	25	100	Pass
2.7209	24	24	100	Pass
2.7444	24	24	100	Pass
2.7679	23	23	100	Pass
2.7914	23	23	100	Pass
2.8149	20	20	100	Pass
2.8384	18	18	100	Pass
2.8618	17	17	100	Pass
2.8853	14	14	100	Pass
2.9088	13	13	100	Pass
2.9323	13	13	100	Pass
2.9558	13	13	100	Pass
2.9793	11	11	100	Pass
3.0028	11	11	100	Pass
3.0262	10	10	100	Pass
3.0497	8	8	100	Pass
3.0732	7	7	100	Pass
3.0967	6	6	100	Pass
3.1202	6	6	100	Pass
3.1437	6	6	100	Pass
3.1672	5	5	100	Pass
3.1906	5	5	100	Pass
3.2141	4	4	100	Pass
3.2376	4	4	100	Pass
3.2611	3	3	100	Pass
3.2846	3	3	100	Pass
3.3081	3	3	100	Pass
3.3316	2	2	100	Pass
3.3550	2	2	100	Pass
3.3785	2	2	100	Pass
3.4020	2	2	100	Pass
3.4255	1	1	100	Pass
3.4490	1	1	100	Pass
3.4725	1	1	100	Pass

3.4959	1	1	100	Pass
3.5194	1	1	100	Pass
3.5429	0	0	100	Pass

Water Quality BMP Flow and Volume for POC #1
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 1
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	150.1603	150.1603	100.0	Pass
Feb	114.6190	114.6190	100.0	Pass
Mar	101.6743	101.6743	100.0	Pass
Apr	57.1189	57.1189	100.0	Pass
May	31.3706	31.3706	100.0	Pass
Jun	21.0504	21.0504	100.0	Pass
Jul	10.5503	10.5503	100.0	Pass
Aug	15.9545	15.9545	100.0	Pass
Sep	35.7646	35.7646	100.0	Pass
Oct	86.1802	86.1802	100.0	Pass
Nov	143.7711	143.7711	100.0	Pass
Dec	144.8645	144.8645	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	4.8316	4.8316	100.0	Pass
2	3.7272	3.7272	100.0	Pass
3	4.8698	4.8698	100.0	Pass
4	5.7924	5.7924	100.0	Pass
5	4.0529	4.0529	100.0	Pass
6	6.3470	6.3470	100.0	Pass
7	4.7371	4.7371	100.0	Pass
8	4.8022	4.8022	100.0	Pass
9	5.1950	5.1950	100.0	Pass
10	4.9777	4.9777	100.0	Pass
11	6.1730	6.1730	100.0	Pass
12	4.7230	4.7230	100.0	Pass
13	6.1012	6.1012	100.0	Pass
14	6.0410	6.0410	100.0	Pass
15	5.4659	5.4659	100.0	Pass
16	4.3786	4.3786	100.0	Pass
17	4.2294	4.2294	100.0	Pass
18	3.7279	3.7279	100.0	Pass
19	3.7821	3.7821	100.0	Pass
20	2.3843	2.3843	100.0	Pass
21	5.0088	5.0088	100.0	Pass
22	5.9404	5.9404	100.0	Pass
23	6.5867	6.5867	100.0	Pass
24	4.3172	4.3172	100.0	Pass
25	3.6502	3.6502	100.0	Pass

	26	3.3000	3.3000	100.0	Pass
	27	4.3341	4.3341	100.0	Pass
	28	5.5614	5.5614	100.0	Pass
	29	4.1210	4.1210	100.0	Pass
	30	4.9884	4.9884	100.0	Pass
	31	2.8361	2.8361	100.0	Pass
Feb	1	3.3470	3.3470	100.0	Pass
	2	3.0812	3.0812	100.0	Pass
	3	2.7603	2.7603	100.0	Pass
	4	2.5560	2.5560	100.0	Pass
	5	4.9278	4.9278	100.0	Pass
	6	2.2887	2.2887	100.0	Pass
	7	3.5563	3.5563	100.0	Pass
	8	2.6287	2.6287	100.0	Pass
	9	3.2694	3.2694	100.0	Pass
	10	4.3980	4.3980	100.0	Pass
	11	5.7526	5.7526	100.0	Pass
	12	4.3504	4.3504	100.0	Pass
	13	4.7613	4.7613	100.0	Pass
	14	6.8062	6.8062	100.0	Pass
	15	4.7239	4.7239	100.0	Pass
	16	6.4041	6.4041	100.0	Pass
	17	5.5315	5.5315	100.0	Pass
	18	4.2296	4.2296	100.0	Pass
	19	3.7031	3.7031	100.0	Pass
	20	3.6012	3.6012	100.0	Pass
	21	2.9475	2.9475	100.0	Pass
	22	4.4709	4.4709	100.0	Pass
	23	4.2067	4.2067	100.0	Pass
	24	4.6460	4.6460	100.0	Pass
	25	4.0945	4.0945	100.0	Pass
	26	4.0163	4.0163	100.0	Pass
	27	3.4940	3.4940	100.0	Pass
	28	4.8033	4.8033	100.0	Pass
	29	3.3956	3.3956	100.0	Pass
Mar	1	3.3666	3.3666	100.0	Pass
	2	2.7064	2.7064	100.0	Pass
	3	3.9729	3.9729	100.0	Pass
	4	4.1294	4.1294	100.0	Pass
	5	3.1875	3.1875	100.0	Pass
	6	4.0741	4.0741	100.0	Pass
	7	4.0328	4.0328	100.0	Pass
	8	3.8708	3.8708	100.0	Pass
	9	3.8807	3.8807	100.0	Pass
	10	3.3354	3.3354	100.0	Pass
	11	3.6650	3.6650	100.0	Pass
	12	3.2275	3.2275	100.0	Pass
	13	3.9715	3.9715	100.0	Pass
	14	3.0751	3.0751	100.0	Pass
	15	2.4790	2.4790	100.0	Pass
	16	2.4292	2.4292	100.0	Pass
	17	3.3558	3.3558	100.0	Pass
	18	1.9614	1.9614	100.0	Pass
	19	3.1136	3.1136	100.0	Pass
	20	2.4534	2.4534	100.0	Pass
	21	4.2888	4.2888	100.0	Pass
	22	4.7719	4.7719	100.0	Pass

23	3.8064	3.8064	100.0	Pass
24	2.3193	2.3193	100.0	Pass
25	3.8524	3.8524	100.0	Pass
26	2.6901	2.6901	100.0	Pass
27	2.6365	2.6365	100.0	Pass
28	2.9572	2.9572	100.0	Pass
29	2.7111	2.7111	100.0	Pass
30	1.9699	1.9699	100.0	Pass
31	1.5863	1.5863	100.0	Pass
Apr1	1.7474	1.7474	100.0	Pass
2	1.9988	1.9988	100.0	Pass
3	2.8221	2.8221	100.0	Pass
4	2.4882	2.4882	100.0	Pass
5	2.6456	2.6456	100.0	Pass
6	1.3378	1.3378	100.0	Pass
7	2.4259	2.4259	100.0	Pass
8	2.4006	2.4006	100.0	Pass
9	2.1334	2.1334	100.0	Pass
10	2.0809	2.0809	100.0	Pass
11	2.9848	2.9848	100.0	Pass
12	2.4690	2.4690	100.0	Pass
13	2.6074	2.6074	100.0	Pass
14	2.1698	2.1698	100.0	Pass
15	2.3387	2.3387	100.0	Pass
16	1.2096	1.2096	100.0	Pass
17	1.8135	1.8135	100.0	Pass
18	2.1087	2.1087	100.0	Pass
19	1.0439	1.0439	100.0	Pass
20	1.0641	1.0641	100.0	Pass
21	1.9049	1.9049	100.0	Pass
22	1.5523	1.5523	100.0	Pass
23	1.3290	1.3290	100.0	Pass
24	1.0609	1.0609	100.0	Pass
25	1.3319	1.3319	100.0	Pass
26	2.2449	2.2449	100.0	Pass
27	1.6828	1.6828	100.0	Pass
28	1.7624	1.7624	100.0	Pass
29	0.7825	0.7825	100.0	Pass
30	1.1549	1.1549	100.0	Pass
May1	1.8585	1.8585	100.0	Pass
2	1.2785	1.2785	100.0	Pass
3	1.4045	1.4045	100.0	Pass
4	1.0728	1.0728	100.0	Pass
5	1.0493	1.0493	100.0	Pass
6	0.8877	0.8877	100.0	Pass
7	1.2115	1.2115	100.0	Pass
8	0.7016	0.7016	100.0	Pass
9	1.0438	1.0438	100.0	Pass
10	0.8248	0.8248	100.0	Pass
11	0.7807	0.7807	100.0	Pass
12	1.1299	1.1299	100.0	Pass
13	1.2150	1.2150	100.0	Pass
14	1.1883	1.1883	100.0	Pass
15	0.7424	0.7424	100.0	Pass
16	1.0306	1.0306	100.0	Pass
17	0.8201	0.8201	100.0	Pass
18	1.4039	1.4039	100.0	Pass

19	0.6852	0.6852	100.0	Pass
20	0.6952	0.6952	100.0	Pass
21	0.7102	0.7102	100.0	Pass
22	0.8986	0.8986	100.0	Pass
23	0.7683	0.7683	100.0	Pass
24	0.8059	0.8059	100.0	Pass
25	0.6629	0.6629	100.0	Pass
26	1.2037	1.2037	100.0	Pass
27	0.9144	0.9144	100.0	Pass
28	1.0043	1.0043	100.0	Pass
29	1.3740	1.3740	100.0	Pass
30	0.8535	0.8535	100.0	Pass
31	0.9381	0.9381	100.0	Pass
Jun1	0.6788	0.6788	100.0	Pass
2	1.2259	1.2259	100.0	Pass
3	1.1505	1.1505	100.0	Pass
4	0.7971	0.7971	100.0	Pass
5	1.3917	1.3917	100.0	Pass
6	0.4634	0.4634	100.0	Pass
7	0.7731	0.7731	100.0	Pass
8	1.1192	1.1192	100.0	Pass
9	0.8240	0.8240	100.0	Pass
10	0.7980	0.7980	100.0	Pass
11	0.5648	0.5648	100.0	Pass
12	0.7170	0.7170	100.0	Pass
13	1.1519	1.1519	100.0	Pass
14	0.4295	0.4295	100.0	Pass
15	0.9320	0.9320	100.0	Pass
16	0.3706	0.3706	100.0	Pass
17	0.5676	0.5676	100.0	Pass
18	0.3603	0.3603	100.0	Pass
19	0.4663	0.4663	100.0	Pass
20	0.5194	0.5194	100.0	Pass
21	0.5098	0.5098	100.0	Pass
22	0.2634	0.2634	100.0	Pass
23	1.5011	1.5011	100.0	Pass
24	0.3362	0.3362	100.0	Pass
25	0.6351	0.6351	100.0	Pass
26	0.3738	0.3738	100.0	Pass
27	0.3475	0.3475	100.0	Pass
28	0.3623	0.3623	100.0	Pass
29	0.4851	0.4851	100.0	Pass
30	1.0446	1.0446	100.0	Pass
Jul1	0.2296	0.2296	100.0	Pass
2	0.2097	0.2097	100.0	Pass
3	0.2401	0.2401	100.0	Pass
4	0.6119	0.6119	100.0	Pass
5	0.4503	0.4503	100.0	Pass
6	0.3394	0.3394	100.0	Pass
7	0.6519	0.6519	100.0	Pass
8	0.3442	0.3442	100.0	Pass
9	0.7715	0.7715	100.0	Pass
10	0.4845	0.4845	100.0	Pass
11	0.9921	0.9921	100.0	Pass
12	0.4397	0.4397	100.0	Pass
13	0.3377	0.3377	100.0	Pass
14	0.5756	0.5756	100.0	Pass

15	0.2153	0.2153	100.0	Pass
16	0.1374	0.1374	100.0	Pass
17	0.5077	0.5077	100.0	Pass
18	0.1485	0.1485	100.0	Pass
19	0.2011	0.2011	100.0	Pass
20	0.3734	0.3734	100.0	Pass
21	0.2846	0.2846	100.0	Pass
22	0.0122	0.0122	100.0	Pass
23	0.0805	0.0805	100.0	Pass
24	0.0974	0.0974	100.0	Pass
25	0.2237	0.2237	100.0	Pass
26	0.0916	0.0916	100.0	Pass
27	0.1403	0.1403	100.0	Pass
28	0.1144	0.1144	100.0	Pass
29	0.0719	0.0719	100.0	Pass
30	0.1282	0.1282	100.0	Pass
31	0.1492	0.1492	100.0	Pass
Aug1	0.6129	0.6129	100.0	Pass
2	0.1978	0.1978	100.0	Pass
3	0.0678	0.0678	100.0	Pass
4	0.0736	0.0736	100.0	Pass
5	0.6879	0.6879	100.0	Pass
6	0.4460	0.4460	100.0	Pass
7	0.1500	0.1500	100.0	Pass
8	0.1624	0.1624	100.0	Pass
9	0.0074	0.0074	100.0	Pass
10	0.0869	0.0869	100.0	Pass
11	0.4468	0.4468	100.0	Pass
12	0.3780	0.3780	100.0	Pass
13	0.4742	0.4742	100.0	Pass
14	0.2786	0.2786	100.0	Pass
15	0.2432	0.2432	100.0	Pass
16	0.2138	0.2138	100.0	Pass
17	0.4386	0.4386	100.0	Pass
18	0.8504	0.8504	100.0	Pass
19	0.2124	0.2124	100.0	Pass
20	0.6531	0.6531	100.0	Pass
21	0.5873	0.5873	100.0	Pass
22	1.1562	1.1562	100.0	Pass
23	1.0579	1.0579	100.0	Pass
24	0.8709	0.8709	100.0	Pass
25	0.3223	0.3223	100.0	Pass
26	1.1057	1.1057	100.0	Pass
27	1.1084	1.1084	100.0	Pass
28	1.0921	1.0921	100.0	Pass
29	0.6760	0.6760	100.0	Pass
30	1.1476	1.1476	100.0	Pass
31	1.8048	1.8048	100.0	Pass
Sep1	0.6213	0.6213	100.0	Pass
2	0.6713	0.6713	100.0	Pass
3	0.7473	0.7473	100.0	Pass
4	0.9637	0.9637	100.0	Pass
5	0.8161	0.8161	100.0	Pass
6	0.5477	0.5477	100.0	Pass
7	1.1295	1.1295	100.0	Pass
8	0.6885	0.6885	100.0	Pass
9	1.8410	1.8410	100.0	Pass

10	0.3884	0.3884	100.0	Pass
11	0.3435	0.3435	100.0	Pass
12	0.9700	0.9700	100.0	Pass
13	1.8129	1.8129	100.0	Pass
14	1.1086	1.1086	100.0	Pass
15	1.7183	1.7183	100.0	Pass
16	1.7721	1.7721	100.0	Pass
17	1.9612	1.9612	100.0	Pass
18	1.7570	1.7570	100.0	Pass
19	1.8550	1.8550	100.0	Pass
20	1.3042	1.3042	100.0	Pass
21	1.8438	1.8438	100.0	Pass
22	1.4639	1.4639	100.0	Pass
23	1.1577	1.1577	100.0	Pass
24	0.8293	0.8293	100.0	Pass
25	0.9121	0.9121	100.0	Pass
26	0.9221	0.9221	100.0	Pass
27	1.2504	1.2504	100.0	Pass
28	1.0949	1.0949	100.0	Pass
29	1.4721	1.4721	100.0	Pass
30	1.0260	1.0260	100.0	Pass
Oct1	0.7033	0.7033	100.0	Pass
2	1.9260	1.9260	100.0	Pass
3	1.6911	1.6911	100.0	Pass
4	2.0467	2.0467	100.0	Pass
5	2.1637	2.1637	100.0	Pass
6	2.4012	2.4012	100.0	Pass
7	3.0581	3.0581	100.0	Pass
8	2.4296	2.4296	100.0	Pass
9	1.8588	1.8588	100.0	Pass
10	1.5110	1.5110	100.0	Pass
11	3.0267	3.0267	100.0	Pass
12	1.9560	1.9560	100.0	Pass
13	2.8182	2.8182	100.0	Pass
14	1.5019	1.5019	100.0	Pass
15	1.8402	1.8402	100.0	Pass
16	2.5037	2.5037	100.0	Pass
17	2.2676	2.2676	100.0	Pass
18	3.6866	3.6866	100.0	Pass
19	4.5025	4.5025	100.0	Pass
20	3.8553	3.8553	100.0	Pass
21	4.6728	4.6728	100.0	Pass
22	2.5909	2.5909	100.0	Pass
23	4.5416	4.5416	100.0	Pass
24	3.9233	3.9233	100.0	Pass
25	3.4784	3.4784	100.0	Pass
26	4.2872	4.2872	100.0	Pass
27	3.5572	3.5572	100.0	Pass
28	3.3191	3.3191	100.0	Pass
29	2.7672	2.7672	100.0	Pass
30	4.2800	4.2800	100.0	Pass
31	3.5017	3.5017	100.0	Pass
Nov1	4.4771	4.4771	100.0	Pass
2	5.5196	5.5196	100.0	Pass
3	4.0927	4.0927	100.0	Pass
4	4.2352	4.2352	100.0	Pass
5	4.6924	4.6924	100.0	Pass

6	3.8305	3.8305	100.0	Pass
7	3.4786	3.4786	100.0	Pass
8	4.6479	4.6479	100.0	Pass
9	5.4764	5.4764	100.0	Pass
10	4.5998	4.5998	100.0	Pass
11	5.1911	5.1911	100.0	Pass
12	4.7927	4.7927	100.0	Pass
13	3.4344	3.4344	100.0	Pass
14	4.1889	4.1889	100.0	Pass
15	4.7344	4.7344	100.0	Pass
16	4.9515	4.9515	100.0	Pass
17	4.4619	4.4619	100.0	Pass
18	6.7214	6.7214	100.0	Pass
19	5.8710	5.8710	100.0	Pass
20	3.7169	3.7169	100.0	Pass
21	6.1963	6.1963	100.0	Pass
22	7.4169	7.4169	100.0	Pass
23	5.3961	5.3961	100.0	Pass
24	6.2965	6.2965	100.0	Pass
25	3.9399	3.9399	100.0	Pass
26	3.2030	3.2030	100.0	Pass
27	4.1100	4.1100	100.0	Pass
28	3.9103	3.9103	100.0	Pass
29	6.6972	6.6972	100.0	Pass
30	5.1325	5.1325	100.0	Pass
Dec1	5.7507	5.7507	100.0	Pass
2	5.4934	5.4934	100.0	Pass
3	3.3716	3.3716	100.0	Pass
4	3.9017	3.9017	100.0	Pass
5	3.2839	3.2839	100.0	Pass
6	2.8854	2.8854	100.0	Pass
7	4.3313	4.3313	100.0	Pass
8	5.4524	5.4524	100.0	Pass
9	5.3004	5.3004	100.0	Pass
10	5.6937	5.6937	100.0	Pass
11	4.0480	4.0480	100.0	Pass
12	4.4745	4.4745	100.0	Pass
13	6.8831	6.8831	100.0	Pass
14	4.4887	4.4887	100.0	Pass
15	6.1491	6.1491	100.0	Pass
16	3.9095	3.9095	100.0	Pass
17	4.8717	4.8717	100.0	Pass
18	3.9326	3.9326	100.0	Pass
19	4.7680	4.7680	100.0	Pass
20	4.5910	4.5910	100.0	Pass
21	5.0534	5.0534	100.0	Pass
22	4.9927	4.9927	100.0	Pass
23	5.4535	5.4535	100.0	Pass
24	6.1017	6.1017	100.0	Pass
25	5.1241	5.1241	100.0	Pass
26	4.6486	4.6486	100.0	Pass
27	3.0347	3.0347	100.0	Pass
28	5.1322	5.1322	100.0	Pass
29	3.1829	3.1829	100.0	Pass
30	3.4390	3.4390	100.0	Pass
31	6.0269	6.0269	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #2

Total Pervious Area:0.288

Total Impervious Area:0.237

Mitigated Landuse Totals for POC #2

Total Pervious Area:0.288

Total Impervious Area:0.237

Flow Frequency Return Periods for Predeveloped. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.250638
5 year	0.313642
10 year	0.349041
25 year	0.388274
50 year	0.414266
100 year	0.437976

Flow Frequency Return Periods for Mitigated. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.250638
5 year	0.313642
10 year	0.349041
25 year	0.388274
50 year	0.414266
100 year	0.437976

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #2

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.295	0.295
1957	0.334	0.334
1958	0.239	0.239
1959	0.276	0.276
1960	0.292	0.292
1961	0.198	0.198
1962	0.386	0.386
1963	0.344	0.344
1964	0.273	0.273
1965	0.286	0.286
1966	0.295	0.295
1967	0.160	0.160
1968	0.271	0.271
1969	0.271	0.271
1970	0.212	0.212
1971	0.388	0.388
1972	0.340	0.340
1973	0.280	0.280

1974	0.298	0.298
1975	0.246	0.246
1976	0.309	0.309
1977	0.208	0.208
1978	0.372	0.372
1979	0.240	0.240
1980	0.214	0.214
1981	0.268	0.268
1982	0.307	0.307
1983	0.245	0.245
1984	0.241	0.241
1985	0.144	0.144
1986	0.286	0.286
1987	0.194	0.194
1988	0.306	0.306
1989	0.243	0.243
1990	0.350	0.350
1991	0.204	0.204
1992	0.150	0.150
1993	0.159	0.159
1994	0.235	0.235
1995	0.176	0.176
1996	0.225	0.225
1997	0.264	0.264
1998	0.154	0.154
1999	0.211	0.211
2000	0.195	0.195
2001	0.164	0.164
2002	0.209	0.209
2003	0.381	0.381
2004	0.339	0.339
2005	0.256	0.256
2006	0.268	0.268
2007	0.325	0.325
2008	0.140	0.140
2009	0.127	0.127

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	0.3885	0.3885
2	0.3862	0.3862
3	0.3815	0.3815
4	0.3725	0.3725
5	0.3498	0.3498
6	0.3439	0.3439
7	0.3396	0.3396
8	0.3392	0.3392
9	0.3340	0.3340
10	0.3254	0.3254
11	0.3094	0.3094
12	0.3072	0.3072
13	0.3061	0.3061
14	0.2977	0.2977
15	0.2952	0.2952
16	0.2952	0.2952

17	0.2921	0.2921
18	0.2861	0.2861
19	0.2860	0.2860
20	0.2798	0.2798
21	0.2755	0.2755
22	0.2730	0.2730
23	0.2714	0.2714
24	0.2706	0.2706
25	0.2679	0.2679
26	0.2678	0.2678
27	0.2641	0.2641
28	0.2558	0.2558
29	0.2464	0.2464
30	0.2450	0.2450
31	0.2429	0.2429
32	0.2409	0.2409
33	0.2395	0.2395
34	0.2394	0.2394
35	0.2353	0.2353
36	0.2252	0.2252
37	0.2142	0.2142
38	0.2116	0.2116
39	0.2108	0.2108
40	0.2085	0.2085
41	0.2078	0.2078
42	0.2036	0.2036
43	0.1978	0.1978
44	0.1946	0.1946
45	0.1942	0.1942
46	0.1762	0.1762
47	0.1644	0.1644
48	0.1601	0.1601
49	0.1589	0.1589
50	0.1542	0.1542
51	0.1505	0.1505
52	0.1438	0.1438
53	0.1397	0.1397
54	0.1266	0.1266

Stream Protection Duration

POC #2

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1253	754	754	100	Pass
0.1282	694	694	100	Pass
0.1312	654	654	100	Pass
0.1341	609	609	100	Pass
0.1370	575	575	100	Pass
0.1399	539	539	100	Pass
0.1428	498	498	100	Pass
0.1457	455	455	100	Pass
0.1487	417	417	100	Pass
0.1516	383	383	100	Pass

0.1545	361	361	100	Pass
0.1574	349	349	100	Pass
0.1603	328	328	100	Pass
0.1633	309	309	100	Pass
0.1662	281	281	100	Pass
0.1691	251	251	100	Pass
0.1720	236	236	100	Pass
0.1749	225	225	100	Pass
0.1779	213	213	100	Pass
0.1808	202	202	100	Pass
0.1837	192	192	100	Pass
0.1866	183	183	100	Pass
0.1895	176	176	100	Pass
0.1924	164	164	100	Pass
0.1954	153	153	100	Pass
0.1983	145	145	100	Pass
0.2012	141	141	100	Pass
0.2041	128	128	100	Pass
0.2070	125	125	100	Pass
0.2100	121	121	100	Pass
0.2129	112	112	100	Pass
0.2158	107	107	100	Pass
0.2187	101	101	100	Pass
0.2216	98	98	100	Pass
0.2246	92	92	100	Pass
0.2275	87	87	100	Pass
0.2304	84	84	100	Pass
0.2333	78	78	100	Pass
0.2362	76	76	100	Pass
0.2391	71	71	100	Pass
0.2421	66	66	100	Pass
0.2450	64	64	100	Pass
0.2479	59	59	100	Pass
0.2508	58	58	100	Pass
0.2537	56	56	100	Pass
0.2567	51	51	100	Pass
0.2596	50	50	100	Pass
0.2625	48	48	100	Pass
0.2654	47	47	100	Pass
0.2683	44	44	100	Pass
0.2713	42	42	100	Pass
0.2742	39	39	100	Pass
0.2771	37	37	100	Pass
0.2800	34	34	100	Pass
0.2829	32	32	100	Pass
0.2858	32	32	100	Pass
0.2888	30	30	100	Pass
0.2917	29	29	100	Pass
0.2946	27	27	100	Pass
0.2975	25	25	100	Pass
0.3004	22	22	100	Pass
0.3034	21	21	100	Pass
0.3063	21	21	100	Pass
0.3092	17	17	100	Pass
0.3121	15	15	100	Pass
0.3150	14	14	100	Pass
0.3180	14	14	100	Pass

0.3209	13	13	100	Pass
0.3238	12	12	100	Pass
0.3267	11	11	100	Pass
0.3296	11	11	100	Pass
0.3325	11	11	100	Pass
0.3355	10	10	100	Pass
0.3384	10	10	100	Pass
0.3413	8	8	100	Pass
0.3442	7	7	100	Pass
0.3471	7	7	100	Pass
0.3501	6	6	100	Pass
0.3530	6	6	100	Pass
0.3559	6	6	100	Pass
0.3588	6	6	100	Pass
0.3617	6	6	100	Pass
0.3646	6	6	100	Pass
0.3676	5	5	100	Pass
0.3705	4	4	100	Pass
0.3734	3	3	100	Pass
0.3763	3	3	100	Pass
0.3792	3	3	100	Pass
0.3822	2	2	100	Pass
0.3851	2	2	100	Pass
0.3880	1	1	100	Pass
0.3909	0	0	100	Pass
0.3938	0	0	0	Pass
0.3968	0	0	0	Pass
0.3997	0	0	0	Pass
0.4026	0	0	0	Pass
0.4055	0	0	0	Pass
0.4084	0	0	0	Pass
0.4113	0	0	0	Pass
0.4143	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #2
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 2
Average Annual Volume (acft)
Month Predevel Mitigated Percent Pass/Fail

Jan	18.4119	18.4119	100.0	Pass
Feb	14.2082	14.2082	100.0	Pass
Mar	12.5055	12.5055	100.0	Pass
Apr	6.7390	6.7390	100.0	Pass
May	3.2498	3.2498	100.0	Pass
Jun	2.0424	2.0424	100.0	Pass
Jul	0.9487	0.9487	100.0	Pass
Aug	1.3622	1.3622	100.0	Pass
Sep	3.4087	3.4087	100.0	Pass

Oct	9.1228	9.1228	100.0	Pass
Nov	16.9360	16.9360	100.0	Pass
Dec	17.7666	17.7666	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.5852	0.5852	100.0	Pass
2	0.4851	0.4851	100.0	Pass
3	0.5772	0.5772	100.0	Pass
4	0.6528	0.6528	100.0	Pass
5	0.5283	0.5283	100.0	Pass
6	0.7078	0.7078	100.0	Pass
7	0.6081	0.6081	100.0	Pass
8	0.5963	0.5963	100.0	Pass
9	0.6127	0.6127	100.0	Pass
10	0.6176	0.6176	100.0	Pass
11	0.7289	0.7289	100.0	Pass
12	0.6151	0.6151	100.0	Pass
13	0.7239	0.7239	100.0	Pass
14	0.7376	0.7376	100.0	Pass
15	0.6883	0.6883	100.0	Pass
16	0.5997	0.5997	100.0	Pass
17	0.5636	0.5636	100.0	Pass
18	0.4992	0.4992	100.0	Pass
19	0.4788	0.4788	100.0	Pass
20	0.3481	0.3481	100.0	Pass
21	0.5205	0.5205	100.0	Pass
22	0.6724	0.6724	100.0	Pass
23	0.7736	0.7736	100.0	Pass
24	0.5895	0.5895	100.0	Pass
25	0.5022	0.5022	100.0	Pass
26	0.4523	0.4523	100.0	Pass
27	0.5149	0.5149	100.0	Pass
28	0.6404	0.6404	100.0	Pass
29	0.5346	0.5346	100.0	Pass
30	0.5923	0.5923	100.0	Pass
31	0.4107	0.4107	100.0	Pass
Feb1	0.4287	0.4287	100.0	Pass
2	0.3832	0.3832	100.0	Pass
3	0.3542	0.3542	100.0	Pass
4	0.3284	0.3284	100.0	Pass
5	0.5312	0.5312	100.0	Pass
6	0.3389	0.3389	100.0	Pass
7	0.4147	0.4147	100.0	Pass
8	0.3398	0.3398	100.0	Pass
9	0.3739	0.3739	100.0	Pass
10	0.4820	0.4820	100.0	Pass
11	0.6497	0.6497	100.0	Pass
12	0.5593	0.5593	100.0	Pass
13	0.5711	0.5711	100.0	Pass
14	0.7514	0.7514	100.0	Pass
15	0.6270	0.6270	100.0	Pass
16	0.7483	0.7483	100.0	Pass
17	0.6941	0.6941	100.0	Pass
18	0.5926	0.5926	100.0	Pass
19	0.5079	0.5079	100.0	Pass
20	0.4786	0.4786	100.0	Pass
21	0.3929	0.3929	100.0	Pass

22	0.5229	0.5229	100.0	Pass
23	0.5123	0.5123	100.0	Pass
24	0.5602	0.5602	100.0	Pass
25	0.5198	0.5198	100.0	Pass
26	0.5183	0.5183	100.0	Pass
27	0.4613	0.4613	100.0	Pass
28	0.6011	0.6011	100.0	Pass
29	0.4337	0.4337	100.0	Pass
Mar1	0.4196	0.4196	100.0	Pass
2	0.3573	0.3573	100.0	Pass
3	0.4572	0.4572	100.0	Pass
4	0.4879	0.4879	100.0	Pass
5	0.4028	0.4028	100.0	Pass
6	0.4950	0.4950	100.0	Pass
7	0.4736	0.4736	100.0	Pass
8	0.4741	0.4741	100.0	Pass
9	0.4757	0.4757	100.0	Pass
10	0.4295	0.4295	100.0	Pass
11	0.4520	0.4520	100.0	Pass
12	0.4046	0.4046	100.0	Pass
13	0.4732	0.4732	100.0	Pass
14	0.3982	0.3982	100.0	Pass
15	0.3299	0.3299	100.0	Pass
16	0.3060	0.3060	100.0	Pass
17	0.3979	0.3979	100.0	Pass
18	0.2706	0.2706	100.0	Pass
19	0.3545	0.3545	100.0	Pass
20	0.3018	0.3018	100.0	Pass
21	0.4616	0.4616	100.0	Pass
22	0.5282	0.5282	100.0	Pass
23	0.4803	0.4803	100.0	Pass
24	0.3453	0.3453	100.0	Pass
25	0.4454	0.4454	100.0	Pass
26	0.3596	0.3596	100.0	Pass
27	0.3259	0.3259	100.0	Pass
28	0.3649	0.3649	100.0	Pass
29	0.3332	0.3332	100.0	Pass
30	0.2667	0.2667	100.0	Pass
31	0.2146	0.2146	100.0	Pass
Apr1	0.2153	0.2153	100.0	Pass
2	0.2326	0.2326	100.0	Pass
3	0.2958	0.2958	100.0	Pass
4	0.2891	0.2891	100.0	Pass
5	0.3216	0.3216	100.0	Pass
6	0.1965	0.1965	100.0	Pass
7	0.2664	0.2664	100.0	Pass
8	0.2820	0.2820	100.0	Pass
9	0.2475	0.2475	100.0	Pass
10	0.2551	0.2551	100.0	Pass
11	0.3125	0.3125	100.0	Pass
12	0.2935	0.2935	100.0	Pass
13	0.2975	0.2975	100.0	Pass
14	0.2676	0.2676	100.0	Pass
15	0.2836	0.2836	100.0	Pass
16	0.1809	0.1809	100.0	Pass
17	0.2089	0.2089	100.0	Pass
18	0.2338	0.2338	100.0	Pass

19	0.1527	0.1527	100.0	Pass
20	0.1331	0.1331	100.0	Pass
21	0.1958	0.1958	100.0	Pass
22	0.1719	0.1719	100.0	Pass
23	0.1582	0.1582	100.0	Pass
24	0.1303	0.1303	100.0	Pass
25	0.1431	0.1431	100.0	Pass
26	0.2375	0.2375	100.0	Pass
27	0.1981	0.1981	100.0	Pass
28	0.2061	0.2061	100.0	Pass
29	0.1181	0.1181	100.0	Pass
30	0.1277	0.1277	100.0	Pass
May1	0.1813	0.1813	100.0	Pass
2	0.1495	0.1495	100.0	Pass
3	0.1501	0.1501	100.0	Pass
4	0.1273	0.1273	100.0	Pass
5	0.1183	0.1183	100.0	Pass
6	0.0993	0.0993	100.0	Pass
7	0.1238	0.1238	100.0	Pass
8	0.0853	0.0853	100.0	Pass
9	0.1050	0.1050	100.0	Pass
10	0.0864	0.0864	100.0	Pass
11	0.0799	0.0799	100.0	Pass
12	0.1112	0.1112	100.0	Pass
13	0.1194	0.1194	100.0	Pass
14	0.1167	0.1167	100.0	Pass
15	0.0902	0.0902	100.0	Pass
16	0.1016	0.1016	100.0	Pass
17	0.0886	0.0886	100.0	Pass
18	0.1267	0.1267	100.0	Pass
19	0.0787	0.0787	100.0	Pass
20	0.0701	0.0701	100.0	Pass
21	0.0717	0.0717	100.0	Pass
22	0.0822	0.0822	100.0	Pass
23	0.0771	0.0771	100.0	Pass
24	0.0812	0.0812	100.0	Pass
25	0.0704	0.0704	100.0	Pass
26	0.1114	0.1114	100.0	Pass
27	0.0938	0.0938	100.0	Pass
28	0.0982	0.0982	100.0	Pass
29	0.1334	0.1334	100.0	Pass
30	0.0939	0.0939	100.0	Pass
31	0.1011	0.1011	100.0	Pass
Jun1	0.0819	0.0819	100.0	Pass
2	0.1105	0.1105	100.0	Pass
3	0.1066	0.1066	100.0	Pass
4	0.0827	0.0827	100.0	Pass
5	0.1263	0.1263	100.0	Pass
6	0.0613	0.0613	100.0	Pass
7	0.0808	0.0808	100.0	Pass
8	0.1072	0.1072	100.0	Pass
9	0.0842	0.0842	100.0	Pass
10	0.0762	0.0762	100.0	Pass
11	0.0583	0.0583	100.0	Pass
12	0.0645	0.0645	100.0	Pass
13	0.1018	0.1018	100.0	Pass
14	0.0513	0.0513	100.0	Pass

15	0.0862	0.0862	100.0	Pass
16	0.0463	0.0463	100.0	Pass
17	0.0560	0.0560	100.0	Pass
18	0.0434	0.0434	100.0	Pass
19	0.0430	0.0430	100.0	Pass
20	0.0444	0.0444	100.0	Pass
21	0.0471	0.0471	100.0	Pass
22	0.0288	0.0288	100.0	Pass
23	0.1160	0.1160	100.0	Pass
24	0.0458	0.0458	100.0	Pass
25	0.0580	0.0580	100.0	Pass
26	0.0356	0.0356	100.0	Pass
27	0.0298	0.0298	100.0	Pass
28	0.0298	0.0298	100.0	Pass
29	0.0377	0.0377	100.0	Pass
30	0.0845	0.0845	100.0	Pass
Jul1	0.0277	0.0277	100.0	Pass
2	0.0207	0.0207	100.0	Pass
3	0.0201	0.0201	100.0	Pass
4	0.0432	0.0432	100.0	Pass
5	0.0338	0.0338	100.0	Pass
6	0.0261	0.0261	100.0	Pass
7	0.0525	0.0525	100.0	Pass
8	0.0350	0.0350	100.0	Pass
9	0.0621	0.0621	100.0	Pass
10	0.0444	0.0444	100.0	Pass
11	0.0918	0.0918	100.0	Pass
12	0.0614	0.0614	100.0	Pass
13	0.0421	0.0421	100.0	Pass
14	0.0526	0.0526	100.0	Pass
15	0.0242	0.0242	100.0	Pass
16	0.0149	0.0149	100.0	Pass
17	0.0422	0.0422	100.0	Pass
18	0.0192	0.0192	100.0	Pass
19	0.0194	0.0194	100.0	Pass
20	0.0295	0.0295	100.0	Pass
21	0.0262	0.0262	100.0	Pass
22	0.0054	0.0054	100.0	Pass
23	0.0077	0.0077	100.0	Pass
24	0.0077	0.0077	100.0	Pass
25	0.0155	0.0155	100.0	Pass
26	0.0065	0.0065	100.0	Pass
27	0.0096	0.0096	100.0	Pass
28	0.0083	0.0083	100.0	Pass
29	0.0056	0.0056	100.0	Pass
30	0.0090	0.0090	100.0	Pass
31	0.0104	0.0104	100.0	Pass
Aug1	0.0431	0.0431	100.0	Pass
2	0.0182	0.0182	100.0	Pass
3	0.0085	0.0085	100.0	Pass
4	0.0073	0.0073	100.0	Pass
5	0.0510	0.0510	100.0	Pass
6	0.0374	0.0374	100.0	Pass
7	0.0157	0.0157	100.0	Pass
8	0.0139	0.0139	100.0	Pass
9	0.0021	0.0021	100.0	Pass
10	0.0068	0.0068	100.0	Pass

11	0.0312	0.0312	100.0	Pass
12	0.0276	0.0276	100.0	Pass
13	0.0353	0.0353	100.0	Pass
14	0.0246	0.0246	100.0	Pass
15	0.0237	0.0237	100.0	Pass
16	0.0187	0.0187	100.0	Pass
17	0.0316	0.0316	100.0	Pass
18	0.0605	0.0605	100.0	Pass
19	0.0224	0.0224	100.0	Pass
20	0.0485	0.0485	100.0	Pass
21	0.0483	0.0483	100.0	Pass
22	0.0912	0.0912	100.0	Pass
23	0.0927	0.0927	100.0	Pass
24	0.0925	0.0925	100.0	Pass
25	0.0447	0.0447	100.0	Pass
26	0.0910	0.0910	100.0	Pass
27	0.0979	0.0979	100.0	Pass
28	0.1033	0.1033	100.0	Pass
29	0.0676	0.0676	100.0	Pass
30	0.0945	0.0945	100.0	Pass
31	0.1551	0.1551	100.0	Pass
Sep1	0.0809	0.0809	100.0	Pass
2	0.0729	0.0729	100.0	Pass
3	0.0729	0.0729	100.0	Pass
4	0.0847	0.0847	100.0	Pass
5	0.0749	0.0749	100.0	Pass
6	0.0542	0.0542	100.0	Pass
7	0.0900	0.0900	100.0	Pass
8	0.0650	0.0650	100.0	Pass
9	0.1446	0.1446	100.0	Pass
10	0.0460	0.0460	100.0	Pass
11	0.0345	0.0345	100.0	Pass
12	0.0768	0.0768	100.0	Pass
13	0.1470	0.1470	100.0	Pass
14	0.1062	0.1062	100.0	Pass
15	0.1501	0.1501	100.0	Pass
16	0.1745	0.1745	100.0	Pass
17	0.1809	0.1809	100.0	Pass
18	0.1652	0.1652	100.0	Pass
19	0.1837	0.1837	100.0	Pass
20	0.1485	0.1485	100.0	Pass
21	0.1949	0.1949	100.0	Pass
22	0.1604	0.1604	100.0	Pass
23	0.1254	0.1254	100.0	Pass
24	0.0903	0.0903	100.0	Pass
25	0.0868	0.0868	100.0	Pass
26	0.0874	0.0874	100.0	Pass
27	0.1217	0.1217	100.0	Pass
28	0.1032	0.1032	100.0	Pass
29	0.1306	0.1306	100.0	Pass
30	0.1053	0.1053	100.0	Pass
Oct1	0.0782	0.0782	100.0	Pass
2	0.1590	0.1590	100.0	Pass
3	0.1498	0.1498	100.0	Pass
4	0.1893	0.1893	100.0	Pass
5	0.2042	0.2042	100.0	Pass
6	0.2231	0.2231	100.0	Pass

7	0.2901	0.2901	100.0	Pass
8	0.2528	0.2528	100.0	Pass
9	0.2039	0.2039	100.0	Pass
10	0.1688	0.1688	100.0	Pass
11	0.2750	0.2750	100.0	Pass
12	0.2068	0.2068	100.0	Pass
13	0.2634	0.2634	100.0	Pass
14	0.1805	0.1805	100.0	Pass
15	0.1945	0.1945	100.0	Pass
16	0.2567	0.2567	100.0	Pass
17	0.2400	0.2400	100.0	Pass
18	0.3705	0.3705	100.0	Pass
19	0.4678	0.4678	100.0	Pass
20	0.4126	0.4126	100.0	Pass
21	0.4940	0.4940	100.0	Pass
22	0.3380	0.3380	100.0	Pass
23	0.4827	0.4827	100.0	Pass
24	0.4407	0.4407	100.0	Pass
25	0.4033	0.4033	100.0	Pass
26	0.4678	0.4678	100.0	Pass
27	0.4221	0.4221	100.0	Pass
28	0.3904	0.3904	100.0	Pass
29	0.3412	0.3412	100.0	Pass
30	0.4512	0.4512	100.0	Pass
31	0.4125	0.4125	100.0	Pass
Nov1	0.5031	0.5031	100.0	Pass
2	0.5777	0.5777	100.0	Pass
3	0.5068	0.5068	100.0	Pass
4	0.4895	0.4895	100.0	Pass
5	0.5381	0.5381	100.0	Pass
6	0.4760	0.4760	100.0	Pass
7	0.4294	0.4294	100.0	Pass
8	0.5093	0.5093	100.0	Pass
9	0.6060	0.6060	100.0	Pass
10	0.5452	0.5452	100.0	Pass
11	0.5960	0.5960	100.0	Pass
12	0.5534	0.5534	100.0	Pass
13	0.4587	0.4587	100.0	Pass
14	0.4896	0.4896	100.0	Pass
15	0.5427	0.5427	100.0	Pass
16	0.5647	0.5647	100.0	Pass
17	0.5343	0.5343	100.0	Pass
18	0.7414	0.7414	100.0	Pass
19	0.7019	0.7019	100.0	Pass
20	0.5124	0.5124	100.0	Pass
21	0.7075	0.7075	100.0	Pass
22	0.8091	0.8091	100.0	Pass
23	0.6879	0.6879	100.0	Pass
24	0.7531	0.7531	100.0	Pass
25	0.5572	0.5572	100.0	Pass
26	0.4521	0.4521	100.0	Pass
27	0.4891	0.4891	100.0	Pass
28	0.4696	0.4696	100.0	Pass
29	0.7224	0.7224	100.0	Pass
30	0.6363	0.6363	100.0	Pass
Dec1	0.6794	0.6794	100.0	Pass
2	0.6792	0.6792	100.0	Pass

3	0.4773	0.4773	100.0	Pass
4	0.4849	0.4849	100.0	Pass
5	0.4346	0.4346	100.0	Pass
6	0.3668	0.3668	100.0	Pass
7	0.4812	0.4812	100.0	Pass
8	0.6016	0.6016	100.0	Pass
9	0.6268	0.6268	100.0	Pass
10	0.6837	0.6837	100.0	Pass
11	0.5282	0.5282	100.0	Pass
12	0.5473	0.5473	100.0	Pass
13	0.7524	0.7524	100.0	Pass
14	0.6006	0.6006	100.0	Pass
15	0.7092	0.7092	100.0	Pass
16	0.5419	0.5419	100.0	Pass
17	0.5901	0.5901	100.0	Pass
18	0.5049	0.5049	100.0	Pass
19	0.5518	0.5518	100.0	Pass
20	0.5630	0.5630	100.0	Pass
21	0.6198	0.6198	100.0	Pass
22	0.6045	0.6045	100.0	Pass
23	0.6488	0.6488	100.0	Pass
24	0.7021	0.7021	100.0	Pass
25	0.6558	0.6558	100.0	Pass
26	0.6040	0.6040	100.0	Pass
27	0.4295	0.4295	100.0	Pass
28	0.5878	0.5878	100.0	Pass
29	0.4433	0.4433	100.0	Pass
30	0.4307	0.4307	100.0	Pass
31	0.6660	0.6660	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #3

Total Pervious Area:0.361
Total Impervious Area:0.372

Mitigated Landuse Totals for POC #3

Total Pervious Area:0.361
Total Impervious Area:0.372

Flow Frequency Return Periods for Predeveloped. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.36334
5 year	0.45052
10 year	0.499178
25 year	0.552871
50 year	0.58832
100 year	0.620576

Flow Frequency Return Periods for Mitigated. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.36334
5 year	0.45052
10 year	0.499178
25 year	0.552871
50 year	0.58832
100 year	0.620576

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #3

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.421	0.421
1957	0.482	0.482
1958	0.350	0.350
1959	0.394	0.394
1960	0.417	0.417
1961	0.283	0.283
1962	0.551	0.551
1963	0.492	0.492
1964	0.396	0.396
1965	0.412	0.412
1966	0.422	0.422
1967	0.235	0.235
1968	0.389	0.389
1969	0.387	0.387
1970	0.312	0.312
1971	0.555	0.555
1972	0.483	0.483
1973	0.405	0.405
1974	0.425	0.425
1975	0.355	0.355
1976	0.444	0.444
1977	0.302	0.302
1978	0.538	0.538
1979	0.345	0.345
1980	0.309	0.309
1981	0.389	0.389
1982	0.446	0.446
1983	0.355	0.355
1984	0.347	0.347
1985	0.216	0.216
1986	0.412	0.412
1987	0.281	0.281
1988	0.441	0.441
1989	0.352	0.352
1990	0.500	0.500
1991	0.294	0.294
1992	0.219	0.219
1993	0.236	0.236
1994	0.341	0.341
1995	0.268	0.268
1996	0.339	0.339
1997	0.385	0.385
1998	0.228	0.228
1999	0.306	0.306
2000	0.282	0.282

2001	0.244	0.244
2002	0.323	0.323
2003	0.543	0.543
2004	0.486	0.486
2005	0.369	0.369
2006	0.385	0.385
2007	0.466	0.466
2008	0.207	0.207
2009	0.189	0.189

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	0.5553	0.5553
2	0.5506	0.5506
3	0.5433	0.5433
4	0.5381	0.5381
5	0.4998	0.4998
6	0.4920	0.4920
7	0.4863	0.4863
8	0.4829	0.4829
9	0.4824	0.4824
10	0.4655	0.4655
11	0.4463	0.4463
12	0.4443	0.4443
13	0.4408	0.4408
14	0.4247	0.4247
15	0.4216	0.4216
16	0.4207	0.4207
17	0.4168	0.4168
18	0.4121	0.4121
19	0.4117	0.4117
20	0.4050	0.4050
21	0.3963	0.3963
22	0.3945	0.3945
23	0.3892	0.3892
24	0.3887	0.3887
25	0.3872	0.3872
26	0.3851	0.3851
27	0.3848	0.3848
28	0.3694	0.3694
29	0.3554	0.3554
30	0.3552	0.3552
31	0.3524	0.3524
32	0.3497	0.3497
33	0.3467	0.3467
34	0.3450	0.3450
35	0.3411	0.3411
36	0.3391	0.3391
37	0.3233	0.3233
38	0.3116	0.3116
39	0.3090	0.3090
40	0.3057	0.3057
41	0.3021	0.3021
42	0.2936	0.2936
43	0.2835	0.2835

44	0.2822	0.2822
45	0.2812	0.2812
46	0.2677	0.2677
47	0.2445	0.2445
48	0.2357	0.2357
49	0.2349	0.2349
50	0.2275	0.2275
51	0.2187	0.2187
52	0.2156	0.2156
53	0.2066	0.2066
54	0.1888	0.1888

Stream Protection Duration

POC #3

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1817	790	790	100	Pass
0.1858	746	746	100	Pass
0.1899	694	694	100	Pass
0.1940	644	644	100	Pass
0.1981	596	596	100	Pass
0.2022	554	554	100	Pass
0.2063	523	523	100	Pass
0.2104	480	480	100	Pass
0.2145	441	441	100	Pass
0.2186	405	405	100	Pass
0.2227	379	379	100	Pass
0.2269	357	357	100	Pass
0.2310	341	341	100	Pass
0.2351	325	325	100	Pass
0.2392	297	297	100	Pass
0.2433	276	276	100	Pass
0.2474	246	246	100	Pass
0.2515	238	238	100	Pass
0.2556	220	220	100	Pass
0.2597	212	212	100	Pass
0.2638	199	199	100	Pass
0.2679	191	191	100	Pass
0.2720	182	182	100	Pass
0.2761	170	170	100	Pass
0.2803	163	163	100	Pass
0.2844	148	148	100	Pass
0.2885	145	145	100	Pass
0.2926	140	140	100	Pass
0.2967	129	129	100	Pass
0.3008	126	126	100	Pass
0.3049	119	119	100	Pass
0.3090	112	112	100	Pass
0.3131	106	106	100	Pass
0.3172	101	101	100	Pass
0.3213	95	95	100	Pass
0.3254	92	92	100	Pass
0.3295	88	88	100	Pass

0.3337	83	83	100	Pass
0.3378	79	79	100	Pass
0.3419	76	76	100	Pass
0.3460	71	71	100	Pass
0.3501	66	66	100	Pass
0.3542	63	63	100	Pass
0.3583	59	59	100	Pass
0.3624	55	55	100	Pass
0.3665	54	54	100	Pass
0.3706	50	50	100	Pass
0.3747	48	48	100	Pass
0.3788	48	48	100	Pass
0.3829	48	48	100	Pass
0.3870	44	44	100	Pass
0.3912	41	41	100	Pass
0.3953	38	38	100	Pass
0.3994	36	36	100	Pass
0.4035	34	34	100	Pass
0.4076	32	32	100	Pass
0.4117	32	32	100	Pass
0.4158	30	30	100	Pass
0.4199	28	28	100	Pass
0.4240	26	26	100	Pass
0.4281	23	23	100	Pass
0.4322	22	22	100	Pass
0.4363	21	21	100	Pass
0.4404	20	20	100	Pass
0.4446	18	18	100	Pass
0.4487	14	14	100	Pass
0.4528	14	14	100	Pass
0.4569	14	14	100	Pass
0.4610	13	13	100	Pass
0.4651	12	12	100	Pass
0.4692	11	11	100	Pass
0.4733	11	11	100	Pass
0.4774	11	11	100	Pass
0.4815	11	11	100	Pass
0.4856	9	9	100	Pass
0.4897	8	8	100	Pass
0.4938	7	7	100	Pass
0.4980	7	7	100	Pass
0.5021	6	6	100	Pass
0.5062	6	6	100	Pass
0.5103	6	6	100	Pass
0.5144	6	6	100	Pass
0.5185	6	6	100	Pass
0.5226	5	5	100	Pass
0.5267	5	5	100	Pass
0.5308	4	4	100	Pass
0.5349	4	4	100	Pass
0.5390	3	3	100	Pass
0.5431	3	3	100	Pass
0.5472	2	2	100	Pass
0.5514	1	1	100	Pass
0.5555	1	1	100	Pass
0.5596	0	0	100	Pass
0.5637	0	0	0	Pass

0.5678	0	0	0	Pass
0.5719	0	0	0	Pass
0.5760	0	0	0	Pass
0.5801	0	0	0	Pass
0.5842	0	0	0	Pass
0.5883	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #3
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 3

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	26.0673	26.0673	100.0	Pass
Feb	20.0882	20.0882	100.0	Pass
Mar	17.6981	17.6981	100.0	Pass
Apr	9.5888	9.5888	100.0	Pass
May	4.7084	4.7084	100.0	Pass
Jun	2.9884	2.9884	100.0	Pass
Jul	1.4051	1.4051	100.0	Pass
Aug	2.0353	2.0353	100.0	Pass
Sep	5.0017	5.0017	100.0	Pass
Oct	13.1753	13.1753	100.0	Pass
Nov	24.1022	24.1022	100.0	Pass
Dec	25.1530	25.1530	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.8298	0.8298	100.0	Pass
2	0.6817	0.6817	100.0	Pass
3	0.8208	0.8208	100.0	Pass
4	0.9345	0.9345	100.0	Pass
5	0.7423	0.7423	100.0	Pass
6	1.0148	1.0148	100.0	Pass
7	0.8561	0.8561	100.0	Pass
8	0.8429	0.8429	100.0	Pass
9	0.8718	0.8718	100.0	Pass
10	0.8731	0.8731	100.0	Pass
11	1.0369	1.0369	100.0	Pass
12	0.8643	0.8643	100.0	Pass
13	1.0292	1.0292	100.0	Pass
14	1.0448	1.0448	100.0	Pass
15	0.9713	0.9713	100.0	Pass
16	0.8378	0.8378	100.0	Pass
17	0.7898	0.7898	100.0	Pass
18	0.6992	0.6992	100.0	Pass
19	0.6752	0.6752	100.0	Pass
20	0.4828	0.4828	100.0	Pass
21	0.7537	0.7537	100.0	Pass
22	0.9620	0.9620	100.0	Pass

23	1.1013	1.1013	100.0	Pass
24	0.8238	0.8238	100.0	Pass
25	0.7011	0.7011	100.0	Pass
26	0.6317	0.6317	100.0	Pass
27	0.7320	0.7320	100.0	Pass
28	0.9141	0.9141	100.0	Pass
29	0.7516	0.7516	100.0	Pass
30	0.8421	0.8421	100.0	Pass
31	0.5702	0.5702	100.0	Pass
Feb1	0.6037	0.6037	100.0	Pass
2	0.5415	0.5415	100.0	Pass
3	0.4986	0.4986	100.0	Pass
4	0.4622	0.4622	100.0	Pass
5	0.7652	0.7652	100.0	Pass
6	0.4694	0.4694	100.0	Pass
7	0.5910	0.5910	100.0	Pass
8	0.4780	0.4780	100.0	Pass
9	0.5342	0.5342	100.0	Pass
10	0.6927	0.6927	100.0	Pass
11	0.9298	0.9298	100.0	Pass
12	0.7872	0.7872	100.0	Pass
13	0.8109	0.8109	100.0	Pass
14	1.0787	1.0787	100.0	Pass
15	0.8791	0.8791	100.0	Pass
16	1.0661	1.0661	100.0	Pass
17	0.9799	0.9799	100.0	Pass
18	0.8257	0.8257	100.0	Pass
19	0.7095	0.7095	100.0	Pass
20	0.6709	0.6709	100.0	Pass
21	0.5506	0.5506	100.0	Pass
22	0.7448	0.7448	100.0	Pass
23	0.7259	0.7259	100.0	Pass
24	0.7948	0.7948	100.0	Pass
25	0.7327	0.7327	100.0	Pass
26	0.7291	0.7291	100.0	Pass
27	0.6472	0.6472	100.0	Pass
28	0.8489	0.8489	100.0	Pass
29	0.6109	0.6109	100.0	Pass
Mar1	0.5929	0.5929	100.0	Pass
2	0.5013	0.5013	100.0	Pass
3	0.6527	0.6527	100.0	Pass
4	0.6941	0.6941	100.0	Pass
5	0.5681	0.5681	100.0	Pass
6	0.7016	0.7016	100.0	Pass
7	0.6742	0.6742	100.0	Pass
8	0.6714	0.6714	100.0	Pass
9	0.6736	0.6736	100.0	Pass
10	0.6044	0.6044	100.0	Pass
11	0.6394	0.6394	100.0	Pass
12	0.5712	0.5712	100.0	Pass
13	0.6724	0.6724	100.0	Pass
14	0.5599	0.5599	100.0	Pass
15	0.4624	0.4624	100.0	Pass
16	0.4317	0.4317	100.0	Pass
17	0.5658	0.5658	100.0	Pass
18	0.3777	0.3777	100.0	Pass
19	0.5067	0.5067	100.0	Pass

20	0.4271	0.4271	100.0	Pass
21	0.6651	0.6651	100.0	Pass
22	0.7581	0.7581	100.0	Pass
23	0.6775	0.6775	100.0	Pass
24	0.4779	0.4779	100.0	Pass
25	0.6354	0.6354	100.0	Pass
26	0.5038	0.5038	100.0	Pass
27	0.4609	0.4609	100.0	Pass
28	0.5162	0.5162	100.0	Pass
29	0.4716	0.4716	100.0	Pass
30	0.3730	0.3730	100.0	Pass
31	0.3003	0.3003	100.0	Pass
Apr1	0.3046	0.3046	100.0	Pass
2	0.3315	0.3315	100.0	Pass
3	0.4278	0.4278	100.0	Pass
4	0.4122	0.4122	100.0	Pass
5	0.4558	0.4558	100.0	Pass
6	0.2724	0.2724	100.0	Pass
7	0.3828	0.3828	100.0	Pass
8	0.4015	0.4015	100.0	Pass
9	0.3529	0.3529	100.0	Pass
10	0.3611	0.3611	100.0	Pass
11	0.4521	0.4521	100.0	Pass
12	0.4172	0.4172	100.0	Pass
13	0.4252	0.4252	100.0	Pass
14	0.3786	0.3786	100.0	Pass
15	0.4021	0.4021	100.0	Pass
16	0.2503	0.2503	100.0	Pass
17	0.2981	0.2981	100.0	Pass
18	0.3354	0.3354	100.0	Pass
19	0.2118	0.2118	100.0	Pass
20	0.1880	0.1880	100.0	Pass
21	0.2841	0.2841	100.0	Pass
22	0.2467	0.2467	100.0	Pass
23	0.2248	0.2248	100.0	Pass
24	0.1844	0.1844	100.0	Pass
25	0.2062	0.2062	100.0	Pass
26	0.3430	0.3430	100.0	Pass
27	0.2819	0.2819	100.0	Pass
28	0.2936	0.2936	100.0	Pass
29	0.1633	0.1633	100.0	Pass
30	0.1833	0.1833	100.0	Pass
May1	0.2650	0.2650	100.0	Pass
2	0.2129	0.2129	100.0	Pass
3	0.2165	0.2165	100.0	Pass
4	0.1810	0.1810	100.0	Pass
5	0.1694	0.1694	100.0	Pass
6	0.1423	0.1423	100.0	Pass
7	0.1797	0.1797	100.0	Pass
8	0.1209	0.1209	100.0	Pass
9	0.1527	0.1527	100.0	Pass
10	0.1250	0.1250	100.0	Pass
11	0.1159	0.1159	100.0	Pass
12	0.1623	0.1623	100.0	Pass
13	0.1743	0.1743	100.0	Pass
14	0.1705	0.1705	100.0	Pass
15	0.1279	0.1279	100.0	Pass

16	0.1483	0.1483	100.0	Pass
17	0.1276	0.1276	100.0	Pass
18	0.1876	0.1876	100.0	Pass
19	0.1124	0.1124	100.0	Pass
20	0.1020	0.1020	100.0	Pass
21	0.1042	0.1042	100.0	Pass
22	0.1214	0.1214	100.0	Pass
23	0.1122	0.1122	100.0	Pass
24	0.1182	0.1182	100.0	Pass
25	0.1016	0.1016	100.0	Pass
26	0.1642	0.1642	100.0	Pass
27	0.1361	0.1361	100.0	Pass
28	0.1435	0.1435	100.0	Pass
29	0.1951	0.1951	100.0	Pass
30	0.1349	0.1349	100.0	Pass
31	0.1457	0.1457	100.0	Pass
Jun1	0.1162	0.1162	100.0	Pass
2	0.1636	0.1636	100.0	Pass
3	0.1572	0.1572	100.0	Pass
4	0.1197	0.1197	100.0	Pass
5	0.1867	0.1867	100.0	Pass
6	0.0860	0.0860	100.0	Pass
7	0.1169	0.1169	100.0	Pass
8	0.1572	0.1572	100.0	Pass
9	0.1222	0.1222	100.0	Pass
10	0.1118	0.1118	100.0	Pass
11	0.0845	0.0845	100.0	Pass
12	0.0955	0.0955	100.0	Pass
13	0.1512	0.1512	100.0	Pass
14	0.0729	0.0729	100.0	Pass
15	0.1271	0.1271	100.0	Pass
16	0.0655	0.0655	100.0	Pass
17	0.0818	0.0818	100.0	Pass
18	0.0616	0.0616	100.0	Pass
19	0.0634	0.0634	100.0	Pass
20	0.0663	0.0663	100.0	Pass
21	0.0695	0.0695	100.0	Pass
22	0.0414	0.0414	100.0	Pass
23	0.1765	0.1765	100.0	Pass
24	0.0640	0.0640	100.0	Pass
25	0.0857	0.0857	100.0	Pass
26	0.0523	0.0523	100.0	Pass
27	0.0445	0.0445	100.0	Pass
28	0.0448	0.0448	100.0	Pass
29	0.0573	0.0573	100.0	Pass
30	0.1274	0.1274	100.0	Pass
Jul1	0.0393	0.0393	100.0	Pass
2	0.0302	0.0302	100.0	Pass
3	0.0301	0.0301	100.0	Pass
4	0.0669	0.0669	100.0	Pass
5	0.0517	0.0517	100.0	Pass
6	0.0397	0.0397	100.0	Pass
7	0.0793	0.0793	100.0	Pass
8	0.0509	0.0509	100.0	Pass
9	0.0938	0.0938	100.0	Pass
10	0.0656	0.0656	100.0	Pass
11	0.1353	0.1353	100.0	Pass

12	0.0856	0.0856	100.0	Pass
13	0.0595	0.0595	100.0	Pass
14	0.0777	0.0777	100.0	Pass
15	0.0346	0.0346	100.0	Pass
16	0.0214	0.0214	100.0	Pass
17	0.0633	0.0633	100.0	Pass
18	0.0270	0.0270	100.0	Pass
19	0.0284	0.0284	100.0	Pass
20	0.0446	0.0446	100.0	Pass
21	0.0387	0.0387	100.0	Pass
22	0.0069	0.0069	100.0	Pass
23	0.0112	0.0112	100.0	Pass
24	0.0116	0.0116	100.0	Pass
25	0.0241	0.0241	100.0	Pass
26	0.0101	0.0101	100.0	Pass
27	0.0150	0.0150	100.0	Pass
28	0.0127	0.0127	100.0	Pass
29	0.0086	0.0086	100.0	Pass
30	0.0140	0.0140	100.0	Pass
31	0.0162	0.0162	100.0	Pass
Aug1	0.0668	0.0668	100.0	Pass
2	0.0269	0.0269	100.0	Pass
3	0.0120	0.0120	100.0	Pass
4	0.0107	0.0107	100.0	Pass
5	0.0782	0.0782	100.0	Pass
6	0.0560	0.0560	100.0	Pass
7	0.0228	0.0228	100.0	Pass
8	0.0208	0.0208	100.0	Pass
9	0.0027	0.0027	100.0	Pass
10	0.0104	0.0104	100.0	Pass
11	0.0484	0.0484	100.0	Pass
12	0.0424	0.0424	100.0	Pass
13	0.0541	0.0541	100.0	Pass
14	0.0365	0.0365	100.0	Pass
15	0.0346	0.0346	100.0	Pass
16	0.0278	0.0278	100.0	Pass
17	0.0488	0.0488	100.0	Pass
18	0.0935	0.0935	100.0	Pass
19	0.0324	0.0324	100.0	Pass
20	0.0744	0.0744	100.0	Pass
21	0.0726	0.0726	100.0	Pass
22	0.1382	0.1382	100.0	Pass
23	0.1379	0.1379	100.0	Pass
24	0.1335	0.1335	100.0	Pass
25	0.0624	0.0624	100.0	Pass
26	0.1369	0.1369	100.0	Pass
27	0.1454	0.1454	100.0	Pass
28	0.1517	0.1517	100.0	Pass
29	0.0984	0.0984	100.0	Pass
30	0.1421	0.1421	100.0	Pass
31	0.2315	0.2315	100.0	Pass
Sep1	0.1136	0.1136	100.0	Pass
2	0.1049	0.1049	100.0	Pass
3	0.1065	0.1065	100.0	Pass
4	0.1259	0.1259	100.0	Pass
5	0.1106	0.1106	100.0	Pass
6	0.0790	0.0790	100.0	Pass

7	0.1361	0.1361	100.0	Pass
8	0.0955	0.0955	100.0	Pass
9	0.2193	0.2193	100.0	Pass
10	0.0655	0.0655	100.0	Pass
11	0.0502	0.0502	100.0	Pass
12	0.1164	0.1164	100.0	Pass
13	0.2217	0.2217	100.0	Pass
14	0.1557	0.1557	100.0	Pass
15	0.2234	0.2234	100.0	Pass
16	0.2547	0.2547	100.0	Pass
17	0.2668	0.2668	100.0	Pass
18	0.2429	0.2429	100.0	Pass
19	0.2680	0.2680	100.0	Pass
20	0.2123	0.2123	100.0	Pass
21	0.2816	0.2816	100.0	Pass
22	0.2306	0.2306	100.0	Pass
23	0.1805	0.1805	100.0	Pass
24	0.1300	0.1300	100.0	Pass
25	0.1273	0.1273	100.0	Pass
26	0.1284	0.1284	100.0	Pass
27	0.1780	0.1780	100.0	Pass
28	0.1516	0.1516	100.0	Pass
29	0.1938	0.1938	100.0	Pass
30	0.1527	0.1527	100.0	Pass
Oct1	0.1122	0.1122	100.0	Pass
2	0.2390	0.2390	100.0	Pass
3	0.2224	0.2224	100.0	Pass
4	0.2791	0.2791	100.0	Pass
5	0.3001	0.3001	100.0	Pass
6	0.3287	0.3287	100.0	Pass
7	0.4260	0.4260	100.0	Pass
8	0.3660	0.3660	100.0	Pass
9	0.2930	0.2930	100.0	Pass
10	0.2419	0.2419	100.0	Pass
11	0.4066	0.4066	100.0	Pass
12	0.2987	0.2987	100.0	Pass
13	0.3877	0.3877	100.0	Pass
14	0.2562	0.2562	100.0	Pass
15	0.2810	0.2810	100.0	Pass
16	0.3724	0.3724	100.0	Pass
17	0.3466	0.3466	100.0	Pass
18	0.5392	0.5392	100.0	Pass
19	0.6774	0.6774	100.0	Pass
20	0.5949	0.5949	100.0	Pass
21	0.7136	0.7136	100.0	Pass
22	0.4749	0.4749	100.0	Pass
23	0.6967	0.6967	100.0	Pass
24	0.6312	0.6312	100.0	Pass
25	0.5752	0.5752	100.0	Pass
26	0.6727	0.6727	100.0	Pass
27	0.6001	0.6001	100.0	Pass
28	0.5557	0.5557	100.0	Pass
29	0.4827	0.4827	100.0	Pass
30	0.6521	0.6521	100.0	Pass
31	0.5871	0.5871	100.0	Pass
Nov1	0.7206	0.7206	100.0	Pass
2	0.8357	0.8357	100.0	Pass

3	0.7166	0.7166	100.0	Pass
4	0.6983	0.6983	100.0	Pass
5	0.7686	0.7686	100.0	Pass
6	0.6728	0.6728	100.0	Pass
7	0.6074	0.6074	100.0	Pass
8	0.7319	0.7319	100.0	Pass
9	0.8697	0.8697	100.0	Pass
10	0.7753	0.7753	100.0	Pass
11	0.8512	0.8512	100.0	Pass
12	0.7897	0.7897	100.0	Pass
13	0.6426	0.6426	100.0	Pass
14	0.6974	0.6974	100.0	Pass
15	0.7751	0.7751	100.0	Pass
16	0.8071	0.8071	100.0	Pass
17	0.7588	0.7588	100.0	Pass
18	1.0646	1.0646	100.0	Pass
19	0.9970	0.9970	100.0	Pass
20	0.7153	0.7153	100.0	Pass
21	1.0110	1.0110	100.0	Pass
22	1.1635	1.1635	100.0	Pass
23	0.9691	0.9691	100.0	Pass
24	1.0697	1.0697	100.0	Pass
25	0.7755	0.7755	100.0	Pass
26	0.6294	0.6294	100.0	Pass
27	0.6951	0.6951	100.0	Pass
28	0.6667	0.6667	100.0	Pass
29	1.0405	1.0405	100.0	Pass
30	0.8996	0.8996	100.0	Pass
Dec1	0.9665	0.9665	100.0	Pass
2	0.9606	0.9606	100.0	Pass
3	0.6642	0.6642	100.0	Pass
4	0.6853	0.6853	100.0	Pass
5	0.6095	0.6095	100.0	Pass
6	0.5169	0.5169	100.0	Pass
7	0.6903	0.6903	100.0	Pass
8	0.8638	0.8638	100.0	Pass
9	0.8916	0.8916	100.0	Pass
10	0.9706	0.9706	100.0	Pass
11	0.7420	0.7420	100.0	Pass
12	0.7751	0.7751	100.0	Pass
13	1.0816	1.0816	100.0	Pass
14	0.8412	0.8412	100.0	Pass
15	1.0122	1.0122	100.0	Pass
16	0.7560	0.7560	100.0	Pass
17	0.8368	0.8368	100.0	Pass
18	0.7108	0.7108	100.0	Pass
19	0.7871	0.7871	100.0	Pass
20	0.7971	0.7971	100.0	Pass
21	0.8775	0.8775	100.0	Pass
22	0.8573	0.8573	100.0	Pass
23	0.9221	0.9221	100.0	Pass
24	1.0022	1.0022	100.0	Pass
25	0.9235	0.9235	100.0	Pass
26	0.8490	0.8490	100.0	Pass
27	0.5977	0.5977	100.0	Pass
28	0.8397	0.8397	100.0	Pass
29	0.6181	0.6181	100.0	Pass

30	0.6082	0.6082	100.0	Pass
31	0.9561	0.9561	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #4
Total Pervious Area:0.086
Total Impervious Area:0.407

Mitigated Landuse Totals for POC #4
Total Pervious Area:0.086
Total Impervious Area:0.407

Flow Frequency Return Periods for Predeveloped. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.295926
5 year	0.353224
10 year	0.384332
25 year	0.418042
50 year	0.439979
100 year	0.459737

Flow Frequency Return Periods for Mitigated. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.295926
5 year	0.353224
10 year	0.384332
25 year	0.418042
50 year	0.439979
100 year	0.459737

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #4

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.316	0.316
1957	0.385	0.385
1958	0.294	0.294
1959	0.303	0.303
1960	0.315	0.315
1961	0.248	0.248
1962	0.413	0.413
1963	0.376	0.376
1964	0.324	0.324
1965	0.324	0.324
1966	0.320	0.320
1967	0.201	0.201
1968	0.305	0.305
1969	0.292	0.292
1970	0.271	0.271

1971	0.423	0.423
1972	0.358	0.358
1973	0.327	0.327
1974	0.320	0.320
1975	0.282	0.282
1976	0.346	0.346
1977	0.249	0.249
1978	0.431	0.431
1979	0.272	0.272
1980	0.250	0.250
1981	0.317	0.317
1982	0.367	0.367
1983	0.289	0.289
1984	0.273	0.273
1985	0.202	0.202
1986	0.326	0.326
1987	0.227	0.227
1988	0.347	0.347
1989	0.288	0.288
1990	0.380	0.380
1991	0.241	0.241
1992	0.191	0.191
1993	0.211	0.211
1994	0.278	0.278
1995	0.263	0.263
1996	0.322	0.322
1997	0.320	0.320
1998	0.200	0.200
1999	0.252	0.252
2000	0.230	0.230
2001	0.221	0.221
2002	0.340	0.340
2003	0.406	0.406
2004	0.376	0.376
2005	0.295	0.295
2006	0.302	0.302
2007	0.356	0.356
2008	0.183	0.183
2009	0.173	0.173

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	0.4308	0.4308
2	0.4228	0.4228
3	0.4135	0.4135
4	0.4060	0.4060
5	0.3854	0.3854
6	0.3798	0.3798
7	0.3764	0.3764
8	0.3758	0.3758
9	0.3666	0.3666
10	0.3584	0.3584
11	0.3561	0.3561
12	0.3475	0.3475
13	0.3458	0.3458

14	0.3401	0.3401
15	0.3274	0.3274
16	0.3260	0.3260
17	0.3242	0.3242
18	0.3236	0.3236
19	0.3222	0.3222
20	0.3203	0.3203
21	0.3201	0.3201
22	0.3196	0.3196
23	0.3175	0.3175
24	0.3159	0.3159
25	0.3148	0.3148
26	0.3051	0.3051
27	0.3027	0.3027
28	0.3016	0.3016
29	0.2955	0.2955
30	0.2940	0.2940
31	0.2920	0.2920
32	0.2892	0.2892
33	0.2877	0.2877
34	0.2824	0.2824
35	0.2776	0.2776
36	0.2727	0.2727
37	0.2724	0.2724
38	0.2710	0.2710
39	0.2632	0.2632
40	0.2525	0.2525
41	0.2502	0.2502
42	0.2488	0.2488
43	0.2476	0.2476
44	0.2410	0.2410
45	0.2301	0.2301
46	0.2274	0.2274
47	0.2212	0.2212
48	0.2114	0.2114
49	0.2020	0.2020
50	0.2013	0.2013
51	0.1999	0.1999
52	0.1905	0.1905
53	0.1830	0.1830
54	0.1729	0.1729

Stream Protection Duration

POC #4

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1480	1093	1093	100	Pass
0.1509	1013	1013	100	Pass
0.1539	942	942	100	Pass
0.1568	883	883	100	Pass
0.1598	815	815	100	Pass
0.1627	759	759	100	Pass
0.1657	700	700	100	Pass

0.1686	642	642	100	Pass
0.1716	599	599	100	Pass
0.1745	552	552	100	Pass
0.1775	515	515	100	Pass
0.1804	481	481	100	Pass
0.1834	444	444	100	Pass
0.1863	419	419	100	Pass
0.1893	388	388	100	Pass
0.1922	359	359	100	Pass
0.1952	336	336	100	Pass
0.1981	315	315	100	Pass
0.2011	298	298	100	Pass
0.2040	277	277	100	Pass
0.2070	264	264	100	Pass
0.2099	250	250	100	Pass
0.2129	238	238	100	Pass
0.2158	226	226	100	Pass
0.2188	211	211	100	Pass
0.2217	195	195	100	Pass
0.2247	187	187	100	Pass
0.2276	175	175	100	Pass
0.2306	165	165	100	Pass
0.2335	159	159	100	Pass
0.2365	153	153	100	Pass
0.2394	147	147	100	Pass
0.2424	140	140	100	Pass
0.2453	132	132	100	Pass
0.2483	120	120	100	Pass
0.2512	111	111	100	Pass
0.2542	101	101	100	Pass
0.2571	98	98	100	Pass
0.2600	96	96	100	Pass
0.2630	93	93	100	Pass
0.2659	89	89	100	Pass
0.2689	84	84	100	Pass
0.2718	80	80	100	Pass
0.2748	75	75	100	Pass
0.2777	74	74	100	Pass
0.2807	69	69	100	Pass
0.2836	67	67	100	Pass
0.2866	64	64	100	Pass
0.2895	58	58	100	Pass
0.2925	52	52	100	Pass
0.2954	50	50	100	Pass
0.2984	47	47	100	Pass
0.3013	46	46	100	Pass
0.3043	43	43	100	Pass
0.3072	42	42	100	Pass
0.3102	41	41	100	Pass
0.3131	40	40	100	Pass
0.3161	37	37	100	Pass
0.3190	35	35	100	Pass
0.3220	32	32	100	Pass
0.3249	29	29	100	Pass
0.3279	27	27	100	Pass
0.3308	25	25	100	Pass
0.3338	23	23	100	Pass

0.3367	23	23	100	Pass
0.3397	23	23	100	Pass
0.3426	22	22	100	Pass
0.3456	20	20	100	Pass
0.3485	17	17	100	Pass
0.3515	16	16	100	Pass
0.3544	15	15	100	Pass
0.3574	14	14	100	Pass
0.3603	12	12	100	Pass
0.3633	12	12	100	Pass
0.3662	11	11	100	Pass
0.3692	10	10	100	Pass
0.3721	10	10	100	Pass
0.3751	10	10	100	Pass
0.3780	8	8	100	Pass
0.3810	7	7	100	Pass
0.3839	7	7	100	Pass
0.3869	6	6	100	Pass
0.3898	5	5	100	Pass
0.3928	5	5	100	Pass
0.3957	5	5	100	Pass
0.3987	5	5	100	Pass
0.4016	4	4	100	Pass
0.4046	4	4	100	Pass
0.4075	3	3	100	Pass
0.4105	3	3	100	Pass
0.4134	3	3	100	Pass
0.4164	2	2	100	Pass
0.4193	2	2	100	Pass
0.4223	2	2	100	Pass
0.4252	1	1	100	Pass
0.4282	1	1	100	Pass
0.4311	0	0	100	Pass
0.4341	0	0	0	Pass
0.4370	0	0	0	Pass
0.4400	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 4

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	18.9087	18.9087	100.0	Pass
Feb	14.4674	14.4674	100.0	Pass
Mar	12.8117	12.8117	100.0	Pass
Apr	7.1344	7.1344	100.0	Pass
May	3.8188	3.8188	100.0	Pass
Jun	2.5320	2.5320	100.0	Pass

Jul	1.2525	1.2525	100.0	Pass
Aug	1.8781	1.8781	100.0	Pass
Sep	4.2884	4.2884	100.0	Pass
Oct	10.5339	10.5339	100.0	Pass
Nov	17.9517	17.9517	100.0	Pass
Dec	18.2428	18.2428	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.6068	0.6068	100.0	Pass
2	0.4755	0.4755	100.0	Pass
3	0.6088	0.6088	100.0	Pass
4	0.7167	0.7167	100.0	Pass
5	0.5173	0.5173	100.0	Pass
6	0.7837	0.7837	100.0	Pass
7	0.6025	0.6025	100.0	Pass
8	0.6064	0.6064	100.0	Pass
9	0.6488	0.6488	100.0	Pass
10	0.6284	0.6284	100.0	Pass
11	0.7711	0.7711	100.0	Pass
12	0.6027	0.6027	100.0	Pass
13	0.7629	0.7629	100.0	Pass
14	0.7600	0.7600	100.0	Pass
15	0.6923	0.6923	100.0	Pass
16	0.5652	0.5652	100.0	Pass
17	0.5425	0.5425	100.0	Pass
18	0.4787	0.4787	100.0	Pass
19	0.4796	0.4796	100.0	Pass
20	0.3125	0.3125	100.0	Pass
21	0.6101	0.6101	100.0	Pass
22	0.7357	0.7357	100.0	Pass
23	0.8219	0.8219	100.0	Pass
24	0.5569	0.5569	100.0	Pass
25	0.4717	0.4717	100.0	Pass
26	0.4260	0.4260	100.0	Pass
27	0.5421	0.5421	100.0	Pass
28	0.6911	0.6911	100.0	Pass
29	0.5254	0.5254	100.0	Pass
30	0.6239	0.6239	100.0	Pass
31	0.3710	0.3710	100.0	Pass
Feb1	0.4255	0.4255	100.0	Pass
2	0.3892	0.3892	100.0	Pass
3	0.3510	0.3510	100.0	Pass
4	0.3252	0.3252	100.0	Pass
5	0.6044	0.6044	100.0	Pass
6	0.3010	0.3010	100.0	Pass
7	0.4431	0.4431	100.0	Pass
8	0.3349	0.3349	100.0	Pass
9	0.4057	0.4057	100.0	Pass
10	0.5412	0.5412	100.0	Pass
11	0.7121	0.7121	100.0	Pass
12	0.5535	0.5535	100.0	Pass
13	0.5968	0.5968	100.0	Pass
14	0.8387	0.8387	100.0	Pass
15	0.6054	0.6054	100.0	Pass
16	0.7983	0.7983	100.0	Pass
17	0.7000	0.7000	100.0	Pass
18	0.5489	0.5489	100.0	Pass

19	0.4782	0.4782	100.0	Pass
20	0.4616	0.4616	100.0	Pass
21	0.3781	0.3781	100.0	Pass
22	0.5574	0.5574	100.0	Pass
23	0.5289	0.5289	100.0	Pass
24	0.5829	0.5829	100.0	Pass
25	0.5195	0.5195	100.0	Pass
26	0.5114	0.5114	100.0	Pass
27	0.4472	0.4472	100.0	Pass
28	0.6075	0.6075	100.0	Pass
29	0.4314	0.4314	100.0	Pass
Mar1	0.4254	0.4254	100.0	Pass
2	0.3464	0.3464	100.0	Pass
3	0.4937	0.4937	100.0	Pass
4	0.5159	0.5159	100.0	Pass
5	0.4040	0.4040	100.0	Pass
6	0.5120	0.5120	100.0	Pass
7	0.5032	0.5032	100.0	Pass
8	0.4873	0.4873	100.0	Pass
9	0.4886	0.4886	100.0	Pass
10	0.4245	0.4245	100.0	Pass
11	0.4621	0.4621	100.0	Pass
12	0.4084	0.4084	100.0	Pass
13	0.4971	0.4971	100.0	Pass
14	0.3919	0.3919	100.0	Pass
15	0.3179	0.3179	100.0	Pass
16	0.3077	0.3077	100.0	Pass
17	0.4196	0.4196	100.0	Pass
18	0.2536	0.2536	100.0	Pass
19	0.3860	0.3860	100.0	Pass
20	0.3092	0.3092	100.0	Pass
21	0.5259	0.5259	100.0	Pass
22	0.5884	0.5884	100.0	Pass
23	0.4823	0.4823	100.0	Pass
24	0.3055	0.3055	100.0	Pass
25	0.4792	0.4792	100.0	Pass
26	0.3453	0.3453	100.0	Pass
27	0.3326	0.3326	100.0	Pass
28	0.3729	0.3729	100.0	Pass
29	0.3416	0.3416	100.0	Pass
30	0.2536	0.2536	100.0	Pass
31	0.2042	0.2042	100.0	Pass
Apr1	0.2203	0.2203	100.0	Pass
2	0.2489	0.2489	100.0	Pass
3	0.3443	0.3443	100.0	Pass
4	0.3098	0.3098	100.0	Pass
5	0.3325	0.3325	100.0	Pass
6	0.1756	0.1756	100.0	Pass
7	0.2986	0.2986	100.0	Pass
8	0.2996	0.2996	100.0	Pass
9	0.2655	0.2655	100.0	Pass
10	0.2620	0.2620	100.0	Pass
11	0.3641	0.3641	100.0	Pass
12	0.3089	0.3089	100.0	Pass
13	0.3234	0.3234	100.0	Pass
14	0.2736	0.2736	100.0	Pass
15	0.2938	0.2938	100.0	Pass

16	0.1595	0.1595	100.0	Pass
17	0.2254	0.2254	100.0	Pass
18	0.2601	0.2601	100.0	Pass
19	0.1369	0.1369	100.0	Pass
20	0.1346	0.1346	100.0	Pass
21	0.2316	0.2316	100.0	Pass
22	0.1914	0.1914	100.0	Pass
23	0.1663	0.1663	100.0	Pass
24	0.1336	0.1336	100.0	Pass
25	0.1633	0.1633	100.0	Pass
26	0.2744	0.2744	100.0	Pass
27	0.2101	0.2101	100.0	Pass
28	0.2197	0.2197	100.0	Pass
29	0.1034	0.1034	100.0	Pass
30	0.1424	0.1424	100.0	Pass
May1	0.2238	0.2238	100.0	Pass
2	0.1594	0.1594	100.0	Pass
3	0.1720	0.1720	100.0	Pass
4	0.1342	0.1342	100.0	Pass
5	0.1298	0.1298	100.0	Pass
6	0.1097	0.1097	100.0	Pass
7	0.1471	0.1471	100.0	Pass
8	0.0882	0.0882	100.0	Pass
9	0.1264	0.1264	100.0	Pass
10	0.1006	0.1006	100.0	Pass
11	0.0948	0.0948	100.0	Pass
12	0.1362	0.1362	100.0	Pass
13	0.1465	0.1465	100.0	Pass
14	0.1433	0.1433	100.0	Pass
15	0.0933	0.0933	100.0	Pass
16	0.1243	0.1243	100.0	Pass
17	0.1006	0.1006	100.0	Pass
18	0.1668	0.1668	100.0	Pass
19	0.0851	0.0851	100.0	Pass
20	0.0842	0.0842	100.0	Pass
21	0.0860	0.0860	100.0	Pass
22	0.1070	0.1070	100.0	Pass
23	0.0930	0.0930	100.0	Pass
24	0.0976	0.0976	100.0	Pass
25	0.0811	0.0811	100.0	Pass
26	0.1436	0.1436	100.0	Pass
27	0.1111	0.1111	100.0	Pass
28	0.1210	0.1210	100.0	Pass
29	0.1653	0.1653	100.0	Pass
30	0.1051	0.1051	100.0	Pass
31	0.1151	0.1151	100.0	Pass
Jun1	0.0852	0.0852	100.0	Pass
2	0.1456	0.1456	100.0	Pass
3	0.1373	0.1373	100.0	Pass
4	0.0970	0.0970	100.0	Pass
5	0.1655	0.1655	100.0	Pass
6	0.0593	0.0593	100.0	Pass
7	0.0943	0.0943	100.0	Pass
8	0.1343	0.1343	100.0	Pass
9	0.1000	0.1000	100.0	Pass
10	0.0957	0.0957	100.0	Pass
11	0.0687	0.0687	100.0	Pass

12	0.0851	0.0851	100.0	Pass
13	0.1364	0.1364	100.0	Pass
14	0.0538	0.0538	100.0	Pass
15	0.1112	0.1112	100.0	Pass
16	0.0469	0.0469	100.0	Pass
17	0.0685	0.0685	100.0	Pass
18	0.0452	0.0452	100.0	Pass
19	0.0556	0.0556	100.0	Pass
20	0.0612	0.0612	100.0	Pass
21	0.0608	0.0608	100.0	Pass
22	0.0324	0.0324	100.0	Pass
23	0.1740	0.1740	100.0	Pass
24	0.0433	0.0433	100.0	Pass
25	0.0756	0.0756	100.0	Pass
26	0.0448	0.0448	100.0	Pass
27	0.0409	0.0409	100.0	Pass
28	0.0424	0.0424	100.0	Pass
29	0.0563	0.0563	100.0	Pass
30	0.1219	0.1219	100.0	Pass
Jul1	0.0288	0.0288	100.0	Pass
2	0.0253	0.0253	100.0	Pass
3	0.0282	0.0282	100.0	Pass
4	0.0700	0.0700	100.0	Pass
5	0.0520	0.0520	100.0	Pass
6	0.0393	0.0393	100.0	Pass
7	0.0760	0.0760	100.0	Pass
8	0.0418	0.0418	100.0	Pass
9	0.0900	0.0900	100.0	Pass
10	0.0577	0.0577	100.0	Pass
11	0.1183	0.1183	100.0	Pass
12	0.0570	0.0570	100.0	Pass
13	0.0427	0.0427	100.0	Pass
14	0.0685	0.0685	100.0	Pass
15	0.0266	0.0266	100.0	Pass
16	0.0169	0.0169	100.0	Pass
17	0.0595	0.0595	100.0	Pass
18	0.0189	0.0189	100.0	Pass
19	0.0242	0.0242	100.0	Pass
20	0.0434	0.0434	100.0	Pass
21	0.0339	0.0339	100.0	Pass
22	0.0024	0.0024	100.0	Pass
23	0.0097	0.0097	100.0	Pass
24	0.0113	0.0113	100.0	Pass
25	0.0255	0.0255	100.0	Pass
26	0.0105	0.0105	100.0	Pass
27	0.0160	0.0160	100.0	Pass
28	0.0131	0.0131	100.0	Pass
29	0.0083	0.0083	100.0	Pass
30	0.0147	0.0147	100.0	Pass
31	0.0171	0.0171	100.0	Pass
Aug1	0.0701	0.0701	100.0	Pass
2	0.0236	0.0236	100.0	Pass
3	0.0086	0.0086	100.0	Pass
4	0.0089	0.0089	100.0	Pass
5	0.0793	0.0793	100.0	Pass
6	0.0524	0.0524	100.0	Pass
7	0.0183	0.0183	100.0	Pass

8	0.0191	0.0191	100.0	Pass
9	0.0012	0.0012	100.0	Pass
10	0.0101	0.0101	100.0	Pass
11	0.0511	0.0511	100.0	Pass
12	0.0435	0.0435	100.0	Pass
13	0.0547	0.0547	100.0	Pass
14	0.0330	0.0330	100.0	Pass
15	0.0293	0.0293	100.0	Pass
16	0.0253	0.0253	100.0	Pass
17	0.0504	0.0504	100.0	Pass
18	0.0974	0.0974	100.0	Pass
19	0.0259	0.0259	100.0	Pass
20	0.0753	0.0753	100.0	Pass
21	0.0687	0.0687	100.0	Pass
22	0.1344	0.1344	100.0	Pass
23	0.1251	0.1251	100.0	Pass
24	0.1065	0.1065	100.0	Pass
25	0.0417	0.0417	100.0	Pass
26	0.1294	0.1294	100.0	Pass
27	0.1312	0.1312	100.0	Pass
28	0.1308	0.1308	100.0	Pass
29	0.0818	0.0818	100.0	Pass
30	0.1343	0.1343	100.0	Pass
31	0.2127	0.2127	100.0	Pass
Sep1	0.0793	0.0793	100.0	Pass
2	0.0825	0.0825	100.0	Pass
3	0.0900	0.0900	100.0	Pass
4	0.1140	0.1140	100.0	Pass
5	0.0972	0.0972	100.0	Pass
6	0.0661	0.0661	100.0	Pass
7	0.1315	0.1315	100.0	Pass
8	0.0824	0.0824	100.0	Pass
9	0.2139	0.2139	100.0	Pass
10	0.0486	0.0486	100.0	Pass
11	0.0416	0.0416	100.0	Pass
12	0.1129	0.1129	100.0	Pass
13	0.2117	0.2117	100.0	Pass
14	0.1330	0.1330	100.0	Pass
15	0.2030	0.2030	100.0	Pass
16	0.2137	0.2137	100.0	Pass
17	0.2338	0.2338	100.0	Pass
18	0.2102	0.2102	100.0	Pass
19	0.2240	0.2240	100.0	Pass
20	0.1617	0.1617	100.0	Pass
21	0.2253	0.2253	100.0	Pass
22	0.1801	0.1801	100.0	Pass
23	0.1421	0.1421	100.0	Pass
24	0.1019	0.1019	100.0	Pass
25	0.1093	0.1093	100.0	Pass
26	0.1105	0.1105	100.0	Pass
27	0.1505	0.1505	100.0	Pass
28	0.1310	0.1310	100.0	Pass
29	0.1744	0.1744	100.0	Pass
30	0.1247	0.1247	100.0	Pass
Oct1	0.0868	0.0868	100.0	Pass
2	0.2255	0.2255	100.0	Pass
3	0.2003	0.2003	100.0	Pass

4	0.2442	0.2442	100.0	Pass
5	0.2590	0.2590	100.0	Pass
6	0.2867	0.2867	100.0	Pass
7	0.3664	0.3664	100.0	Pass
8	0.2960	0.2960	100.0	Pass
9	0.2288	0.2288	100.0	Pass
10	0.1866	0.1866	100.0	Pass
11	0.3600	0.3600	100.0	Pass
12	0.2390	0.2390	100.0	Pass
13	0.3368	0.3368	100.0	Pass
14	0.1883	0.1883	100.0	Pass
15	0.2249	0.2249	100.0	Pass
16	0.3042	0.3042	100.0	Pass
17	0.2772	0.2772	100.0	Pass
18	0.4463	0.4463	100.0	Pass
19	0.5484	0.5484	100.0	Pass
20	0.4722	0.4722	100.0	Pass
21	0.5710	0.5710	100.0	Pass
22	0.3307	0.3307	100.0	Pass
23	0.5555	0.5555	100.0	Pass
24	0.4851	0.4851	100.0	Pass
25	0.4329	0.4329	100.0	Pass
26	0.5271	0.5271	100.0	Pass
27	0.4448	0.4448	100.0	Pass
28	0.4143	0.4143	100.0	Pass
29	0.3489	0.3489	100.0	Pass
30	0.5227	0.5227	100.0	Pass
31	0.4372	0.4372	100.0	Pass
Nov1	0.5537	0.5537	100.0	Pass
2	0.6732	0.6732	100.0	Pass
3	0.5165	0.5165	100.0	Pass
4	0.5267	0.5267	100.0	Pass
5	0.5827	0.5827	100.0	Pass
6	0.4837	0.4837	100.0	Pass
7	0.4387	0.4387	100.0	Pass
8	0.5719	0.5719	100.0	Pass
9	0.6752	0.6752	100.0	Pass
10	0.5751	0.5751	100.0	Pass
11	0.6448	0.6448	100.0	Pass
12	0.5960	0.5960	100.0	Pass
13	0.4407	0.4407	100.0	Pass
14	0.5222	0.5222	100.0	Pass
15	0.5878	0.5878	100.0	Pass
16	0.6141	0.6141	100.0	Pass
17	0.5590	0.5590	100.0	Pass
18	0.8282	0.8282	100.0	Pass
19	0.7353	0.7353	100.0	Pass
20	0.4805	0.4805	100.0	Pass
21	0.7687	0.7687	100.0	Pass
22	0.9118	0.9118	100.0	Pass
23	0.6853	0.6853	100.0	Pass
24	0.7887	0.7887	100.0	Pass
25	0.5124	0.5124	100.0	Pass
26	0.4164	0.4164	100.0	Pass
27	0.5143	0.5143	100.0	Pass
28	0.4902	0.4902	100.0	Pass
29	0.8216	0.8216	100.0	Pass

30	0.6478	0.6478	100.0	Pass
Dec1	0.7185	0.7185	100.0	Pass
2	0.6930	0.6930	100.0	Pass
3	0.4386	0.4386	100.0	Pass
4	0.4927	0.4927	100.0	Pass
5	0.4205	0.4205	100.0	Pass
6	0.3662	0.3662	100.0	Pass
7	0.5344	0.5344	100.0	Pass
8	0.6718	0.6718	100.0	Pass
9	0.6623	0.6623	100.0	Pass
10	0.7138	0.7138	100.0	Pass
11	0.5167	0.5167	100.0	Pass
12	0.5631	0.5631	100.0	Pass
13	0.8465	0.8465	100.0	Pass
14	0.5763	0.5763	100.0	Pass
15	0.7645	0.7645	100.0	Pass
16	0.5061	0.5061	100.0	Pass
17	0.6119	0.6119	100.0	Pass
18	0.5002	0.5002	100.0	Pass
19	0.5932	0.5932	100.0	Pass
20	0.5781	0.5781	100.0	Pass
21	0.6364	0.6364	100.0	Pass
22	0.6270	0.6270	100.0	Pass
23	0.6823	0.6823	100.0	Pass
24	0.7582	0.7582	100.0	Pass
25	0.6513	0.6513	100.0	Pass
26	0.5929	0.5929	100.0	Pass
27	0.3948	0.3948	100.0	Pass
28	0.6371	0.6371	100.0	Pass
29	0.4125	0.4125	100.0	Pass
30	0.4351	0.4351	100.0	Pass
31	0.7428	0.7428	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #5

Total Pervious Area:0.491
Total Impervious Area:1.187

Mitigated Landuse Totals for POC #5

Total Pervious Area:0.491
Total Impervious Area:1.187

Flow Frequency Return Periods for Predeveloped. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.941761
5 year	1.13749
10 year	1.244673
25 year	1.361481
50 year	1.437834

100 year 1.506824

Flow Frequency Return Periods for Mitigated. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.941761
5 year	1.13749
10 year	1.244673
25 year	1.361481
50 year	1.437834
100 year	1.506824

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #5

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.034	1.034
1957	1.235	1.235
1958	0.926	0.926
1959	0.983	0.983
1960	1.028	1.028
1961	0.761	0.761
1962	1.353	1.353
1963	1.224	1.224
1964	1.031	1.031
1965	1.042	1.042
1966	1.042	1.042
1967	0.630	0.630
1968	0.984	0.984
1969	0.954	0.954
1970	0.845	0.845
1971	1.377	1.377
1972	1.177	1.177
1973	1.045	1.045
1974	1.046	1.046
1975	0.906	0.906
1976	1.117	1.117
1977	0.789	0.789
1978	1.379	1.379
1979	0.876	0.876
1980	0.794	0.794
1981	1.010	1.010
1982	1.164	1.164
1983	0.921	0.921
1984	0.878	0.878
1985	0.615	0.615
1986	1.048	1.048
1987	0.726	0.726
1988	1.118	1.118
1989	0.915	0.915
1990	1.237	1.237
1991	0.748	0.748
1992	0.590	0.590
1993	0.653	0.653
1994	0.884	0.884
1995	0.791	0.791
1996	0.978	0.978
1997	1.012	1.012

1998	0.621	0.621
1999	0.800	0.800
2000	0.732	0.732
2001	0.681	0.681
2002	1.002	1.002
2003	1.330	1.330
2004	1.218	1.218
2005	0.946	0.946
2006	0.973	0.973
2007	1.158	1.158
2008	0.567	0.567
2009	0.531	0.531

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	1.3792	1.3792
2	1.3766	1.3766
3	1.3527	1.3527
4	1.3305	1.3305
5	1.2375	1.2375
6	1.2347	1.2347
7	1.2237	1.2237
8	1.2175	1.2175
9	1.1773	1.1773
10	1.1639	1.1639
11	1.1577	1.1577
12	1.1181	1.1181
13	1.1174	1.1174
14	1.0479	1.0479
15	1.0460	1.0460
16	1.0449	1.0449
17	1.0423	1.0423
18	1.0423	1.0423
19	1.0336	1.0336
20	1.0306	1.0306
21	1.0280	1.0280
22	1.0124	1.0124
23	1.0097	1.0097
24	1.0025	1.0025
25	0.9836	0.9836
26	0.9830	0.9830
27	0.9776	0.9776
28	0.9727	0.9727
29	0.9539	0.9539
30	0.9462	0.9462
31	0.9264	0.9264
32	0.9207	0.9207
33	0.9151	0.9151
34	0.9064	0.9064
35	0.8839	0.8839
36	0.8782	0.8782
37	0.8760	0.8760
38	0.8448	0.8448
39	0.8000	0.8000
40	0.7944	0.7944

41	0.7907	0.7907
42	0.7892	0.7892
43	0.7613	0.7613
44	0.7478	0.7478
45	0.7322	0.7322
46	0.7256	0.7256
47	0.6812	0.6812
48	0.6528	0.6528
49	0.6303	0.6303
50	0.6211	0.6211
51	0.6155	0.6155
52	0.5904	0.5904
53	0.5672	0.5672
54	0.5305	0.5305

Stream Protection Duration

POC #5

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.4709	967	967	100	Pass
0.4806	891	891	100	Pass
0.4904	819	819	100	Pass
0.5002	774	774	100	Pass
0.5099	725	725	100	Pass
0.5197	664	664	100	Pass
0.5295	606	606	100	Pass
0.5393	573	573	100	Pass
0.5490	535	535	100	Pass
0.5588	496	496	100	Pass
0.5686	460	460	100	Pass
0.5783	428	428	100	Pass
0.5881	401	401	100	Pass
0.5979	384	384	100	Pass
0.6076	353	353	100	Pass
0.6174	330	330	100	Pass
0.6272	306	306	100	Pass
0.6369	289	289	100	Pass
0.6467	270	270	100	Pass
0.6565	250	250	100	Pass
0.6662	232	232	100	Pass
0.6760	223	223	100	Pass
0.6858	211	211	100	Pass
0.6955	201	201	100	Pass
0.7053	188	188	100	Pass
0.7151	176	176	100	Pass
0.7248	169	169	100	Pass
0.7346	161	161	100	Pass
0.7444	151	151	100	Pass
0.7541	142	142	100	Pass
0.7639	136	136	100	Pass
0.7737	132	132	100	Pass
0.7834	126	126	100	Pass
0.7932	115	115	100	Pass

0.8030	108	108	100	Pass
0.8127	101	101	100	Pass
0.8225	95	95	100	Pass
0.8323	93	93	100	Pass
0.8420	90	90	100	Pass
0.8518	87	87	100	Pass
0.8616	81	81	100	Pass
0.8713	80	80	100	Pass
0.8811	74	74	100	Pass
0.8909	72	72	100	Pass
0.9006	69	69	100	Pass
0.9104	65	65	100	Pass
0.9202	60	60	100	Pass
0.9299	53	53	100	Pass
0.9397	51	51	100	Pass
0.9495	50	50	100	Pass
0.9592	48	48	100	Pass
0.9690	47	47	100	Pass
0.9788	44	44	100	Pass
0.9885	42	42	100	Pass
0.9983	41	41	100	Pass
1.0081	38	38	100	Pass
1.0178	35	35	100	Pass
1.0276	35	35	100	Pass
1.0374	31	31	100	Pass
1.0471	27	27	100	Pass
1.0569	24	24	100	Pass
1.0667	24	24	100	Pass
1.0764	24	24	100	Pass
1.0862	23	23	100	Pass
1.0960	22	22	100	Pass
1.1057	20	20	100	Pass
1.1155	19	19	100	Pass
1.1253	16	16	100	Pass
1.1351	15	15	100	Pass
1.1448	15	15	100	Pass
1.1546	14	14	100	Pass
1.1644	12	12	100	Pass
1.1741	11	11	100	Pass
1.1839	10	10	100	Pass
1.1937	10	10	100	Pass
1.2034	10	10	100	Pass
1.2132	10	10	100	Pass
1.2230	9	9	100	Pass
1.2327	8	8	100	Pass
1.2425	6	6	100	Pass
1.2523	6	6	100	Pass
1.2620	6	6	100	Pass
1.2718	5	5	100	Pass
1.2816	5	5	100	Pass
1.2913	5	5	100	Pass
1.3011	5	5	100	Pass
1.3109	4	4	100	Pass
1.3206	4	4	100	Pass
1.3304	4	4	100	Pass
1.3402	3	3	100	Pass
1.3499	3	3	100	Pass

1.3597	2	2	100	Pass
1.3695	2	2	100	Pass
1.3792	1	1	100	Pass
1.3890	0	0	100	Pass
1.3988	0	0	0	Pass
1.4085	0	0	0	Pass
1.4183	0	0	0	Pass
1.4281	0	0	0	Pass
1.4378	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #5

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 5

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	62.6180	62.6180	100.0	Pass
Feb	48.0328	48.0328	100.0	Pass
Mar	42.4582	42.4582	100.0	Pass
Apr	23.4161	23.4161	100.0	Pass
May	12.1731	12.1731	100.0	Pass
Jun	7.9580	7.9580	100.0	Pass
Jul	3.8742	3.8742	100.0	Pass
Aug	5.7485	5.7485	100.0	Pass
Sep	13.4270	13.4270	100.0	Pass
Oct	33.7392	33.7392	100.0	Pass
Nov	58.8996	58.8996	100.0	Pass
Dec	60.4156	60.4156	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	2.0038	2.0038	100.0	Pass
2	1.5970	1.5970	100.0	Pass
3	2.0005	2.0005	100.0	Pass
4	2.3280	2.3280	100.0	Pass
5	1.7378	1.7378	100.0	Pass
6	2.5395	2.5395	100.0	Pass
7	2.0170	2.0170	100.0	Pass
8	2.0140	2.0140	100.0	Pass
9	2.1294	2.1294	100.0	Pass
10	2.0868	2.0868	100.0	Pass
11	2.5315	2.5315	100.0	Pass
12	2.0243	2.0243	100.0	Pass
13	2.5073	2.5073	100.0	Pass
14	2.5144	2.5144	100.0	Pass
15	2.3069	2.3069	100.0	Pass
16	1.9215	1.9215	100.0	Pass
17	1.8322	1.8322	100.0	Pass
18	1.6186	1.6186	100.0	Pass
19	1.6001	1.6001	100.0	Pass

20	1.0792	1.0792	100.0	Pass
21	1.9460	1.9460	100.0	Pass
22	2.3919	2.3919	100.0	Pass
23	2.6948	2.6948	100.0	Pass
24	1.8919	1.8919	100.0	Pass
25	1.6053	1.6053	100.0	Pass
26	1.4486	1.4486	100.0	Pass
27	1.7822	1.7822	100.0	Pass
28	2.2559	2.2559	100.0	Pass
29	1.7630	1.7630	100.0	Pass
30	2.0508	2.0508	100.0	Pass
31	1.2785	1.2785	100.0	Pass
Feb1	1.4236	1.4236	100.0	Pass
2	1.2930	1.2930	100.0	Pass
3	1.1750	1.1750	100.0	Pass
4	1.0887	1.0887	100.0	Pass
5	1.9438	1.9438	100.0	Pass
6	1.0432	1.0432	100.0	Pass
7	1.4505	1.4505	100.0	Pass
8	1.1228	1.1228	100.0	Pass
9	1.3223	1.3223	100.0	Pass
10	1.7468	1.7468	100.0	Pass
11	2.3141	2.3141	100.0	Pass
12	1.8536	1.8536	100.0	Pass
13	1.9662	1.9662	100.0	Pass
14	2.7116	2.7116	100.0	Pass
15	2.0426	2.0426	100.0	Pass
16	2.6144	2.6144	100.0	Pass
17	2.3309	2.3309	100.0	Pass
18	1.8765	1.8765	100.0	Pass
19	1.6263	1.6263	100.0	Pass
20	1.5581	1.5581	100.0	Pass
21	1.2771	1.2771	100.0	Pass
22	1.8258	1.8258	100.0	Pass
23	1.7488	1.7488	100.0	Pass
24	1.9230	1.9230	100.0	Pass
25	1.7344	1.7344	100.0	Pass
26	1.7141	1.7141	100.0	Pass
27	1.5071	1.5071	100.0	Pass
28	2.0215	2.0215	100.0	Pass
29	1.4424	1.4424	100.0	Pass
Mar1	1.4143	1.4143	100.0	Pass
2	1.1674	1.1674	100.0	Pass
3	1.6112	1.6112	100.0	Pass
4	1.6939	1.6939	100.0	Pass
5	1.3474	1.3474	100.0	Pass
6	1.6920	1.6920	100.0	Pass
7	1.6498	1.6498	100.0	Pass
8	1.6134	1.6134	100.0	Pass
9	1.6181	1.6181	100.0	Pass
10	1.4221	1.4221	100.0	Pass
11	1.5323	1.5323	100.0	Pass
12	1.3593	1.3593	100.0	Pass
13	1.6351	1.6351	100.0	Pass
14	1.3145	1.3145	100.0	Pass
15	1.0732	1.0732	100.0	Pass
16	1.0253	1.0253	100.0	Pass

17	1.3787	1.3787	100.0	Pass
18	0.8638	0.8638	100.0	Pass
19	1.2568	1.2568	100.0	Pass
20	1.0246	1.0246	100.0	Pass
21	1.6906	1.6906	100.0	Pass
22	1.9033	1.9033	100.0	Pass
23	1.6079	1.6079	100.0	Pass
24	1.0599	1.0599	100.0	Pass
25	1.5654	1.5654	100.0	Pass
26	1.1671	1.1671	100.0	Pass
27	1.1034	1.1034	100.0	Pass
28	1.2366	1.2366	100.0	Pass
29	1.1318	1.1318	100.0	Pass
30	0.8597	0.8597	100.0	Pass
31	0.6922	0.6922	100.0	Pass
Apr1	0.7302	0.7302	100.0	Pass
2	0.8145	0.8145	100.0	Pass
3	1.1003	1.1003	100.0	Pass
4	1.0132	1.0132	100.0	Pass
5	1.0990	1.0990	100.0	Pass
6	0.6073	0.6073	100.0	Pass
7	0.9644	0.9644	100.0	Pass
8	0.9822	0.9822	100.0	Pass
9	0.8682	0.8682	100.0	Pass
10	0.8676	0.8676	100.0	Pass
11	1.1633	1.1633	100.0	Pass
12	1.0155	1.0155	100.0	Pass
13	1.0535	1.0535	100.0	Pass
14	0.9072	0.9072	100.0	Pass
15	0.9705	0.9705	100.0	Pass
16	0.5541	0.5541	100.0	Pass
17	0.7357	0.7357	100.0	Pass
18	0.8416	0.8416	100.0	Pass
19	0.4729	0.4729	100.0	Pass
20	0.4478	0.4478	100.0	Pass
21	0.7369	0.7369	100.0	Pass
22	0.6193	0.6193	100.0	Pass
23	0.5469	0.5469	100.0	Pass
24	0.4427	0.4427	100.0	Pass
25	0.5246	0.5246	100.0	Pass
26	0.8786	0.8786	100.0	Pass
27	0.6891	0.6891	100.0	Pass
28	0.7197	0.7197	100.0	Pass
29	0.3601	0.3601	100.0	Pass
30	0.4604	0.4604	100.0	Pass
May1	0.7041	0.7041	100.0	Pass
2	0.5220	0.5220	100.0	Pass
3	0.5520	0.5520	100.0	Pass
4	0.4409	0.4409	100.0	Pass
5	0.4218	0.4218	100.0	Pass
6	0.3556	0.3556	100.0	Pass
7	0.4675	0.4675	100.0	Pass
8	0.2915	0.2915	100.0	Pass
9	0.4002	0.4002	100.0	Pass
10	0.3215	0.3215	100.0	Pass
11	0.3014	0.3014	100.0	Pass
12	0.4295	0.4295	100.0	Pass

13	0.4616	0.4616	100.0	Pass
14	0.4514	0.4514	100.0	Pass
15	0.3084	0.3084	100.0	Pass
16	0.3921	0.3921	100.0	Pass
17	0.3238	0.3238	100.0	Pass
18	0.5163	0.5163	100.0	Pass
19	0.2777	0.2777	100.0	Pass
20	0.2669	0.2669	100.0	Pass
21	0.2727	0.2727	100.0	Pass
22	0.3321	0.3321	100.0	Pass
23	0.2943	0.2943	100.0	Pass
24	0.3093	0.3093	100.0	Pass
25	0.2598	0.2598	100.0	Pass
26	0.4468	0.4468	100.0	Pass
27	0.3534	0.3534	100.0	Pass
28	0.3808	0.3808	100.0	Pass
29	0.5195	0.5195	100.0	Pass
30	0.3396	0.3396	100.0	Pass
31	0.3700	0.3700	100.0	Pass
Jun1	0.2811	0.2811	100.0	Pass
2	0.4506	0.4506	100.0	Pass
3	0.4273	0.4273	100.0	Pass
4	0.3094	0.3094	100.0	Pass
5	0.5128	0.5128	100.0	Pass
6	0.2001	0.2001	100.0	Pass
7	0.3011	0.3011	100.0	Pass
8	0.4210	0.4210	100.0	Pass
9	0.3180	0.3180	100.0	Pass
10	0.2998	0.2998	100.0	Pass
11	0.2188	0.2188	100.0	Pass
12	0.2633	0.2633	100.0	Pass
13	0.4203	0.4203	100.0	Pass
14	0.1770	0.1770	100.0	Pass
15	0.3459	0.3459	100.0	Pass
16	0.1559	0.1559	100.0	Pass
17	0.2160	0.2160	100.0	Pass
18	0.1491	0.1491	100.0	Pass
19	0.1729	0.1729	100.0	Pass
20	0.1872	0.1872	100.0	Pass
21	0.1892	0.1892	100.0	Pass
22	0.1045	0.1045	100.0	Pass
23	0.5224	0.5224	100.0	Pass
24	0.1471	0.1471	100.0	Pass
25	0.2346	0.2346	100.0	Pass
26	0.1404	0.1404	100.0	Pass
27	0.1254	0.1254	100.0	Pass
28	0.1287	0.1287	100.0	Pass
29	0.1691	0.1691	100.0	Pass
30	0.3692	0.3692	100.0	Pass
Jul1	0.0950	0.0950	100.0	Pass
2	0.0798	0.0798	100.0	Pass
3	0.0859	0.0859	100.0	Pass
4	0.2067	0.2067	100.0	Pass
5	0.1552	0.1552	100.0	Pass
6	0.1179	0.1179	100.0	Pass
7	0.2301	0.2301	100.0	Pass
8	0.1326	0.1326	100.0	Pass

9	0.2723	0.2723	100.0	Pass
10	0.1792	0.1792	100.0	Pass
11	0.3682	0.3682	100.0	Pass
12	0.1948	0.1948	100.0	Pass
13	0.1419	0.1419	100.0	Pass
14	0.2126	0.2126	100.0	Pass
15	0.0864	0.0864	100.0	Pass
16	0.0543	0.0543	100.0	Pass
17	0.1811	0.1811	100.0	Pass
18	0.0634	0.0634	100.0	Pass
19	0.0758	0.0758	100.0	Pass
20	0.1309	0.1309	100.0	Pass
21	0.1055	0.1055	100.0	Pass
22	0.0110	0.0110	100.0	Pass
23	0.0302	0.0302	100.0	Pass
24	0.0341	0.0341	100.0	Pass
25	0.0752	0.0752	100.0	Pass
26	0.0310	0.0310	100.0	Pass
27	0.0470	0.0470	100.0	Pass
28	0.0389	0.0389	100.0	Pass
29	0.0251	0.0251	100.0	Pass
30	0.0432	0.0432	100.0	Pass
31	0.0503	0.0503	100.0	Pass
Aug1	0.2068	0.2068	100.0	Pass
2	0.0733	0.0733	100.0	Pass
3	0.0286	0.0286	100.0	Pass
4	0.0281	0.0281	100.0	Pass
5	0.2361	0.2361	100.0	Pass
6	0.1596	0.1596	100.0	Pass
7	0.0585	0.0585	100.0	Pass
8	0.0586	0.0586	100.0	Pass
9	0.0049	0.0049	100.0	Pass
10	0.0304	0.0304	100.0	Pass
11	0.1505	0.1505	100.0	Pass
12	0.1290	0.1290	100.0	Pass
13	0.1629	0.1629	100.0	Pass
14	0.1016	0.1016	100.0	Pass
15	0.0921	0.0921	100.0	Pass
16	0.0777	0.0777	100.0	Pass
17	0.1492	0.1492	100.0	Pass
18	0.2880	0.2880	100.0	Pass
19	0.0830	0.0830	100.0	Pass
20	0.2243	0.2243	100.0	Pass
21	0.2088	0.2088	100.0	Pass
22	0.4051	0.4051	100.0	Pass
23	0.3848	0.3848	100.0	Pass
24	0.3414	0.3414	100.0	Pass
25	0.1423	0.1423	100.0	Pass
26	0.3933	0.3933	100.0	Pass
27	0.4043	0.4043	100.0	Pass
28	0.4087	0.4087	100.0	Pass
29	0.2586	0.2586	100.0	Pass
30	0.4081	0.4081	100.0	Pass
31	0.6518	0.6518	100.0	Pass
Sep1	0.2662	0.2662	100.0	Pass
2	0.2656	0.2656	100.0	Pass
3	0.2831	0.2831	100.0	Pass

	4	0.3509	0.3509	100.0	Pass
	5	0.3020	0.3020	100.0	Pass
	6	0.2086	0.2086	100.0	Pass
	7	0.3971	0.3971	100.0	Pass
	8	0.2575	0.2575	100.0	Pass
	9	0.6441	0.6441	100.0	Pass
	10	0.1596	0.1596	100.0	Pass
	11	0.1317	0.1317	100.0	Pass
	12	0.3404	0.3404	100.0	Pass
	13	0.6414	0.6414	100.0	Pass
	14	0.4170	0.4170	100.0	Pass
	15	0.6243	0.6243	100.0	Pass
	16	0.6738	0.6738	100.0	Pass
	17	0.7271	0.7271	100.0	Pass
	18	0.6562	0.6562	100.0	Pass
	19	0.7070	0.7070	100.0	Pass
	20	0.5265	0.5265	100.0	Pass
	21	0.7214	0.7214	100.0	Pass
	22	0.5814	0.5814	100.0	Pass
	23	0.4575	0.4575	100.0	Pass
	24	0.3286	0.3286	100.0	Pass
	25	0.3422	0.3422	100.0	Pass
	26	0.3455	0.3455	100.0	Pass
	27	0.4732	0.4732	100.0	Pass
	28	0.4093	0.4093	100.0	Pass
	29	0.5379	0.5379	100.0	Pass
	30	0.3966	0.3966	100.0	Pass
Oct	1	0.2811	0.2811	100.0	Pass
	2	0.6857	0.6857	100.0	Pass
	3	0.6176	0.6176	100.0	Pass
	4	0.7597	0.7597	100.0	Pass
	5	0.8093	0.8093	100.0	Pass
	6	0.8928	0.8928	100.0	Pass
	7	1.1461	1.1461	100.0	Pass
	8	0.9445	0.9445	100.0	Pass
	9	0.7386	0.7386	100.0	Pass
	10	0.6049	0.6049	100.0	Pass
	11	1.1158	1.1158	100.0	Pass
	12	0.7654	0.7654	100.0	Pass
	13	1.0501	1.0501	100.0	Pass
	14	0.6208	0.6208	100.0	Pass
	15	0.7200	0.7200	100.0	Pass
	16	0.9674	0.9674	100.0	Pass
	17	0.8876	0.8876	100.0	Pass
	18	1.4132	1.4132	100.0	Pass
	19	1.7492	1.7492	100.0	Pass
	20	1.5161	1.5161	100.0	Pass
	21	1.8284	1.8284	100.0	Pass
	22	1.1114	1.1114	100.0	Pass
	23	1.7809	1.7809	100.0	Pass
	24	1.5746	1.5746	100.0	Pass
	25	1.4152	1.4152	100.0	Pass
	26	1.6997	1.6997	100.0	Pass
	27	1.4620	1.4620	100.0	Pass
	28	1.3588	1.3588	100.0	Pass
	29	1.1568	1.1568	100.0	Pass
	30	1.6728	1.6728	100.0	Pass

31	1.4346	1.4346	100.0	Pass
Nov1	1.7972	1.7972	100.0	Pass
2	2.1509	2.1509	100.0	Pass
3	1.7143	1.7143	100.0	Pass
4	1.7207	1.7207	100.0	Pass
5	1.9001	1.9001	100.0	Pass
6	1.6070	1.6070	100.0	Pass
7	1.4550	1.4550	100.0	Pass
8	1.8459	1.8459	100.0	Pass
9	2.1840	2.1840	100.0	Pass
10	1.8895	1.8895	100.0	Pass
11	2.1031	2.1031	100.0	Pass
12	1.9465	1.9465	100.0	Pass
13	1.4894	1.4894	100.0	Pass
14	1.7102	1.7102	100.0	Pass
15	1.9166	1.9166	100.0	Pass
16	2.0002	2.0002	100.0	Pass
17	1.8412	1.8412	100.0	Pass
18	2.6770	2.6770	100.0	Pass
19	2.4209	2.4209	100.0	Pass
20	1.6363	1.6363	100.0	Pass
21	2.5043	2.5043	100.0	Pass
22	2.9401	2.9401	100.0	Pass
23	2.2901	2.2901	100.0	Pass
24	2.5969	2.5969	100.0	Pass
25	1.7558	1.7558	100.0	Pass
26	1.4261	1.4261	100.0	Pass
27	1.6913	1.6913	100.0	Pass
28	1.6156	1.6156	100.0	Pass
29	2.6423	2.6423	100.0	Pass
30	2.1509	2.1509	100.0	Pass
Dec1	2.3589	2.3589	100.0	Pass
2	2.2994	2.2994	100.0	Pass
3	1.5032	1.5032	100.0	Pass
4	1.6369	1.6369	100.0	Pass
5	1.4180	1.4180	100.0	Pass
6	1.2230	1.2230	100.0	Pass
7	1.7303	1.7303	100.0	Pass
8	2.1718	2.1718	100.0	Pass
9	2.1751	2.1751	100.0	Pass
10	2.3524	2.3524	100.0	Pass
11	1.7365	1.7365	100.0	Pass
12	1.8638	1.8638	100.0	Pass
13	2.7308	2.7308	100.0	Pass
14	1.9482	1.9482	100.0	Pass
15	2.4961	2.4961	100.0	Pass
16	1.7255	1.7255	100.0	Pass
17	2.0205	2.0205	100.0	Pass
18	1.6746	1.6746	100.0	Pass
19	1.9383	1.9383	100.0	Pass
20	1.9146	1.9146	100.0	Pass
21	2.1076	2.1076	100.0	Pass
22	2.0703	2.0703	100.0	Pass
23	2.2439	2.2439	100.0	Pass
24	2.4742	2.4742	100.0	Pass
25	2.1786	2.1786	100.0	Pass
26	1.9903	1.9903	100.0	Pass

27	1.3528	1.3528	100.0	Pass
28	2.0770	2.0770	100.0	Pass
29	1.4080	1.4080	100.0	Pass
30	1.4479	1.4479	100.0	Pass
31	2.4022	2.4022	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #6

Total Pervious Area:0
 Total Impervious Area:0.688

Mitigated Landuse Totals for POC #6

Total Pervious Area:0
 Total Impervious Area:0.688

Flow Frequency Return Periods for Predeveloped. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.451724
5 year	0.532718
10 year	0.577422
25 year	0.626627
50 year	0.659144
100 year	0.688813

Flow Frequency Return Periods for Mitigated. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.451724
5 year	0.532718
10 year	0.577422
25 year	0.626627
50 year	0.659144
100 year	0.688813

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #6

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.466	0.466
1957	0.585	0.585
1958	0.455	0.455
1959	0.451	0.451
1960	0.466	0.466
1961	0.395	0.395
1962	0.610	0.610
1963	0.560	0.560
1964	0.497	0.497
1965	0.487	0.487
1966	0.474	0.474
1967	0.314	0.314

1968	0.459	0.459
1969	0.432	0.432
1970	0.425	0.425
1971	0.628	0.628
1972	0.526	0.526
1973	0.499	0.499
1974	0.473	0.473
1975	0.427	0.427
1976	0.518	0.518
1977	0.382	0.382
1978	0.654	0.654
1979	0.411	0.411
1980	0.384	0.384
1981	0.486	0.486
1982	0.562	0.562
1983	0.442	0.442
1984	0.411	0.411
1985	0.326	0.326
1986	0.492	0.492
1987	0.347	0.347
1988	0.524	0.524
1989	0.440	0.440
1990	0.563	0.563
1991	0.395	0.395
1992	0.305	0.305
1993	0.336	0.336
1994	0.424	0.424
1995	0.431	0.431
1996	0.522	0.522
1997	0.494	0.494
1998	0.322	0.322
1999	0.388	0.388
2000	0.369	0.369
2001	0.352	0.352
2002	0.569	0.569
2003	0.598	0.598
2004	0.562	0.562
2005	0.448	0.448
2006	0.454	0.454
2007	0.530	0.530
2008	0.289	0.289
2009	0.276	0.276

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	0.6540	0.6540
2	0.6277	0.6277
3	0.6101	0.6101
4	0.5976	0.5976
5	0.5846	0.5846
6	0.5685	0.5685
7	0.5634	0.5634
8	0.5625	0.5625
9	0.5617	0.5617
10	0.5602	0.5602

11	0.5299	0.5299
12	0.5258	0.5258
13	0.5239	0.5239
14	0.5216	0.5216
15	0.5185	0.5185
16	0.4991	0.4991
17	0.4966	0.4966
18	0.4940	0.4940
19	0.4924	0.4924
20	0.4873	0.4873
21	0.4860	0.4860
22	0.4736	0.4736
23	0.4731	0.4731
24	0.4660	0.4660
25	0.4657	0.4657
26	0.4589	0.4589
27	0.4554	0.4554
28	0.4535	0.4535
29	0.4511	0.4511
30	0.4483	0.4483
31	0.4420	0.4420
32	0.4403	0.4403
33	0.4316	0.4316
34	0.4309	0.4309
35	0.4274	0.4274
36	0.4253	0.4253
37	0.4242	0.4242
38	0.4110	0.4110
39	0.4108	0.4108
40	0.3952	0.3952
41	0.3949	0.3949
42	0.3883	0.3883
43	0.3837	0.3837
44	0.3822	0.3822
45	0.3686	0.3686
46	0.3523	0.3523
47	0.3467	0.3467
48	0.3359	0.3359
49	0.3255	0.3255
50	0.3222	0.3222
51	0.3141	0.3141
52	0.3054	0.3054
53	0.2892	0.2892
54	0.2765	0.2765

Stream Protection Duration

POC #6

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2259	1258	1258	100	Pass
0.2302	1165	1165	100	Pass
0.2346	1083	1083	100	Pass
0.2390	1026	1026	100	Pass

0.2434	946	946	100	Pass
0.2477	889	889	100	Pass
0.2521	814	814	100	Pass
0.2565	760	760	100	Pass
0.2609	701	701	100	Pass
0.2653	653	653	100	Pass
0.2696	602	602	100	Pass
0.2740	551	551	100	Pass
0.2784	513	513	100	Pass
0.2828	483	483	100	Pass
0.2871	437	437	100	Pass
0.2915	409	409	100	Pass
0.2959	380	380	100	Pass
0.3003	355	355	100	Pass
0.3046	334	334	100	Pass
0.3090	309	309	100	Pass
0.3134	295	295	100	Pass
0.3178	278	278	100	Pass
0.3221	259	259	100	Pass
0.3265	248	248	100	Pass
0.3309	234	234	100	Pass
0.3353	221	221	100	Pass
0.3397	210	210	100	Pass
0.3440	196	196	100	Pass
0.3484	187	187	100	Pass
0.3528	181	181	100	Pass
0.3572	168	168	100	Pass
0.3615	161	161	100	Pass
0.3659	154	154	100	Pass
0.3703	142	142	100	Pass
0.3747	135	135	100	Pass
0.3790	127	127	100	Pass
0.3834	116	116	100	Pass
0.3878	110	110	100	Pass
0.3922	105	105	100	Pass
0.3965	98	98	100	Pass
0.4009	97	97	100	Pass
0.4053	90	90	100	Pass
0.4097	87	87	100	Pass
0.4141	80	80	100	Pass
0.4184	76	76	100	Pass
0.4228	73	73	100	Pass
0.4272	68	68	100	Pass
0.4316	62	62	100	Pass
0.4359	60	60	100	Pass
0.4403	57	57	100	Pass
0.4447	53	53	100	Pass
0.4491	51	51	100	Pass
0.4534	48	48	100	Pass
0.4578	45	45	100	Pass
0.4622	42	42	100	Pass
0.4666	40	40	100	Pass
0.4710	37	37	100	Pass
0.4753	34	34	100	Pass
0.4797	34	34	100	Pass
0.4841	33	33	100	Pass
0.4885	30	30	100	Pass

0.4928	29	29	100	Pass
0.4972	26	26	100	Pass
0.5016	25	25	100	Pass
0.5060	25	25	100	Pass
0.5103	24	24	100	Pass
0.5147	24	24	100	Pass
0.5191	21	21	100	Pass
0.5235	20	20	100	Pass
0.5278	17	17	100	Pass
0.5322	14	14	100	Pass
0.5366	14	14	100	Pass
0.5410	13	13	100	Pass
0.5454	13	13	100	Pass
0.5497	12	12	100	Pass
0.5541	12	12	100	Pass
0.5585	12	12	100	Pass
0.5629	10	10	100	Pass
0.5672	8	8	100	Pass
0.5716	6	6	100	Pass
0.5760	6	6	100	Pass
0.5804	6	6	100	Pass
0.5847	6	6	100	Pass
0.5891	4	4	100	Pass
0.5935	4	4	100	Pass
0.5979	4	4	100	Pass
0.6022	3	3	100	Pass
0.6066	3	3	100	Pass
0.6110	2	2	100	Pass
0.6154	2	2	100	Pass
0.6198	2	2	100	Pass
0.6241	2	2	100	Pass
0.6285	1	1	100	Pass
0.6329	1	1	100	Pass
0.6373	1	1	100	Pass
0.6416	1	1	100	Pass
0.6460	1	1	100	Pass
0.6504	1	1	100	Pass
0.6548	0	0	100	Pass
0.6591	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #6

On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 6

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	27.4395	27.4395	100.0	Pass
Feb	20.9209	20.9209	100.0	Pass
Mar	18.5736	18.5736	100.0	Pass

Apr	10.4806	10.4806	100.0	Pass
May	5.8285	5.8285	100.0	Pass
Jun	3.9334	3.9334	100.0	Pass
Jul	1.9834	1.9834	100.0	Pass
Aug	3.0108	3.0108	100.0	Pass
Sep	6.6922	6.6922	100.0	Pass
Oct	15.9801	15.9801	100.0	Pass
Nov	26.3822	26.3822	100.0	Pass
Dec	26.4708	26.4708	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.8841	0.8841	100.0	Pass
2	0.6766	0.6766	100.0	Pass
3	0.8931	0.8931	100.0	Pass
4	1.0677	1.0677	100.0	Pass
5	0.7356	0.7356	100.0	Pass
6	1.1712	1.1712	100.0	Pass
7	0.8613	0.8613	100.0	Pass
8	0.8764	0.8764	100.0	Pass
9	0.9532	0.9532	100.0	Pass
10	0.9085	0.9085	100.0	Pass
11	1.1326	1.1326	100.0	Pass
12	0.8573	0.8573	100.0	Pass
13	1.1188	1.1188	100.0	Pass
14	1.1045	1.1045	100.0	Pass
15	0.9960	0.9960	100.0	Pass
16	0.7901	0.7901	100.0	Pass
17	0.7657	0.7657	100.0	Pass
18	0.6745	0.6745	100.0	Pass
19	0.6887	0.6887	100.0	Pass
20	0.4268	0.4268	100.0	Pass
21	0.9303	0.9303	100.0	Pass
22	1.0945	1.0945	100.0	Pass
23	1.2091	1.2091	100.0	Pass
24	0.7793	0.7793	100.0	Pass
25	0.6583	0.6583	100.0	Pass
26	0.5954	0.5954	100.0	Pass
27	0.7947	0.7947	100.0	Pass
28	1.0230	1.0230	100.0	Pass
29	0.7484	0.7484	100.0	Pass
30	0.9147	0.9147	100.0	Pass
31	0.5082	0.5082	100.0	Pass
Feb1	0.6087	0.6087	100.0	Pass
2	0.5622	0.5622	100.0	Pass
3	0.5019	0.5019	100.0	Pass
4	0.4647	0.4647	100.0	Pass
5	0.9122	0.9122	100.0	Pass
6	0.4089	0.4089	100.0	Pass
7	0.6533	0.6533	100.0	Pass
8	0.4776	0.4776	100.0	Pass
9	0.6018	0.6018	100.0	Pass
10	0.8129	0.8129	100.0	Pass
11	1.0602	1.0602	100.0	Pass
12	0.7909	0.7909	100.0	Pass
13	0.8721	0.8721	100.0	Pass
14	1.2571	1.2571	100.0	Pass
15	0.8556	0.8556	100.0	Pass

16	1.1762	1.1762	100.0	Pass
17	1.0083	1.0083	100.0	Pass
18	0.7611	0.7611	100.0	Pass
19	0.6681	0.6681	100.0	Pass
20	0.6522	0.6522	100.0	Pass
21	0.5336	0.5336	100.0	Pass
22	0.8211	0.8211	100.0	Pass
23	0.7693	0.7693	100.0	Pass
24	0.8506	0.8506	100.0	Pass
25	0.7454	0.7454	100.0	Pass
26	0.7298	0.7298	100.0	Pass
27	0.6332	0.6332	100.0	Pass
28	0.8758	0.8758	100.0	Pass
29	0.6177	0.6177	100.0	Pass
Mar1	0.6141	0.6141	100.0	Pass
2	0.4905	0.4905	100.0	Pass
3	0.7308	0.7308	100.0	Pass
4	0.7576	0.7576	100.0	Pass
5	0.5806	0.5806	100.0	Pass
6	0.7453	0.7453	100.0	Pass
7	0.7403	0.7403	100.0	Pass
8	0.7074	0.7074	100.0	Pass
9	0.7092	0.7092	100.0	Pass
10	0.6062	0.6062	100.0	Pass
11	0.6693	0.6693	100.0	Pass
12	0.5884	0.5884	100.0	Pass
13	0.7280	0.7280	100.0	Pass
14	0.5586	0.5586	100.0	Pass
15	0.4489	0.4489	100.0	Pass
16	0.4426	0.4426	100.0	Pass
17	0.6154	0.6154	100.0	Pass
18	0.3536	0.3536	100.0	Pass
19	0.5734	0.5734	100.0	Pass
20	0.4482	0.4482	100.0	Pass
21	0.7941	0.7941	100.0	Pass
22	0.8811	0.8811	100.0	Pass
23	0.6934	0.6934	100.0	Pass
24	0.4141	0.4141	100.0	Pass
25	0.7083	0.7083	100.0	Pass
26	0.4868	0.4868	100.0	Pass
27	0.4814	0.4814	100.0	Pass
28	0.5401	0.5401	100.0	Pass
29	0.4953	0.4953	100.0	Pass
30	0.3560	0.3560	100.0	Pass
31	0.2867	0.2867	100.0	Pass
Apr1	0.3192	0.3192	100.0	Pass
2	0.3673	0.3673	100.0	Pass
3	0.5238	0.5238	100.0	Pass
4	0.4573	0.4573	100.0	Pass
5	0.4839	0.4839	100.0	Pass
6	0.2393	0.2393	100.0	Pass
7	0.4483	0.4483	100.0	Pass
8	0.4407	0.4407	100.0	Pass
9	0.3921	0.3921	100.0	Pass
10	0.3803	0.3803	100.0	Pass
11	0.5540	0.5540	100.0	Pass
12	0.4527	0.4527	100.0	Pass

13	0.4800	0.4800	100.0	Pass
14	0.3963	0.3963	100.0	Pass
15	0.4279	0.4279	100.0	Pass
16	0.2158	0.2158	100.0	Pass
17	0.3336	0.3336	100.0	Pass
18	0.3893	0.3893	100.0	Pass
19	0.1868	0.1868	100.0	Pass
20	0.1940	0.1940	100.0	Pass
21	0.3541	0.3541	100.0	Pass
22	0.2866	0.2866	100.0	Pass
23	0.2436	0.2436	100.0	Pass
24	0.1938	0.1938	100.0	Pass
25	0.2466	0.2466	100.0	Pass
26	0.4163	0.4163	100.0	Pass
27	0.3088	0.3088	100.0	Pass
28	0.3237	0.3237	100.0	Pass
29	0.1394	0.1394	100.0	Pass
30	0.2133	0.2133	100.0	Pass
May1	0.3471	0.3471	100.0	Pass
2	0.2348	0.2348	100.0	Pass
3	0.2602	0.2602	100.0	Pass
4	0.1967	0.1967	100.0	Pass
5	0.1934	0.1934	100.0	Pass
6	0.1638	0.1638	100.0	Pass
7	0.2254	0.2254	100.0	Pass
8	0.1283	0.1283	100.0	Pass
9	0.1944	0.1944	100.0	Pass
10	0.1531	0.1531	100.0	Pass
11	0.1452	0.1452	100.0	Pass
12	0.2109	0.2109	100.0	Pass
13	0.2268	0.2268	100.0	Pass
14	0.2218	0.2218	100.0	Pass
15	0.1358	0.1358	100.0	Pass
16	0.1923	0.1923	100.0	Pass
17	0.1518	0.1518	100.0	Pass
18	0.2638	0.2638	100.0	Pass
19	0.1261	0.1261	100.0	Pass
20	0.1295	0.1295	100.0	Pass
21	0.1323	0.1323	100.0	Pass
22	0.1687	0.1687	100.0	Pass
23	0.1431	0.1431	100.0	Pass
24	0.1501	0.1501	100.0	Pass
25	0.1229	0.1229	100.0	Pass
26	0.2258	0.2258	100.0	Pass
27	0.1700	0.1700	100.0	Pass
28	0.1875	0.1875	100.0	Pass
29	0.2567	0.2567	100.0	Pass
30	0.1577	0.1577	100.0	Pass
31	0.1737	0.1737	100.0	Pass
Jun1	0.1243	0.1243	100.0	Pass
2	0.2304	0.2304	100.0	Pass
3	0.2158	0.2158	100.0	Pass
4	0.1481	0.1481	100.0	Pass
5	0.2614	0.2614	100.0	Pass
6	0.0840	0.0840	100.0	Pass
7	0.1435	0.1435	100.0	Pass
8	0.2093	0.2093	100.0	Pass

9	0.1533	0.1533	100.0	Pass
10	0.1493	0.1493	100.0	Pass
11	0.1050	0.1050	100.0	Pass
12	0.1348	0.1348	100.0	Pass
13	0.2168	0.2168	100.0	Pass
14	0.0787	0.0787	100.0	Pass
15	0.1748	0.1748	100.0	Pass
16	0.0676	0.0676	100.0	Pass
17	0.1059	0.1059	100.0	Pass
18	0.0660	0.0660	100.0	Pass
19	0.0875	0.0875	100.0	Pass
20	0.0980	0.0980	100.0	Pass
21	0.0956	0.0956	100.0	Pass
22	0.0487	0.0487	100.0	Pass
23	0.2852	0.2852	100.0	Pass
24	0.0607	0.0607	100.0	Pass
25	0.1192	0.1192	100.0	Pass
26	0.0699	0.0699	100.0	Pass
27	0.0655	0.0655	100.0	Pass
28	0.0685	0.0685	100.0	Pass
29	0.0921	0.0921	100.0	Pass
30	0.1979	0.1979	100.0	Pass
Jul1	0.0420	0.0420	100.0	Pass
2	0.0391	0.0391	100.0	Pass
3	0.0454	0.0454	100.0	Pass
4	0.1169	0.1169	100.0	Pass
5	0.0857	0.0857	100.0	Pass
6	0.0645	0.0645	100.0	Pass
7	0.1235	0.1235	100.0	Pass
8	0.0641	0.0641	100.0	Pass
9	0.1462	0.1462	100.0	Pass
10	0.0909	0.0909	100.0	Pass
11	0.1861	0.1861	100.0	Pass
12	0.0792	0.0792	100.0	Pass
13	0.0616	0.0616	100.0	Pass
14	0.1081	0.1081	100.0	Pass
15	0.0397	0.0397	100.0	Pass
16	0.0254	0.0254	100.0	Pass
17	0.0960	0.0960	100.0	Pass
18	0.0270	0.0270	100.0	Pass
19	0.0376	0.0376	100.0	Pass
20	0.0709	0.0709	100.0	Pass
21	0.0534	0.0534	100.0	Pass
22	0.0016	0.0016	100.0	Pass
23	0.0151	0.0151	100.0	Pass
24	0.0185	0.0185	100.0	Pass
25	0.0428	0.0428	100.0	Pass
26	0.0175	0.0175	100.0	Pass
27	0.0268	0.0268	100.0	Pass
28	0.0218	0.0218	100.0	Pass
29	0.0136	0.0136	100.0	Pass
30	0.0245	0.0245	100.0	Pass
31	0.0285	0.0285	100.0	Pass
Aug1	0.1171	0.1171	100.0	Pass
2	0.0371	0.0371	100.0	Pass
3	0.0124	0.0124	100.0	Pass
4	0.0137	0.0137	100.0	Pass

5	0.1310	0.1310	100.0	Pass
6	0.0843	0.0843	100.0	Pass
7	0.0278	0.0278	100.0	Pass
8	0.0306	0.0306	100.0	Pass
9	0.0012	0.0012	100.0	Pass
10	0.0165	0.0165	100.0	Pass
11	0.0854	0.0854	100.0	Pass
12	0.0721	0.0721	100.0	Pass
13	0.0903	0.0903	100.0	Pass
14	0.0524	0.0524	100.0	Pass
15	0.0454	0.0454	100.0	Pass
16	0.0403	0.0403	100.0	Pass
17	0.0837	0.0837	100.0	Pass
18	0.1624	0.1624	100.0	Pass
19	0.0394	0.0394	100.0	Pass
20	0.1244	0.1244	100.0	Pass
21	0.1111	0.1111	100.0	Pass
22	0.2194	0.2194	100.0	Pass
23	0.1992	0.1992	100.0	Pass
24	0.1614	0.1614	100.0	Pass
25	0.0581	0.0581	100.0	Pass
26	0.2092	0.2092	100.0	Pass
27	0.2086	0.2086	100.0	Pass
28	0.2045	0.2045	100.0	Pass
29	0.1260	0.1260	100.0	Pass
30	0.2171	0.2171	100.0	Pass
31	0.3404	0.3404	100.0	Pass
Sep1	0.1128	0.1128	100.0	Pass
2	0.1242	0.1242	100.0	Pass
3	0.1396	0.1396	100.0	Pass
4	0.1815	0.1815	100.0	Pass
5	0.1532	0.1532	100.0	Pass
6	0.1022	0.1022	100.0	Pass
7	0.2142	0.2142	100.0	Pass
8	0.1289	0.1289	100.0	Pass
9	0.3494	0.3494	100.0	Pass
10	0.0712	0.0712	100.0	Pass
11	0.0640	0.0640	100.0	Pass
12	0.1840	0.1840	100.0	Pass
13	0.3433	0.3433	100.0	Pass
14	0.2074	0.2074	100.0	Pass
15	0.3237	0.3237	100.0	Pass
16	0.3307	0.3307	100.0	Pass
17	0.3680	0.3680	100.0	Pass
18	0.3291	0.3291	100.0	Pass
19	0.3460	0.3460	100.0	Pass
20	0.2402	0.2402	100.0	Pass
21	0.3419	0.3419	100.0	Pass
22	0.2706	0.2706	100.0	Pass
23	0.2142	0.2142	100.0	Pass
24	0.1534	0.1534	100.0	Pass
25	0.1707	0.1707	100.0	Pass
26	0.1726	0.1726	100.0	Pass
27	0.2336	0.2336	100.0	Pass
28	0.2051	0.2051	100.0	Pass
29	0.2770	0.2770	100.0	Pass
30	0.1908	0.1908	100.0	Pass

Oct1	0.1298	0.1298	100.0	Pass
2	0.3643	0.3643	100.0	Pass
3	0.3183	0.3183	100.0	Pass
4	0.3839	0.3839	100.0	Pass
5	0.4052	0.4052	100.0	Pass
6	0.4502	0.4502	100.0	Pass
7	0.5724	0.5724	100.0	Pass
8	0.4512	0.4512	100.0	Pass
9	0.3435	0.3435	100.0	Pass
10	0.2788	0.2788	100.0	Pass
11	0.5685	0.5685	100.0	Pass
12	0.3627	0.3627	100.0	Pass
13	0.5282	0.5282	100.0	Pass
14	0.2751	0.2751	100.0	Pass
15	0.3413	0.3413	100.0	Pass
16	0.4656	0.4656	100.0	Pass
17	0.4205	0.4205	100.0	Pass
18	0.6868	0.6868	100.0	Pass
19	0.8363	0.8363	100.0	Pass
20	0.7142	0.7142	100.0	Pass
21	0.8666	0.8666	100.0	Pass
22	0.4702	0.4702	100.0	Pass
23	0.8418	0.8418	100.0	Pass
24	0.7234	0.7234	100.0	Pass
25	0.6394	0.6394	100.0	Pass
26	0.7927	0.7927	100.0	Pass
27	0.6523	0.6523	100.0	Pass
28	0.6092	0.6092	100.0	Pass
29	0.5054	0.5054	100.0	Pass
30	0.7939	0.7939	100.0	Pass
31	0.6426	0.6426	100.0	Pass
Nov1	0.8255	0.8255	100.0	Pass
2	1.0245	1.0245	100.0	Pass
3	0.7471	0.7471	100.0	Pass
4	0.7787	0.7787	100.0	Pass
5	0.8635	0.8635	100.0	Pass
6	0.6990	0.6990	100.0	Pass
7	0.6352	0.6352	100.0	Pass
8	0.8591	0.8591	100.0	Pass
9	1.0113	1.0113	100.0	Pass
10	0.8436	0.8436	100.0	Pass
11	0.9551	0.9551	100.0	Pass
12	0.8813	0.8813	100.0	Pass
13	0.6216	0.6216	100.0	Pass
14	0.7694	0.7694	100.0	Pass
15	0.8712	0.8712	100.0	Pass
16	0.9117	0.9117	100.0	Pass
17	0.8174	0.8174	100.0	Pass
18	1.2416	1.2416	100.0	Pass
19	1.0758	1.0758	100.0	Pass
20	0.6702	0.6702	100.0	Pass
21	1.1407	1.1407	100.0	Pass
22	1.3715	1.3715	100.0	Pass
23	0.9819	0.9819	100.0	Pass
24	1.1537	1.1537	100.0	Pass
25	0.7081	0.7081	100.0	Pass
26	0.5758	0.5758	100.0	Pass

27	0.7535	0.7535	100.0	Pass
28	0.7162	0.7162	100.0	Pass
29	1.2397	1.2397	100.0	Pass
30	0.9368	0.9368	100.0	Pass
Dec1	1.0550	1.0550	100.0	Pass
2	1.0030	1.0030	100.0	Pass
3	0.6059	0.6059	100.0	Pass
4	0.7120	0.7120	100.0	Pass
5	0.5950	0.5950	100.0	Pass
6	0.5252	0.5252	100.0	Pass
7	0.7995	0.7995	100.0	Pass
8	1.0071	1.0071	100.0	Pass
9	0.9723	0.9723	100.0	Pass
10	1.0428	1.0428	100.0	Pass
11	0.7347	0.7347	100.0	Pass
12	0.8179	0.8179	100.0	Pass
13	1.2725	1.2725	100.0	Pass
14	0.8122	0.8122	100.0	Pass
15	1.1309	1.1309	100.0	Pass
16	0.7044	0.7044	100.0	Pass
17	0.8914	0.8914	100.0	Pass
18	0.7150	0.7150	100.0	Pass
19	0.8766	0.8766	100.0	Pass
20	0.8390	0.8390	100.0	Pass
21	0.9234	0.9234	100.0	Pass
22	0.9136	0.9136	100.0	Pass
23	0.9998	0.9998	100.0	Pass
24	1.1224	1.1224	100.0	Pass
25	0.9320	0.9320	100.0	Pass
26	0.8441	0.8441	100.0	Pass
27	0.5454	0.5454	100.0	Pass
28	0.9445	0.9445	100.0	Pass
29	0.5732	0.5732	100.0	Pass
30	0.6270	0.6270	100.0	Pass
31	1.1131	1.1131	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #7
Total Pervious Area:0.821
Total Impervious Area:1.941

Mitigated Landuse Totals for POC #7
Total Pervious Area:0.821
Total Impervious Area:1.941

Flow Frequency Return Periods for Predeveloped. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.545939
5 year	1.868183

10 year	2.044714
25 year	2.237141
50 year	2.362948
100 year	2.476639

Flow Frequency Return Periods for Mitigated. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.545939
5 year	1.868183
10 year	2.044714
25 year	2.237141
50 year	2.362948
100 year	2.476639

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #7

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	1.699	1.699
1957	2.027	2.027
1958	1.520	1.520
1959	1.615	1.615
1960	1.689	1.689
1961	1.248	1.248
1962	2.223	2.223
1963	2.010	2.010
1964	1.692	1.692
1965	1.712	1.712
1966	1.713	1.713
1967	1.034	1.034
1968	1.616	1.616
1969	1.567	1.567
1970	1.386	1.386
1971	2.262	2.262
1972	1.935	1.935
1973	1.715	1.715
1974	1.719	1.719
1975	1.488	1.488
1976	1.835	1.835
1977	1.295	1.295
1978	2.265	2.265
1979	1.439	1.439
1980	1.304	1.304
1981	1.657	1.657
1982	1.910	1.910
1983	1.511	1.511
1984	1.442	1.442
1985	1.008	1.008
1986	1.721	1.721
1987	1.191	1.191
1988	1.836	1.836
1989	1.502	1.502
1990	2.033	2.033
1991	1.228	1.228
1992	0.968	0.968
1993	1.070	1.070
1994	1.451	1.451

1995	1.295	1.295
1996	1.601	1.601
1997	1.661	1.661
1998	1.018	1.018
1999	1.313	1.313
2000	1.202	1.202
2001	1.117	1.117
2002	1.640	1.640
2003	2.187	2.187
2004	2.000	2.000
2005	1.554	1.554
2006	1.598	1.598
2007	1.902	1.902
2008	0.930	0.930
2009	0.869	0.869

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	2.2646	2.2646
2	2.2619	2.2619
3	2.2231	2.2231
4	2.1866	2.1866
5	2.0333	2.0333
6	2.0274	2.0274
7	2.0105	2.0105
8	2.0001	2.0001
9	1.9351	1.9351
10	1.9103	1.9103
11	1.9021	1.9021
12	1.8363	1.8363
13	1.8355	1.8355
14	1.7208	1.7208
15	1.7189	1.7189
16	1.7154	1.7154
17	1.7126	1.7126
18	1.7119	1.7119
19	1.6985	1.6985
20	1.6917	1.6917
21	1.6892	1.6892
22	1.6614	1.6614
23	1.6574	1.6574
24	1.6401	1.6401
25	1.6156	1.6156
26	1.6150	1.6150
27	1.6014	1.6014
28	1.5975	1.5975
29	1.5675	1.5675
30	1.5537	1.5537
31	1.5200	1.5200
32	1.5115	1.5115
33	1.5021	1.5021
34	1.4884	1.4884
35	1.4509	1.4509
36	1.4423	1.4423
37	1.4386	1.4386

38	1.3855	1.3855
39	1.3130	1.3130
40	1.3040	1.3040
41	1.2952	1.2952
42	1.2947	1.2947
43	1.2478	1.2478
44	1.2280	1.2280
45	1.2020	1.2020
46	1.1912	1.1912
47	1.1166	1.1166
48	1.0701	1.0701
49	1.0340	1.0340
50	1.0185	1.0185
51	1.0084	1.0084
52	0.9681	0.9681
53	0.9300	0.9300
54	0.8695	0.8695

Stream Protection Duration

POC #7

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.7730	958	958	100	Pass
0.7890	881	881	100	Pass
0.8051	813	813	100	Pass
0.8212	767	767	100	Pass
0.8372	717	717	100	Pass
0.8533	658	658	100	Pass
0.8693	603	603	100	Pass
0.8854	571	571	100	Pass
0.9015	536	536	100	Pass
0.9175	492	492	100	Pass
0.9336	458	458	100	Pass
0.9496	424	424	100	Pass
0.9657	400	400	100	Pass
0.9818	381	381	100	Pass
0.9978	351	351	100	Pass
1.0139	329	329	100	Pass
1.0299	306	306	100	Pass
1.0460	285	285	100	Pass
1.0621	267	267	100	Pass
1.0781	250	250	100	Pass
1.0942	229	229	100	Pass
1.1102	217	217	100	Pass
1.1263	211	211	100	Pass
1.1424	200	200	100	Pass
1.1584	188	188	100	Pass
1.1745	176	176	100	Pass
1.1905	168	168	100	Pass
1.2066	158	158	100	Pass
1.2227	150	150	100	Pass
1.2387	141	141	100	Pass
1.2548	136	136	100	Pass

1.2708	132	132	100	Pass
1.2869	126	126	100	Pass
1.3030	114	114	100	Pass
1.3190	107	107	100	Pass
1.3351	100	100	100	Pass
1.3511	95	95	100	Pass
1.3672	93	93	100	Pass
1.3833	90	90	100	Pass
1.3993	87	87	100	Pass
1.4154	81	81	100	Pass
1.4314	80	80	100	Pass
1.4475	74	74	100	Pass
1.4636	72	72	100	Pass
1.4796	69	69	100	Pass
1.4957	65	65	100	Pass
1.5117	61	61	100	Pass
1.5278	53	53	100	Pass
1.5439	51	51	100	Pass
1.5599	50	50	100	Pass
1.5760	48	48	100	Pass
1.5920	47	47	100	Pass
1.6081	44	44	100	Pass
1.6242	42	42	100	Pass
1.6402	41	41	100	Pass
1.6563	38	38	100	Pass
1.6724	35	35	100	Pass
1.6884	35	35	100	Pass
1.7045	31	31	100	Pass
1.7205	27	27	100	Pass
1.7366	24	24	100	Pass
1.7527	24	24	100	Pass
1.7687	24	24	100	Pass
1.7848	23	23	100	Pass
1.8008	21	21	100	Pass
1.8169	20	20	100	Pass
1.8330	19	19	100	Pass
1.8490	16	16	100	Pass
1.8651	15	15	100	Pass
1.8811	15	15	100	Pass
1.8972	14	14	100	Pass
1.9133	12	12	100	Pass
1.9293	11	11	100	Pass
1.9454	10	10	100	Pass
1.9614	10	10	100	Pass
1.9775	10	10	100	Pass
1.9936	10	10	100	Pass
2.0096	9	9	100	Pass
2.0257	8	8	100	Pass
2.0417	6	6	100	Pass
2.0578	6	6	100	Pass
2.0739	6	6	100	Pass
2.0899	5	5	100	Pass
2.1060	5	5	100	Pass
2.1220	5	5	100	Pass
2.1381	4	4	100	Pass
2.1542	4	4	100	Pass
2.1702	4	4	100	Pass

2.1863	4	4	100	Pass
2.2023	3	3	100	Pass
2.2184	3	3	100	Pass
2.2345	2	2	100	Pass
2.2505	2	2	100	Pass
2.2666	0	0	100	Pass
2.2826	0	0	0	Pass
2.2987	0	0	0	Pass
2.3148	0	0	0	Pass
2.3308	0	0	0	Pass
2.3469	0	0	0	Pass
2.3629	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #7

On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 7

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	102.9566	102.9566	100.0	Pass
Feb	78.9838	78.9838	100.0	Pass
Mar	69.8124	69.8124	100.0	Pass
Apr	38.4882	38.4882	100.0	Pass
May	19.9843	19.9843	100.0	Pass
Jun	13.0562	13.0562	100.0	Pass
Jul	6.3519	6.3519	100.0	Pass
Aug	9.4207	9.4207	100.0	Pass
Sep	22.0256	22.0256	100.0	Pass
Oct	55.3977	55.3977	100.0	Pass
Nov	96.8064	96.8064	100.0	Pass
Dec	99.3371	99.3371	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	3.2943	3.2943	100.0	Pass
2	2.6273	2.6273	100.0	Pass
3	3.2881	3.2881	100.0	Pass
4	3.8247	3.8247	100.0	Pass
5	2.8590	2.8590	100.0	Pass
6	4.1718	4.1718	100.0	Pass
7	3.3178	3.3178	100.0	Pass
8	3.3118	3.3118	100.0	Pass
9	3.4999	3.4999	100.0	Pass
10	3.4315	3.4315	100.0	Pass
11	4.1608	4.1608	100.0	Pass
12	3.3302	3.3302	100.0	Pass
13	4.1212	4.1212	100.0	Pass
14	4.1340	4.1340	100.0	Pass
15	3.7940	3.7940	100.0	Pass
16	3.1627	3.1627	100.0	Pass

17	3.0148	3.0148	100.0	Pass
18	2.6636	2.6636	100.0	Pass
19	2.6317	2.6317	100.0	Pass
20	1.7773	1.7773	100.0	Pass
21	3.1948	3.1948	100.0	Pass
22	3.9299	3.9299	100.0	Pass
23	4.4290	4.4290	100.0	Pass
24	3.1138	3.1138	100.0	Pass
25	2.6423	2.6423	100.0	Pass
26	2.3843	2.3843	100.0	Pass
27	2.9295	2.9295	100.0	Pass
28	3.7069	3.7069	100.0	Pass
29	2.9003	2.9003	100.0	Pass
30	3.3709	3.3709	100.0	Pass
31	2.1055	2.1055	100.0	Pass
Feb1	2.3417	2.3417	100.0	Pass
2	2.1263	2.1263	100.0	Pass
3	1.9328	1.9328	100.0	Pass
4	1.7908	1.7908	100.0	Pass
5	3.1922	3.1922	100.0	Pass
6	1.7183	1.7183	100.0	Pass
7	2.3838	2.3838	100.0	Pass
8	1.8471	1.8471	100.0	Pass
9	2.1727	2.1727	100.0	Pass
10	2.8691	2.8691	100.0	Pass
11	3.8019	3.8019	100.0	Pass
12	3.0490	3.0490	100.0	Pass
13	3.2322	3.2322	100.0	Pass
14	4.4540	4.4540	100.0	Pass
15	3.3610	3.3610	100.0	Pass
16	4.2967	4.2967	100.0	Pass
17	3.8333	3.8333	100.0	Pass
18	3.0892	3.0892	100.0	Pass
19	2.6767	2.6767	100.0	Pass
20	2.5638	2.5638	100.0	Pass
21	2.1015	2.1015	100.0	Pass
22	3.0007	3.0007	100.0	Pass
23	2.8752	2.8752	100.0	Pass
24	3.1613	3.1613	100.0	Pass
25	2.8527	2.8527	100.0	Pass
26	2.8197	2.8197	100.0	Pass
27	2.4797	2.4797	100.0	Pass
28	3.3244	3.3244	100.0	Pass
29	2.3725	2.3725	100.0	Pass
Mar1	2.3258	2.3258	100.0	Pass
2	1.9207	1.9207	100.0	Pass
3	2.6475	2.6475	100.0	Pass
4	2.7842	2.7842	100.0	Pass
5	2.2161	2.2161	100.0	Pass
6	2.7817	2.7817	100.0	Pass
7	2.7116	2.7116	100.0	Pass
8	2.6528	2.6528	100.0	Pass
9	2.6605	2.6605	100.0	Pass
10	2.3394	2.3394	100.0	Pass
11	2.5195	2.5195	100.0	Pass
12	2.2355	2.2355	100.0	Pass
13	2.6877	2.6877	100.0	Pass

14	2.1624	2.1624	100.0	Pass
15	1.7660	1.7660	100.0	Pass
16	1.6863	1.6863	100.0	Pass
17	2.2662	2.2662	100.0	Pass
18	1.4218	1.4218	100.0	Pass
19	2.0650	2.0650	100.0	Pass
20	1.6847	1.6847	100.0	Pass
21	2.7763	2.7763	100.0	Pass
22	3.1264	3.1264	100.0	Pass
23	2.6445	2.6445	100.0	Pass
24	1.7458	1.7458	100.0	Pass
25	2.5724	2.5724	100.0	Pass
26	1.9206	1.9206	100.0	Pass
27	1.8143	1.8143	100.0	Pass
28	2.0334	2.0334	100.0	Pass
29	1.8609	1.8609	100.0	Pass
30	1.4149	1.4149	100.0	Pass
31	1.1391	1.1391	100.0	Pass
Apr1	1.2007	1.2007	100.0	Pass
2	1.3385	1.3385	100.0	Pass
3	1.8065	1.8065	100.0	Pass
4	1.6651	1.6651	100.0	Pass
5	1.8068	1.8068	100.0	Pass
6	1.0002	1.0002	100.0	Pass
7	1.5840	1.5840	100.0	Pass
8	1.6144	1.6144	100.0	Pass
9	1.4268	1.4268	100.0	Pass
10	1.4265	1.4265	100.0	Pass
11	1.9099	1.9099	100.0	Pass
12	1.6693	1.6693	100.0	Pass
13	1.7310	1.7310	100.0	Pass
14	1.4918	1.4918	100.0	Pass
15	1.5956	1.5956	100.0	Pass
16	0.9127	0.9127	100.0	Pass
17	1.2089	1.2089	100.0	Pass
18	1.3825	1.3825	100.0	Pass
19	0.7789	0.7789	100.0	Pass
20	0.7364	0.7364	100.0	Pass
21	1.2096	1.2096	100.0	Pass
22	1.0173	1.0173	100.0	Pass
23	0.8990	0.8990	100.0	Pass
24	0.7279	0.7279	100.0	Pass
25	0.8615	0.8615	100.0	Pass
26	1.4426	1.4426	100.0	Pass
27	1.1327	1.1327	100.0	Pass
28	1.1828	1.1828	100.0	Pass
29	0.5932	0.5932	100.0	Pass
30	0.7563	0.7563	100.0	Pass
May1	1.1552	1.1552	100.0	Pass
2	0.8579	0.8579	100.0	Pass
3	0.9065	0.9065	100.0	Pass
4	0.7247	0.7247	100.0	Pass
5	0.6930	0.6930	100.0	Pass
6	0.5842	0.5842	100.0	Pass
7	0.7674	0.7674	100.0	Pass
8	0.4792	0.4792	100.0	Pass
9	0.6568	0.6568	100.0	Pass

10	0.5278	0.5278	100.0	Pass
11	0.4948	0.4948	100.0	Pass
12	0.7047	0.7047	100.0	Pass
13	0.7574	0.7574	100.0	Pass
14	0.7407	0.7407	100.0	Pass
15	0.5070	0.5070	100.0	Pass
16	0.6433	0.6433	100.0	Pass
17	0.5317	0.5317	100.0	Pass
18	0.8465	0.8465	100.0	Pass
19	0.4563	0.4563	100.0	Pass
20	0.4380	0.4380	100.0	Pass
21	0.4475	0.4475	100.0	Pass
22	0.5446	0.5446	100.0	Pass
23	0.4830	0.4830	100.0	Pass
24	0.5076	0.5076	100.0	Pass
25	0.4266	0.4266	100.0	Pass
26	0.7327	0.7327	100.0	Pass
27	0.5802	0.5802	100.0	Pass
28	0.6247	0.6247	100.0	Pass
29	0.8524	0.8524	100.0	Pass
30	0.5578	0.5578	100.0	Pass
31	0.6076	0.6076	100.0	Pass
Jun1	0.4620	0.4620	100.0	Pass
2	0.7388	0.7388	100.0	Pass
3	0.7008	0.7008	100.0	Pass
4	0.5080	0.5080	100.0	Pass
5	0.8408	0.8408	100.0	Pass
6	0.3293	0.3293	100.0	Pass
7	0.4943	0.4943	100.0	Pass
8	0.6907	0.6907	100.0	Pass
9	0.5219	0.5219	100.0	Pass
10	0.4918	0.4918	100.0	Pass
11	0.3591	0.3591	100.0	Pass
12	0.4316	0.4316	100.0	Pass
13	0.6890	0.6890	100.0	Pass
14	0.2910	0.2910	100.0	Pass
15	0.5672	0.5672	100.0	Pass
16	0.2564	0.2564	100.0	Pass
17	0.3545	0.3545	100.0	Pass
18	0.2452	0.2452	100.0	Pass
19	0.2835	0.2835	100.0	Pass
20	0.3068	0.3068	100.0	Pass
21	0.3103	0.3103	100.0	Pass
22	0.1716	0.1716	100.0	Pass
23	0.8553	0.8553	100.0	Pass
24	0.2422	0.2422	100.0	Pass
25	0.3847	0.3847	100.0	Pass
26	0.2302	0.2302	100.0	Pass
27	0.2054	0.2054	100.0	Pass
28	0.2109	0.2109	100.0	Pass
29	0.2769	0.2769	100.0	Pass
30	0.6047	0.6047	100.0	Pass
Jul1	0.1562	0.1562	100.0	Pass
2	0.1310	0.1310	100.0	Pass
3	0.1407	0.1407	100.0	Pass
4	0.3382	0.3382	100.0	Pass
5	0.2541	0.2541	100.0	Pass

6	0.1931	0.1931	100.0	Pass
7	0.3769	0.3769	100.0	Pass
8	0.2176	0.2176	100.0	Pass
9	0.4460	0.4460	100.0	Pass
10	0.2938	0.2938	100.0	Pass
11	0.6039	0.6039	100.0	Pass
12	0.3207	0.3207	100.0	Pass
13	0.2333	0.2333	100.0	Pass
14	0.3487	0.3487	100.0	Pass
15	0.1419	0.1419	100.0	Pass
16	0.0892	0.0892	100.0	Pass
17	0.2968	0.2968	100.0	Pass
18	0.1043	0.1043	100.0	Pass
19	0.1244	0.1244	100.0	Pass
20	0.2143	0.2143	100.0	Pass
21	0.1730	0.1730	100.0	Pass
22	0.0183	0.0183	100.0	Pass
23	0.0496	0.0496	100.0	Pass
24	0.0559	0.0559	100.0	Pass
25	0.1230	0.1230	100.0	Pass
26	0.0508	0.0508	100.0	Pass
27	0.0769	0.0769	100.0	Pass
28	0.0637	0.0637	100.0	Pass
29	0.0412	0.0412	100.0	Pass
30	0.0708	0.0708	100.0	Pass
31	0.0822	0.0822	100.0	Pass
Aug1	0.3383	0.3383	100.0	Pass
2	0.1202	0.1202	100.0	Pass
3	0.0470	0.0470	100.0	Pass
4	0.0462	0.0462	100.0	Pass
5	0.3864	0.3864	100.0	Pass
6	0.2616	0.2616	100.0	Pass
7	0.0961	0.0961	100.0	Pass
8	0.0960	0.0960	100.0	Pass
9	0.0081	0.0081	100.0	Pass
10	0.0498	0.0498	100.0	Pass
11	0.2462	0.2462	100.0	Pass
12	0.2112	0.2112	100.0	Pass
13	0.2667	0.2667	100.0	Pass
14	0.1665	0.1665	100.0	Pass
15	0.1510	0.1510	100.0	Pass
16	0.1274	0.1274	100.0	Pass
17	0.2441	0.2441	100.0	Pass
18	0.4712	0.4712	100.0	Pass
19	0.1363	0.1363	100.0	Pass
20	0.3672	0.3672	100.0	Pass
21	0.3420	0.3420	100.0	Pass
22	0.6634	0.6634	100.0	Pass
23	0.6308	0.6308	100.0	Pass
24	0.5605	0.5605	100.0	Pass
25	0.2343	0.2343	100.0	Pass
26	0.6443	0.6443	100.0	Pass
27	0.6627	0.6627	100.0	Pass
28	0.6704	0.6704	100.0	Pass
29	0.4244	0.4244	100.0	Pass
30	0.6686	0.6686	100.0	Pass
31	1.0683	1.0683	100.0	Pass

Sep1	0.4380	0.4380	100.0	Pass
2	0.4362	0.4362	100.0	Pass
3	0.4644	0.4644	100.0	Pass
4	0.5752	0.5752	100.0	Pass
5	0.4952	0.4952	100.0	Pass
6	0.3424	0.3424	100.0	Pass
7	0.6504	0.6504	100.0	Pass
8	0.4224	0.4224	100.0	Pass
9	1.0548	1.0548	100.0	Pass
10	0.2623	0.2623	100.0	Pass
11	0.2161	0.2161	100.0	Pass
12	0.5575	0.5575	100.0	Pass
13	1.0507	1.0507	100.0	Pass
14	0.6840	0.6840	100.0	Pass
15	1.0232	1.0232	100.0	Pass
16	1.1055	1.1055	100.0	Pass
17	1.1923	1.1923	100.0	Pass
18	1.0763	1.0763	100.0	Pass
19	1.1602	1.1602	100.0	Pass
20	0.8651	0.8651	100.0	Pass
21	1.1846	1.1846	100.0	Pass
22	0.9550	0.9550	100.0	Pass
23	0.7514	0.7514	100.0	Pass
24	0.5396	0.5396	100.0	Pass
25	0.5613	0.5613	100.0	Pass
26	0.5667	0.5667	100.0	Pass
27	0.7765	0.7765	100.0	Pass
28	0.6713	0.6713	100.0	Pass
29	0.8817	0.8817	100.0	Pass
30	0.6510	0.6510	100.0	Pass
Oct1	0.4618	0.4618	100.0	Pass
2	1.1233	1.1233	100.0	Pass
3	1.0124	1.0124	100.0	Pass
4	1.2458	1.2458	100.0	Pass
5	1.3274	1.3274	100.0	Pass
6	1.4642	1.4642	100.0	Pass
7	1.8800	1.8800	100.0	Pass
8	1.5506	1.5506	100.0	Pass
9	1.2131	1.2131	100.0	Pass
10	0.9938	0.9938	100.0	Pass
11	1.8296	1.8296	100.0	Pass
12	1.2567	1.2567	100.0	Pass
13	1.7222	1.7222	100.0	Pass
14	1.0205	1.0205	100.0	Pass
15	1.1823	1.1823	100.0	Pass
16	1.5880	1.5880	100.0	Pass
17	1.4575	1.4575	100.0	Pass
18	2.3193	2.3193	100.0	Pass
19	2.8716	2.8716	100.0	Pass
20	2.4896	2.4896	100.0	Pass
21	3.0021	3.0021	100.0	Pass
22	1.8284	1.8284	100.0	Pass
23	2.9243	2.9243	100.0	Pass
24	2.5868	2.5868	100.0	Pass
25	2.3257	2.3257	100.0	Pass
26	2.7915	2.7915	100.0	Pass
27	2.4030	2.4030	100.0	Pass

28	2.2334	2.2334	100.0	Pass
29	1.9021	1.9021	100.0	Pass
30	2.7465	2.7465	100.0	Pass
31	2.3579	2.3579	100.0	Pass
Nov1	2.9526	2.9526	100.0	Pass
2	3.5313	3.5313	100.0	Pass
3	2.8189	2.8189	100.0	Pass
4	2.8276	2.8276	100.0	Pass
5	3.1222	3.1222	100.0	Pass
6	2.6426	2.6426	100.0	Pass
7	2.3925	2.3925	100.0	Pass
8	3.0319	3.0319	100.0	Pass
9	3.5875	3.5875	100.0	Pass
10	3.1058	3.1058	100.0	Pass
11	3.4558	3.4558	100.0	Pass
12	3.1986	3.1986	100.0	Pass
13	2.4508	2.4508	100.0	Pass
14	2.8106	2.8106	100.0	Pass
15	3.1494	3.1494	100.0	Pass
16	3.2864	3.2864	100.0	Pass
17	3.0267	3.0267	100.0	Pass
18	4.3971	4.3971	100.0	Pass
19	3.9795	3.9795	100.0	Pass
20	2.6934	2.6934	100.0	Pass
21	4.1148	4.1148	100.0	Pass
22	4.8289	4.8289	100.0	Pass
23	3.7668	3.7668	100.0	Pass
24	4.2688	4.2688	100.0	Pass
25	2.8908	2.8908	100.0	Pass
26	2.3479	2.3479	100.0	Pass
27	2.7800	2.7800	100.0	Pass
28	2.6559	2.6559	100.0	Pass
29	4.3393	4.3393	100.0	Pass
30	3.5370	3.5370	100.0	Pass
Dec1	3.8773	3.8773	100.0	Pass
2	3.7810	3.7810	100.0	Pass
3	2.4750	2.4750	100.0	Pass
4	2.6918	2.6918	100.0	Pass
5	2.3331	2.3331	100.0	Pass
6	2.0115	2.0115	100.0	Pass
7	2.8424	2.8424	100.0	Pass
8	3.5674	3.5674	100.0	Pass
9	3.5751	3.5751	100.0	Pass
10	3.8670	3.8670	100.0	Pass
11	2.8568	2.8568	100.0	Pass
12	3.0644	3.0644	100.0	Pass
13	4.4852	4.4852	100.0	Pass
14	3.2059	3.2059	100.0	Pass
15	4.1018	4.1018	100.0	Pass
16	2.8404	2.8404	100.0	Pass
17	3.3218	3.3218	100.0	Pass
18	2.7545	2.7545	100.0	Pass
19	3.1852	3.1852	100.0	Pass
20	3.1480	3.1480	100.0	Pass
21	3.4653	3.4653	100.0	Pass
22	3.4037	3.4037	100.0	Pass
23	3.6884	3.6884	100.0	Pass

24	4.0658	4.0658	100.0	Pass
25	3.5835	3.5835	100.0	Pass
26	3.2743	3.2743	100.0	Pass
27	2.2273	2.2273	100.0	Pass
28	3.4128	3.4128	100.0	Pass
29	2.3179	2.3179	100.0	Pass
30	2.3811	2.3811	100.0	Pass
31	3.9458	3.9458	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #8

Total Pervious Area:0.486
Total Impervious Area:2.631

Mitigated Landuse Totals for POC #8

Total Pervious Area:0.486
Total Impervious Area:2.631

Flow Frequency Return Periods for Predeveloped. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.890142
5 year	2.252363
10 year	2.448784
25 year	2.661471
50 year	2.799785
100 year	2.924309

Flow Frequency Return Periods for Mitigated. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	1.890142
5 year	2.252363
10 year	2.448784
25 year	2.661471
50 year	2.799785
100 year	2.924309

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #8

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	2.009	2.009
1957	2.459	2.459
1958	1.881	1.881
1959	1.928	1.928
1960	2.003	2.003
1961	1.589	1.589
1962	2.630	2.630
1963	2.397	2.397
1964	2.071	2.071

1965	2.063	2.063
1966	2.034	2.034
1967	1.289	1.289
1968	1.945	1.945
1969	1.858	1.858
1970	1.736	1.736
1971	2.691	2.691
1972	2.278	2.278
1973	2.090	2.090
1974	2.037	2.037
1975	1.802	1.802
1976	2.203	2.203
1977	1.590	1.590
1978	2.749	2.749
1979	1.737	1.737
1980	1.598	1.598
1981	2.028	2.028
1982	2.342	2.342
1983	1.847	1.847
1984	1.739	1.739
1985	1.298	1.298
1986	2.079	2.079
1987	1.452	1.452
1988	2.216	2.216
1989	1.838	1.838
1990	2.417	2.417
1991	1.552	1.552
1992	1.222	1.222
1993	1.356	1.356
1994	1.773	1.773
1995	1.695	1.695
1996	2.072	2.072
1997	2.048	2.048
1998	1.281	1.281
1999	1.614	1.614
2000	1.470	1.470
2001	1.420	1.420
2002	2.195	2.195
2003	2.582	2.582
2004	2.394	2.394
2005	1.885	1.885
2006	1.923	1.923
2007	2.267	2.267
2008	1.173	1.173
2009	1.110	1.110

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	2.7493	2.7493
2	2.6911	2.6911
3	2.6302	2.6302
4	2.5817	2.5817
5	2.4594	2.4594
6	2.4173	2.4173
7	2.3967	2.3967

8	2.3940	2.3940
9	2.3425	2.3425
10	2.2782	2.2782
11	2.2674	2.2674
12	2.2155	2.2155
13	2.2033	2.2033
14	2.1955	2.1955
15	2.0905	2.0905
16	2.0792	2.0792
17	2.0716	2.0716
18	2.0712	2.0712
19	2.0630	2.0630
20	2.0477	2.0477
21	2.0367	2.0367
22	2.0340	2.0340
23	2.0279	2.0279
24	2.0093	2.0093
25	2.0032	2.0032
26	1.9449	1.9449
27	1.9277	1.9277
28	1.9226	1.9226
29	1.8854	1.8854
30	1.8807	1.8807
31	1.8577	1.8577
32	1.8469	1.8469
33	1.8375	1.8375
34	1.8016	1.8016
35	1.7727	1.7727
36	1.7386	1.7386
37	1.7369	1.7369
38	1.7363	1.7363
39	1.6946	1.6946
40	1.6136	1.6136
41	1.5984	1.5984
42	1.5899	1.5899
43	1.5893	1.5893
44	1.5522	1.5522
45	1.4697	1.4697
46	1.4519	1.4519
47	1.4198	1.4198
48	1.3563	1.3563
49	1.2981	1.2981
50	1.2886	1.2886
51	1.2809	1.2809
52	1.2216	1.2216
53	1.1734	1.1734
54	1.1103	1.1103

Stream Protection Duration

POC #8

The Facility PASSED

The Facility PASSED.

Flow(cfs) Predev Mit Percentage Pass/Fail

0.9451 1086 1086 100 Pass

0.9638	1010	1010	100	Pass
0.9825	939	939	100	Pass
1.0013	881	881	100	Pass
1.0200	815	815	100	Pass
1.0387	761	761	100	Pass
1.0575	701	701	100	Pass
1.0762	644	644	100	Pass
1.0949	603	603	100	Pass
1.1137	557	557	100	Pass
1.1324	517	517	100	Pass
1.1512	487	487	100	Pass
1.1699	450	450	100	Pass
1.1886	423	423	100	Pass
1.2074	390	390	100	Pass
1.2261	366	366	100	Pass
1.2448	342	342	100	Pass
1.2636	320	320	100	Pass
1.2823	300	300	100	Pass
1.3010	280	280	100	Pass
1.3198	262	262	100	Pass
1.3385	251	251	100	Pass
1.3572	238	238	100	Pass
1.3760	227	227	100	Pass
1.3947	210	210	100	Pass
1.4134	197	197	100	Pass
1.4322	187	187	100	Pass
1.4509	177	177	100	Pass
1.4696	168	168	100	Pass
1.4884	159	159	100	Pass
1.5071	153	153	100	Pass
1.5258	147	147	100	Pass
1.5446	140	140	100	Pass
1.5633	134	134	100	Pass
1.5820	120	120	100	Pass
1.6008	113	113	100	Pass
1.6195	105	105	100	Pass
1.6382	98	98	100	Pass
1.6570	96	96	100	Pass
1.6757	94	94	100	Pass
1.6945	88	88	100	Pass
1.7132	84	84	100	Pass
1.7319	80	80	100	Pass
1.7507	75	75	100	Pass
1.7694	73	73	100	Pass
1.7881	69	69	100	Pass
1.8069	67	67	100	Pass
1.8256	62	62	100	Pass
1.8443	58	58	100	Pass
1.8631	53	53	100	Pass
1.8818	50	50	100	Pass
1.9005	47	47	100	Pass
1.9193	46	46	100	Pass
1.9380	43	43	100	Pass
1.9567	42	42	100	Pass
1.9755	41	41	100	Pass
1.9942	40	40	100	Pass
2.0129	37	37	100	Pass

2.0317	35	35	100	Pass
2.0504	31	31	100	Pass
2.0691	30	30	100	Pass
2.0879	27	27	100	Pass
2.1066	25	25	100	Pass
2.1253	23	23	100	Pass
2.1441	23	23	100	Pass
2.1628	23	23	100	Pass
2.1815	23	23	100	Pass
2.2003	19	19	100	Pass
2.2190	17	17	100	Pass
2.2378	16	16	100	Pass
2.2565	15	15	100	Pass
2.2752	14	14	100	Pass
2.2940	12	12	100	Pass
2.3127	12	12	100	Pass
2.3314	11	11	100	Pass
2.3502	10	10	100	Pass
2.3689	10	10	100	Pass
2.3876	10	10	100	Pass
2.4064	8	8	100	Pass
2.4251	7	7	100	Pass
2.4438	7	7	100	Pass
2.4626	5	5	100	Pass
2.4813	5	5	100	Pass
2.5000	5	5	100	Pass
2.5188	5	5	100	Pass
2.5375	4	4	100	Pass
2.5562	4	4	100	Pass
2.5750	4	4	100	Pass
2.5937	3	3	100	Pass
2.6124	3	3	100	Pass
2.6312	2	2	100	Pass
2.6499	2	2	100	Pass
2.6686	2	2	100	Pass
2.6874	2	2	100	Pass
2.7061	1	1	100	Pass
2.7248	1	1	100	Pass
2.7436	1	1	100	Pass
2.7623	0	0	100	Pass
2.7811	0	0	0	Pass
2.7998	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #8

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 8

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	120.0565	120.0565	100.0	Pass
Feb	91.8219	91.8219	100.0	Pass
Mar	81.3370	81.3370	100.0	Pass
Apr	45.3586	45.3586	100.0	Pass
May	24.3842	24.3842	100.0	Pass
Jun	16.2013	16.2013	100.0	Pass
Jul	8.0322	8.0322	100.0	Pass
Aug	12.0620	12.0620	100.0	Pass
Sep	27.4535	27.4535	100.0	Pass
Oct	67.2164	67.2164	100.0	Pass
Nov	114.1392	114.1392	100.0	Pass
Dec	115.8274	115.8274	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	3.8545	3.8545	100.0	Pass
2	3.0128	3.0128	100.0	Pass
3	3.8703	3.8703	100.0	Pass
4	4.5640	4.5640	100.0	Pass
5	3.2770	3.2770	100.0	Pass
6	4.9923	4.9923	100.0	Pass
7	3.8193	3.8193	100.0	Pass
8	3.8482	3.8482	100.0	Pass
9	4.1252	4.1252	100.0	Pass
10	3.9882	3.9882	100.0	Pass
11	4.9027	4.9027	100.0	Pass
12	3.8181	3.8181	100.0	Pass
13	4.8497	4.8497	100.0	Pass
14	4.8262	4.8262	100.0	Pass
15	4.3913	4.3913	100.0	Pass
16	3.5741	3.5741	100.0	Pass
17	3.4340	3.4340	100.0	Pass
18	3.0297	3.0297	100.0	Pass
19	3.0415	3.0415	100.0	Pass
20	1.9714	1.9714	100.0	Pass
21	3.8952	3.8952	100.0	Pass
22	4.6841	4.6841	100.0	Pass
23	5.2264	5.2264	100.0	Pass
24	3.5219	3.5219	100.0	Pass
25	2.9822	2.9822	100.0	Pass
26	2.6940	2.6940	100.0	Pass
27	3.4459	3.4459	100.0	Pass
28	4.3979	4.3979	100.0	Pass
29	3.3290	3.3290	100.0	Pass
30	3.9658	3.9658	100.0	Pass
31	2.3410	2.3410	100.0	Pass
Feb1	2.6974	2.6974	100.0	Pass
2	2.4697	2.4697	100.0	Pass
3	2.2253	2.2253	100.0	Pass
4	2.0611	2.0611	100.0	Pass
5	3.8547	3.8547	100.0	Pass
6	1.8980	1.8980	100.0	Pass
7	2.8184	2.8184	100.0	Pass
8	2.1221	2.1221	100.0	Pass
9	2.5825	2.5825	100.0	Pass
10	3.4494	3.4494	100.0	Pass
11	4.5343	4.5343	100.0	Pass
12	3.5085	3.5085	100.0	Pass

13	3.7920	3.7920	100.0	Pass
14	5.3445	5.3445	100.0	Pass
15	3.8327	3.8327	100.0	Pass
16	5.0771	5.0771	100.0	Pass
17	4.4411	4.4411	100.0	Pass
18	3.4681	3.4681	100.0	Pass
19	3.0236	3.0236	100.0	Pass
20	2.9225	2.9225	100.0	Pass
21	2.3934	2.3934	100.0	Pass
22	3.5450	3.5450	100.0	Pass
23	3.3592	3.3592	100.0	Pass
24	3.7035	3.7035	100.0	Pass
25	3.2943	3.2943	100.0	Pass
26	3.2413	3.2413	100.0	Pass
27	2.8319	2.8319	100.0	Pass
28	3.8545	3.8545	100.0	Pass
29	2.7351	2.7351	100.0	Pass
Mar1	2.6996	2.6996	100.0	Pass
2	2.1936	2.1936	100.0	Pass
3	3.1415	3.1415	100.0	Pass
4	3.2800	3.2800	100.0	Pass
5	2.5625	2.5625	100.0	Pass
6	3.2520	3.2520	100.0	Pass
7	3.1999	3.1999	100.0	Pass
8	3.0942	3.0942	100.0	Pass
9	3.1026	3.1026	100.0	Pass
10	2.6907	2.6907	100.0	Pass
11	2.9333	2.9333	100.0	Pass
12	2.5908	2.5908	100.0	Pass
13	3.1592	3.1592	100.0	Pass
14	2.4833	2.4833	100.0	Pass
15	2.0123	2.0123	100.0	Pass
16	1.9516	1.9516	100.0	Pass
17	2.6672	2.6672	100.0	Pass
18	1.6034	1.6034	100.0	Pass
19	2.4575	2.4575	100.0	Pass
20	1.9627	1.9627	100.0	Pass
21	3.3539	3.3539	100.0	Pass
22	3.7488	3.7488	100.0	Pass
23	3.0592	3.0592	100.0	Pass
24	1.9254	1.9254	100.0	Pass
25	3.0485	3.0485	100.0	Pass
26	2.1856	2.1856	100.0	Pass
27	2.1109	2.1109	100.0	Pass
28	2.3670	2.3670	100.0	Pass
29	2.1685	2.1685	100.0	Pass
30	1.6043	1.6043	100.0	Pass
31	1.2918	1.2918	100.0	Pass
Apr1	1.3983	1.3983	100.0	Pass
2	1.5835	1.5835	100.0	Pass
3	2.1976	2.1976	100.0	Pass
4	1.9707	1.9707	100.0	Pass
5	2.1119	2.1119	100.0	Pass
6	1.1075	1.1075	100.0	Pass
7	1.9033	1.9033	100.0	Pass
8	1.9049	1.9049	100.0	Pass
9	1.6893	1.6893	100.0	Pass

10	1.6636	1.6636	100.0	Pass
11	2.3240	2.3240	100.0	Pass
12	1.9633	1.9633	100.0	Pass
13	2.0588	2.0588	100.0	Pass
14	1.7367	1.7367	100.0	Pass
15	1.8662	1.8662	100.0	Pass
16	1.0052	1.0052	100.0	Pass
17	1.4341	1.4341	100.0	Pass
18	1.6570	1.6570	100.0	Pass
19	0.8635	0.8635	100.0	Pass
20	0.8539	0.8539	100.0	Pass
21	1.4789	1.4789	100.0	Pass
22	1.2196	1.2196	100.0	Pass
23	1.0570	1.0570	100.0	Pass
24	0.8484	0.8484	100.0	Pass
25	1.0412	1.0412	100.0	Pass
26	1.7507	1.7507	100.0	Pass
27	1.3358	1.3358	100.0	Pass
28	1.3974	1.3974	100.0	Pass
29	0.6515	0.6515	100.0	Pass
30	0.9071	0.9071	100.0	Pass
May1	1.4315	1.4315	100.0	Pass
2	1.0136	1.0136	100.0	Pass
3	1.0971	1.0971	100.0	Pass
4	0.8528	0.8528	100.0	Pass
5	0.8268	0.8268	100.0	Pass
6	0.6986	0.6986	100.0	Pass
7	0.9397	0.9397	100.0	Pass
8	0.5601	0.5601	100.0	Pass
9	0.8076	0.8076	100.0	Pass
10	0.6422	0.6422	100.0	Pass
11	0.6057	0.6057	100.0	Pass
12	0.8714	0.8714	100.0	Pass
13	0.9369	0.9369	100.0	Pass
14	0.9162	0.9162	100.0	Pass
15	0.5926	0.5926	100.0	Pass
16	0.7951	0.7951	100.0	Pass
17	0.6417	0.6417	100.0	Pass
18	1.0694	1.0694	100.0	Pass
19	0.5417	0.5417	100.0	Pass
20	0.5382	0.5382	100.0	Pass
21	0.5498	0.5498	100.0	Pass
22	0.6857	0.6857	100.0	Pass
23	0.5942	0.5942	100.0	Pass
24	0.6238	0.6238	100.0	Pass
25	0.5172	0.5172	100.0	Pass
26	0.9200	0.9200	100.0	Pass
27	0.7097	0.7097	100.0	Pass
28	0.7738	0.7738	100.0	Pass
29	1.0575	1.0575	100.0	Pass
30	0.6699	0.6699	100.0	Pass
31	0.7338	0.7338	100.0	Pass
Jun1	0.5412	0.5412	100.0	Pass
2	0.9336	0.9336	100.0	Pass
3	0.8796	0.8796	100.0	Pass
4	0.6197	0.6197	100.0	Pass
5	1.0608	1.0608	100.0	Pass

6	0.3757	0.3757	100.0	Pass
7	0.6018	0.6018	100.0	Pass
8	0.8598	0.8598	100.0	Pass
9	0.6391	0.6391	100.0	Pass
10	0.6127	0.6127	100.0	Pass
11	0.4387	0.4387	100.0	Pass
12	0.5458	0.5458	100.0	Pass
13	0.8749	0.8749	100.0	Pass
14	0.3418	0.3418	100.0	Pass
15	0.7123	0.7123	100.0	Pass
16	0.2974	0.2974	100.0	Pass
17	0.4379	0.4379	100.0	Pass
18	0.2872	0.2872	100.0	Pass
19	0.3563	0.3563	100.0	Pass
20	0.3928	0.3928	100.0	Pass
21	0.3897	0.3897	100.0	Pass
22	0.2065	0.2065	100.0	Pass
23	1.1207	1.1207	100.0	Pass
24	0.2741	0.2741	100.0	Pass
25	0.4846	0.4846	100.0	Pass
26	0.2869	0.2869	100.0	Pass
27	0.2628	0.2628	100.0	Pass
28	0.2725	0.2725	100.0	Pass
29	0.3624	0.3624	100.0	Pass
30	0.7842	0.7842	100.0	Pass
Jul1	0.1830	0.1830	100.0	Pass
2	0.1618	0.1618	100.0	Pass
3	0.1811	0.1811	100.0	Pass
4	0.4521	0.4521	100.0	Pass
5	0.3350	0.3350	100.0	Pass
6	0.2533	0.2533	100.0	Pass
7	0.4892	0.4892	100.0	Pass
8	0.2668	0.2668	100.0	Pass
9	0.5789	0.5789	100.0	Pass
10	0.3698	0.3698	100.0	Pass
11	0.7583	0.7583	100.0	Pass
12	0.3604	0.3604	100.0	Pass
13	0.2708	0.2708	100.0	Pass
14	0.4392	0.4392	100.0	Pass
15	0.1695	0.1695	100.0	Pass
16	0.1076	0.1076	100.0	Pass
17	0.3825	0.3825	100.0	Pass
18	0.1198	0.1198	100.0	Pass
19	0.1546	0.1546	100.0	Pass
20	0.2795	0.2795	100.0	Pass
21	0.2174	0.2174	100.0	Pass
22	0.0143	0.0143	100.0	Pass
23	0.0618	0.0618	100.0	Pass
24	0.0729	0.0729	100.0	Pass
25	0.1650	0.1650	100.0	Pass
26	0.0677	0.0677	100.0	Pass
27	0.1033	0.1033	100.0	Pass
28	0.0848	0.0848	100.0	Pass
29	0.0537	0.0537	100.0	Pass
30	0.0947	0.0947	100.0	Pass
31	0.1101	0.1101	100.0	Pass
Aug1	0.4526	0.4526	100.0	Pass

2	0.1511	0.1511	100.0	Pass
3	0.0545	0.0545	100.0	Pass
4	0.0569	0.0569	100.0	Pass
5	0.5110	0.5110	100.0	Pass
6	0.3364	0.3364	100.0	Pass
7	0.1168	0.1168	100.0	Pass
8	0.1228	0.1228	100.0	Pass
9	0.0073	0.0073	100.0	Pass
10	0.0650	0.0650	100.0	Pass
11	0.3297	0.3297	100.0	Pass
12	0.2803	0.2803	100.0	Pass
13	0.3524	0.3524	100.0	Pass
14	0.2115	0.2115	100.0	Pass
15	0.1873	0.1873	100.0	Pass
16	0.1622	0.1622	100.0	Pass
17	0.3248	0.3248	100.0	Pass
18	0.6288	0.6288	100.0	Pass
19	0.1656	0.1656	100.0	Pass
20	0.4853	0.4853	100.0	Pass
21	0.4418	0.4418	100.0	Pass
22	0.8653	0.8653	100.0	Pass
23	0.8026	0.8026	100.0	Pass
24	0.6796	0.6796	100.0	Pass
25	0.2637	0.2637	100.0	Pass
26	0.8320	0.8320	100.0	Pass
27	0.8418	0.8418	100.0	Pass
28	0.8373	0.8373	100.0	Pass
29	0.5226	0.5226	100.0	Pass
30	0.8635	0.8635	100.0	Pass
31	1.3657	1.3657	100.0	Pass
Sep1	0.5022	0.5022	100.0	Pass
2	0.5257	0.5257	100.0	Pass
3	0.5756	0.5756	100.0	Pass
4	0.7314	0.7314	100.0	Pass
5	0.6231	0.6231	100.0	Pass
6	0.4228	0.4228	100.0	Pass
7	0.8464	0.8464	100.0	Pass
8	0.5278	0.5278	100.0	Pass
9	1.3771	1.3771	100.0	Pass
10	0.3087	0.3087	100.0	Pass
11	0.2658	0.2658	100.0	Pass
12	0.7264	0.7264	100.0	Pass
13	1.3615	1.3615	100.0	Pass
14	0.8516	0.8516	100.0	Pass
15	1.3030	1.3030	100.0	Pass
16	1.3668	1.3668	100.0	Pass
17	1.4984	1.4984	100.0	Pass
18	1.3461	1.3461	100.0	Pass
19	1.4321	1.4321	100.0	Pass
20	1.0294	1.0294	100.0	Pass
21	1.4378	1.4378	100.0	Pass
22	1.1481	1.1481	100.0	Pass
23	0.9062	0.9062	100.0	Pass
24	0.6498	0.6498	100.0	Pass
25	0.7000	0.7000	100.0	Pass
26	0.7073	0.7073	100.0	Pass
27	0.9628	0.9628	100.0	Pass

28	0.8391	0.8391	100.0	Pass
29	1.1187	1.1187	100.0	Pass
30	0.7963	0.7963	100.0	Pass
Oct1	0.5530	0.5530	100.0	Pass
2	1.4497	1.4497	100.0	Pass
3	1.2849	1.2849	100.0	Pass
4	1.5644	1.5644	100.0	Pass
5	1.6586	1.6586	100.0	Pass
6	1.8366	1.8366	100.0	Pass
7	2.3460	2.3460	100.0	Pass
8	1.8899	1.8899	100.0	Pass
9	1.4581	1.4581	100.0	Pass
10	1.1888	1.1888	100.0	Pass
11	2.3077	2.3077	100.0	Pass
12	1.5253	1.5253	100.0	Pass
13	2.1572	2.1572	100.0	Pass
14	1.1966	1.1966	100.0	Pass
15	1.4350	1.4350	100.0	Pass
16	1.9430	1.9430	100.0	Pass
17	1.7686	1.7686	100.0	Pass
18	2.8523	2.8523	100.0	Pass
19	3.5014	3.5014	100.0	Pass
20	3.0121	3.0121	100.0	Pass
21	3.6438	3.6438	100.0	Pass
22	2.0952	2.0952	100.0	Pass
23	3.5444	3.5444	100.0	Pass
24	3.0896	3.0896	100.0	Pass
25	2.7540	2.7540	100.0	Pass
26	3.3601	3.3601	100.0	Pass
27	2.8277	2.8277	100.0	Pass
28	2.6343	2.6343	100.0	Pass
29	2.2146	2.2146	100.0	Pass
30	3.3361	3.3361	100.0	Pass
31	2.7800	2.7800	100.0	Pass
Nov1	3.5260	3.5260	100.0	Pass
2	4.2973	4.2973	100.0	Pass
3	3.2780	3.2780	100.0	Pass
4	3.3513	3.3513	100.0	Pass
5	3.7082	3.7082	100.0	Pass
6	3.0700	3.0700	100.0	Pass
7	2.7846	2.7846	100.0	Pass
8	3.6453	3.6453	100.0	Pass
9	4.3021	4.3021	100.0	Pass
10	3.6557	3.6557	100.0	Pass
11	4.1031	4.1031	100.0	Pass
12	3.7919	3.7919	100.0	Pass
13	2.7898	2.7898	100.0	Pass
14	3.3210	3.3210	100.0	Pass
15	3.7410	3.7410	100.0	Pass
16	3.9092	3.9092	100.0	Pass
17	3.5525	3.5525	100.0	Pass
18	5.2773	5.2773	100.0	Pass
19	4.6730	4.6730	100.0	Pass
20	3.0380	3.0380	100.0	Pass
21	4.8930	4.8930	100.0	Pass
22	5.8127	5.8127	100.0	Pass
23	4.3449	4.3449	100.0	Pass

24	5.0121	5.0121	100.0	Pass
25	3.2366	3.2366	100.0	Pass
26	2.6302	2.6302	100.0	Pass
27	3.2687	3.2687	100.0	Pass
28	3.1149	3.1149	100.0	Pass
29	5.2391	5.2391	100.0	Pass
30	4.1117	4.1117	100.0	Pass
Dec1	4.5678	4.5678	100.0	Pass
2	4.3987	4.3987	100.0	Pass
3	2.7702	2.7702	100.0	Pass
4	3.1271	3.1271	100.0	Pass
5	2.6628	2.6628	100.0	Pass
6	2.3221	2.3221	100.0	Pass
7	3.4048	3.4048	100.0	Pass
8	4.2811	4.2811	100.0	Pass
9	4.2108	4.2108	100.0	Pass
10	4.5354	4.5354	100.0	Pass
11	3.2736	3.2736	100.0	Pass
12	3.5758	3.5758	100.0	Pass
13	5.3962	5.3962	100.0	Pass
14	3.6474	3.6474	100.0	Pass
15	4.8641	4.8641	100.0	Pass
16	3.1988	3.1988	100.0	Pass
17	3.8866	3.8866	100.0	Pass
18	3.1708	3.1708	100.0	Pass
19	3.7738	3.7738	100.0	Pass
20	3.6707	3.6707	100.0	Pass
21	4.0405	4.0405	100.0	Pass
22	3.9829	3.9829	100.0	Pass
23	4.3370	4.3370	100.0	Pass
24	4.8246	4.8246	100.0	Pass
25	4.1289	4.1289	100.0	Pass
26	3.7564	3.7564	100.0	Pass
27	2.4933	2.4933	100.0	Pass
28	4.0548	4.0548	100.0	Pass
29	2.6067	2.6067	100.0	Pass
30	2.7602	2.7602	100.0	Pass
31	4.7334	4.7334	100.0	Pass

Perlnd and Implnd Changes

No changes have been made.

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Adams Street Basin WWHM Modeling Report (5)

WWHM2012 PROJECT REPORT

Project Name: Adams Basin 5
Site Name:
Site Address:
City :
Report Date: 8/29/2019
Gage : Montesano
Data Start : 1955/10/01
Data End : 2009/09/30
Precip Scale: 1.00
Version : 2013/09/11

Low Flow Threshold for POC 1 : 50 Percent of the 2 Year

High Flow Threshold for POC 1: 50 year

Low Flow Threshold for POC 2 : 50 Percent of the 2 Year

High Flow Threshold for POC 2: 50 year

Low Flow Threshold for POC 3 : 50 Percent of the 2 Year

High Flow Threshold for POC 3: 50 year

Low Flow Threshold for POC 4 : 50 Percent of the 2 Year

High Flow Threshold for POC 4: 50 year

Low Flow Threshold for POC 5 : 50 Percent of the 2 Year

High Flow Threshold for POC 5: 50 year

Low Flow Threshold for POC 6 : 50 Percent of the 2 Year

High Flow Threshold for POC 6: 50 year

Low Flow Threshold for POC 7 : 50 Percent of the 2 Year

High Flow Threshold for POC 7: 50 year

Low Flow Threshold for POC 8 : 50 Percent of the 2 Year

High Flow Threshold for POC 8: 50 year

Low Flow Threshold for POC 9 : 50 Percent of the 2 Year

High Flow Threshold for POC 9: 50 year

Low Flow Threshold for POC 10 : 50 Percent of the 2 Year

High Flow Threshold for POC 10: 50 year

Low Flow Threshold for POC 11 : 50 Percent of the 2 Year

High Flow Threshold for POC 11: 50 year

Low Flow Threshold for POC 12 : 50 Percent of the 2 Year

High Flow Threshold for POC 12: 50 year

Low Flow Threshold for POC 13 : 50 Percent of the 2 Year

High Flow Threshold for POC 13: 50 year

Low Flow Threshold for POC 14 : 50 Percent of the 2 Year

High Flow Threshold for POC 14: 50 year

Low Flow Threshold for POC 15 : 50 Percent of the 2 Year

High Flow Threshold for POC 15: 50 year

Low Flow Threshold for POC 16 : 50 Percent of the 2 Year

High Flow Threshold for POC 16: 50 year

Low Flow Threshold for POC 17 : 50 Percent of the 2 Year

High Flow Threshold for POC 17: 50 year

Low Flow Threshold for POC 18 : 50 Percent of the 2 Year

High Flow Threshold for POC 18: 50 year

PREDEVELOPED LAND USE

Name : NODE-26

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.069
Pervious Total	0.069
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.113
Impervious Total	0.113
Basin Total	0.182

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-27

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.159
Pervious Total	0.159
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.529
Impervious Total	0.529
Basin Total	0.688

Element Flows To:
Surface Interflow Groundwater

Name : NODE-28

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.403
Pervious Total	0.403
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.833
Impervious Total	0.833
Basin Total	1.236

Element Flows To:
Surface Interflow Groundwater

Name : NODE-29

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.271
Pervious Total	0.271
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.447
Impervious Total	0.447
Basin Total	0.718

Element Flows To:
Surface Interflow Groundwater

Name : NODE-30

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.157
Pervious Total	0.157
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.25
Impervious Total	0.25
Basin Total	0.407

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-30A

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.068
Pervious Total	0.068
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.185
Impervious Total	0.185
Basin Total	0.253

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-31

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.104
Pervious Total	0.104
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.423
Impervious Total	0.423
Basin Total	0.527

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-32

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.058
Pervious Total	0.058
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.269
Impervious Total	0.269
Basin Total	0.327

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-33

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.094

Pervious Total	0.094
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.154
Impervious Total	0.154
Basin Total	0.248

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-34
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.08
Pervious Total	0.08
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.213
Impervious Total	0.213
Basin Total	0.293

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-35
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.09
Pervious Total	0.09
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.22

Impervious Total 0.22
Basin Total 0.31

Element Flows To:
Surface Interflow Groundwater

Name : NODE-36
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.062
Pervious Total	0.062
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.249
Impervious Total	0.249
Basin Total	0.311

Element Flows To:
Surface Interflow Groundwater

Name : NODE-37
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.192
Pervious Total	0.192
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.352
Impervious Total	0.352
Basin Total	0.544

Element Flows To:
Surface Interflow Groundwater

Name : NODE-38
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.148
Pervious Total	0.148
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.118
Impervious Total	0.118
Basin Total	0.266

Element Flows To:
Surface Interflow Groundwater

Name : NODE-39
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.186
Pervious Total	0.186
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.203
Impervious Total	0.203
Basin Total	0.389

Element Flows To:
Surface Interflow Groundwater

Name : NODE-40

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.109
Pervious Total	0.109
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.243
Impervious Total	0.243
Basin Total	0.352

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-63

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.438
Pervious Total	0.438
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.868
Impervious Total	0.868
Basin Total	1.306

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-91

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.639
Pervious Total	0.639
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.521
Impervious Total	0.521
Basin Total	1.16

Element Flows To:		
Surface	Interflow	Groundwater

MITIGATED LAND USE

Name : NODE-26

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.069
Pervious Total	0.069
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.113
Impervious Total	0.113
Basin Total	0.182

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-27

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.159
Pervious Total	0.159
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.529
Impervious Total	0.529
Basin Total	0.688

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-28
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.403
Pervious Total	0.403
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.833
Impervious Total	0.833
Basin Total	1.236

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-29
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.271
Pervious Total	0.271

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.447
Impervious Total	0.447
Basin Total	0.718

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-30
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.157
Pervious Total	0.157

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.25
Impervious Total	0.25
Basin Total	0.407

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-30A
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.068
Pervious Total	0.068

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.185
Impervious Total	0.185

Basin Total 0.253

Element Flows To:
Surface Interflow Groundwater

Name : NODE-31

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.104
Pervious Total	0.104
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.423
Impervious Total	0.423
Basin Total	0.527

Element Flows To:
Surface Interflow Groundwater

Name : NODE-32

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.058
Pervious Total	0.058
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.269
Impervious Total	0.269
Basin Total	0.327

Element Flows To:
Surface Interflow Groundwater

Name : NODE-33

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.094
Pervious Total	0.094
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.154
Impervious Total	0.154
Basin Total	0.248

Element Flows To:
Surface Interflow Groundwater

Name : NODE-34

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.08
Pervious Total	0.08
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.213
Impervious Total	0.213
Basin Total	0.293

Element Flows To:
Surface Interflow Groundwater

Name : NODE-35
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.09
Pervious Total	0.09
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.22
Impervious Total	0.22
Basin Total	0.31

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-36
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.062
Pervious Total	0.062
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.249
Impervious Total	0.249
Basin Total	0.311

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-37
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.192
Pervious Total	0.192
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.352
Impervious Total	0.352
Basin Total	0.544

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-38
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.148
Pervious Total	0.148
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.118
Impervious Total	0.118
Basin Total	0.266

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-39
Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.186
Pervious Total	0.186

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.203
Impervious Total	0.203
Basin Total	0.389

Element Flows To:		
Surface	Interflow	Groundwater

Name : NODE-40
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.109
Pervious Total	0.109

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.243
Impervious Total	0.243
Basin Total	0.352

Element Flows To:		
Surface	Interflow	Groundwater

Name : SD-63
 Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.438
Pervious Total	0.438

<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.868
Impervious Total	0.868

Basin Total 1.306

Element Flows To:
Surface Interflow Groundwater

Name : SD-91

Bypass: No

GroundWater: No

<u>Pervious Land Use</u>	<u>Acres</u>
C, Lawn, Flat	.639
Pervious Total	0.639
<u>Impervious Land Use</u>	<u>Acres</u>
ROADS FLAT	0.521
Impervious Total	0.521
Basin Total	1.16

Element Flows To:
Surface Interflow Groundwater

ANALYSIS RESULTS

Stream Protection Duration

Predeveloped Landuse Totals for POC #1

Total Pervious Area:0.069

Total Impervious Area:0.113

Mitigated Landuse Totals for POC #1

Total Pervious Area:0.069

Total Impervious Area:0.113

Flow Frequency Return Periods for Predeveloped. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.096962
5 year	0.118333
10 year	0.130125
25 year	0.143038
50 year	0.151513
100 year	0.159191

Flow Frequency Return Periods for Mitigated. POC #1

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.096962
5 year	0.118333
10 year	0.130125
25 year	0.143038
50 year	0.151513
100 year	0.159191

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #1

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.109	0.109
1957	0.128	0.128
1958	0.095	0.095
1959	0.103	0.103
1960	0.108	0.108
1961	0.076	0.076
1962	0.142	0.142
1963	0.128	0.128
1964	0.106	0.106
1965	0.108	0.108
1966	0.109	0.109
1967	0.064	0.064
1968	0.102	0.102
1969	0.100	0.100
1970	0.085	0.085
1971	0.144	0.144
1972	0.124	0.124
1973	0.108	0.108
1974	0.110	0.110
1975	0.094	0.094
1976	0.116	0.116
1977	0.081	0.081
1978	0.143	0.143
1979	0.091	0.091
1980	0.082	0.082
1981	0.104	0.104
1982	0.120	0.120
1983	0.095	0.095
1984	0.091	0.091
1985	0.061	0.061
1986	0.109	0.109
1987	0.075	0.075
1988	0.116	0.116
1989	0.094	0.094
1990	0.130	0.130
1991	0.078	0.078

1992	0.059	0.059
1993	0.065	0.065
1994	0.091	0.091
1995	0.077	0.077
1996	0.097	0.097
1997	0.104	0.104
1998	0.063	0.063
1999	0.082	0.082
2000	0.075	0.075
2001	0.068	0.068
2002	0.096	0.096
2003	0.140	0.140
2004	0.127	0.127
2005	0.098	0.098
2006	0.101	0.101
2007	0.121	0.121
2008	0.057	0.057
2009	0.053	0.053

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	0.1444	0.1444
2	0.1427	0.1427
3	0.1424	0.1424
4	0.1402	0.1402
5	0.1298	0.1298
6	0.1282	0.1282
7	0.1278	0.1278
8	0.1272	0.1272
9	0.1243	0.1243
10	0.1213	0.1213
11	0.1196	0.1196
12	0.1165	0.1165
13	0.1162	0.1162
14	0.1100	0.1100
15	0.1094	0.1094
16	0.1088	0.1088
17	0.1087	0.1087
18	0.1084	0.1084
19	0.1080	0.1080
20	0.1078	0.1078
21	0.1060	0.1060
22	0.1039	0.1039
23	0.1036	0.1036
24	0.1029	0.1029
25	0.1023	0.1023
26	0.1012	0.1012
27	0.1003	0.1003
28	0.0979	0.0979
29	0.0966	0.0966
30	0.0964	0.0964
31	0.0948	0.0948
32	0.0946	0.0946
33	0.0942	0.0942
34	0.0939	0.0939

35	0.0913	0.0913
36	0.0910	0.0910
37	0.0910	0.0910
38	0.0855	0.0855
39	0.0821	0.0821
40	0.0817	0.0817
41	0.0810	0.0810
42	0.0776	0.0776
43	0.0774	0.0774
44	0.0761	0.0761
45	0.0754	0.0754
46	0.0749	0.0749
47	0.0682	0.0682
48	0.0655	0.0655
49	0.0640	0.0640
50	0.0627	0.0627
51	0.0610	0.0610
52	0.0594	0.0594
53	0.0571	0.0571
54	0.0529	0.0529

Stream Protection Duration

POC #1

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0485	870	870	100	Pass
0.0495	808	808	100	Pass
0.0506	757	757	100	Pass
0.0516	708	708	100	Pass
0.0526	655	655	100	Pass
0.0537	602	602	100	Pass
0.0547	572	572	100	Pass
0.0558	535	535	100	Pass
0.0568	501	501	100	Pass
0.0578	456	456	100	Pass
0.0589	420	420	100	Pass
0.0599	391	391	100	Pass
0.0610	378	378	100	Pass
0.0620	353	353	100	Pass
0.0631	328	328	100	Pass
0.0641	301	301	100	Pass
0.0651	280	280	100	Pass
0.0662	259	259	100	Pass
0.0672	246	246	100	Pass
0.0683	225	225	100	Pass
0.0693	216	216	100	Pass
0.0703	210	210	100	Pass
0.0714	196	196	100	Pass
0.0724	187	187	100	Pass
0.0735	175	175	100	Pass
0.0745	166	166	100	Pass
0.0755	154	154	100	Pass
0.0766	146	146	100	Pass

0.0776	141	141	100	Pass
0.0787	135	135	100	Pass
0.0797	130	130	100	Pass
0.0807	122	122	100	Pass
0.0818	113	113	100	Pass
0.0828	109	109	100	Pass
0.0839	99	99	100	Pass
0.0849	97	97	100	Pass
0.0859	94	94	100	Pass
0.0870	90	90	100	Pass
0.0880	87	87	100	Pass
0.0891	82	82	100	Pass
0.0901	79	79	100	Pass
0.0912	74	74	100	Pass
0.0922	71	71	100	Pass
0.0932	66	66	100	Pass
0.0943	64	64	100	Pass
0.0953	60	60	100	Pass
0.0964	56	56	100	Pass
0.0974	49	49	100	Pass
0.0984	48	48	100	Pass
0.0995	48	48	100	Pass
0.1005	46	46	100	Pass
0.1016	44	44	100	Pass
0.1026	42	42	100	Pass
0.1036	41	41	100	Pass
0.1047	37	37	100	Pass
0.1057	35	35	100	Pass
0.1068	34	34	100	Pass
0.1078	34	34	100	Pass
0.1088	27	27	100	Pass
0.1099	26	26	100	Pass
0.1109	24	24	100	Pass
0.1120	24	24	100	Pass
0.1130	24	24	100	Pass
0.1140	22	22	100	Pass
0.1151	20	20	100	Pass
0.1161	19	19	100	Pass
0.1172	16	16	100	Pass
0.1182	15	15	100	Pass
0.1193	15	15	100	Pass
0.1203	13	13	100	Pass
0.1213	12	12	100	Pass
0.1224	11	11	100	Pass
0.1234	11	11	100	Pass
0.1245	10	10	100	Pass
0.1255	10	10	100	Pass
0.1265	10	10	100	Pass
0.1276	9	9	100	Pass
0.1286	7	7	100	Pass
0.1297	7	7	100	Pass
0.1307	6	6	100	Pass
0.1317	6	6	100	Pass
0.1328	6	6	100	Pass
0.1338	6	6	100	Pass
0.1349	5	5	100	Pass
0.1359	5	5	100	Pass

0.1369	4	4	100	Pass
0.1380	4	4	100	Pass
0.1390	4	4	100	Pass
0.1401	4	4	100	Pass
0.1411	3	3	100	Pass
0.1421	3	3	100	Pass
0.1432	1	1	100	Pass
0.1442	1	1	100	Pass
0.1453	0	0	100	Pass
0.1463	0	0	0	Pass
0.1474	0	0	0	Pass
0.1484	0	0	0	Pass
0.1494	0	0	0	Pass
0.1505	0	0	0	Pass
0.1515	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #1
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 1
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	6.6535	6.6535	100.0	Pass
Feb	5.1136	5.1136	100.0	Pass
Mar	4.5139	4.5139	100.0	Pass
Apr	2.4710	2.4710	100.0	Pass
May	1.2549	1.2549	100.0	Pass
Jun	0.8107	0.8107	100.0	Pass
Jul	0.3893	0.3893	100.0	Pass
Aug	0.5724	0.5724	100.0	Pass
Sep	1.3635	1.3635	100.0	Pass
Oct	3.4915	3.4915	100.0	Pass
Nov	6.2135	6.2135	100.0	Pass
Dec	6.4198	6.4198	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.2124	0.2124	100.0	Pass
2	0.1715	0.1715	100.0	Pass
3	0.2113	0.2113	100.0	Pass
4	0.2436	0.2436	100.0	Pass
5	0.1867	0.1867	100.0	Pass
6	0.2653	0.2653	100.0	Pass
7	0.2161	0.2161	100.0	Pass
8	0.2145	0.2145	100.0	Pass
9	0.2247	0.2247	100.0	Pass
10	0.2222	0.2222	100.0	Pass
11	0.2672	0.2672	100.0	Pass
12	0.2174	0.2174	100.0	Pass
13	0.2648	0.2648	100.0	Pass

14	0.2670	0.2670	100.0	Pass
15	0.2463	0.2463	100.0	Pass
16	0.2082	0.2082	100.0	Pass
17	0.1976	0.1976	100.0	Pass
18	0.1747	0.1747	100.0	Pass
19	0.1710	0.1710	100.0	Pass
20	0.1183	0.1183	100.0	Pass
21	0.2007	0.2007	100.0	Pass
22	0.2505	0.2505	100.0	Pass
23	0.2841	0.2841	100.0	Pass
24	0.2049	0.2049	100.0	Pass
25	0.1741	0.1741	100.0	Pass
26	0.1570	0.1570	100.0	Pass
27	0.1883	0.1883	100.0	Pass
28	0.2370	0.2370	100.0	Pass
29	0.1892	0.1892	100.0	Pass
30	0.2167	0.2167	100.0	Pass
31	0.1399	0.1399	100.0	Pass
Feb1	0.1525	0.1525	100.0	Pass
2	0.1377	0.1377	100.0	Pass
3	0.1259	0.1259	100.0	Pass
4	0.1166	0.1166	100.0	Pass
5	0.2018	0.2018	100.0	Pass
6	0.1146	0.1146	100.0	Pass
7	0.1527	0.1527	100.0	Pass
8	0.1204	0.1204	100.0	Pass
9	0.1388	0.1388	100.0	Pass
10	0.1819	0.1819	100.0	Pass
11	0.2423	0.2423	100.0	Pass
12	0.1986	0.1986	100.0	Pass
13	0.2081	0.2081	100.0	Pass
14	0.2827	0.2827	100.0	Pass
15	0.2201	0.2201	100.0	Pass
16	0.2754	0.2754	100.0	Pass
17	0.2487	0.2487	100.0	Pass
18	0.2042	0.2042	100.0	Pass
19	0.1763	0.1763	100.0	Pass
20	0.1680	0.1680	100.0	Pass
21	0.1377	0.1377	100.0	Pass
22	0.1924	0.1924	100.0	Pass
23	0.1856	0.1856	100.0	Pass
24	0.2037	0.2037	100.0	Pass
25	0.1854	0.1854	100.0	Pass
26	0.1838	0.1838	100.0	Pass
27	0.1623	0.1623	100.0	Pass
28	0.2156	0.2156	100.0	Pass
29	0.1544	0.1544	100.0	Pass
Mar1	0.1507	0.1507	100.0	Pass
2	0.1257	0.1257	100.0	Pass
3	0.1693	0.1693	100.0	Pass
4	0.1788	0.1788	100.0	Pass
5	0.1439	0.1439	100.0	Pass
6	0.1795	0.1795	100.0	Pass
7	0.1740	0.1740	100.0	Pass
8	0.1714	0.1714	100.0	Pass
9	0.1719	0.1719	100.0	Pass
10	0.1524	0.1524	100.0	Pass

11	0.1630	0.1630	100.0	Pass
12	0.1450	0.1450	100.0	Pass
13	0.1728	0.1728	100.0	Pass
14	0.1410	0.1410	100.0	Pass
15	0.1157	0.1157	100.0	Pass
16	0.1095	0.1095	100.0	Pass
17	0.1456	0.1456	100.0	Pass
18	0.0937	0.0937	100.0	Pass
19	0.1318	0.1318	100.0	Pass
20	0.1089	0.1089	100.0	Pass
21	0.1755	0.1755	100.0	Pass
22	0.1986	0.1986	100.0	Pass
23	0.1717	0.1717	100.0	Pass
24	0.1166	0.1166	100.0	Pass
25	0.1646	0.1646	100.0	Pass
26	0.1259	0.1259	100.0	Pass
27	0.1174	0.1174	100.0	Pass
28	0.1315	0.1315	100.0	Pass
29	0.1203	0.1203	100.0	Pass
30	0.0930	0.0930	100.0	Pass
31	0.0748	0.0748	100.0	Pass
Apr1	0.0777	0.0777	100.0	Pass
2	0.0857	0.0857	100.0	Pass
3	0.1137	0.1137	100.0	Pass
4	0.1066	0.1066	100.0	Pass
5	0.1166	0.1166	100.0	Pass
6	0.0666	0.0666	100.0	Pass
7	0.1005	0.1005	100.0	Pass
8	0.1036	0.1036	100.0	Pass
9	0.0913	0.0913	100.0	Pass
10	0.0922	0.0922	100.0	Pass
11	0.1202	0.1202	100.0	Pass
12	0.1073	0.1073	100.0	Pass
13	0.1105	0.1105	100.0	Pass
14	0.0965	0.0965	100.0	Pass
15	0.1029	0.1029	100.0	Pass
16	0.0610	0.0610	100.0	Pass
17	0.0773	0.0773	100.0	Pass
18	0.0878	0.0878	100.0	Pass
19	0.0518	0.0518	100.0	Pass
20	0.0478	0.0478	100.0	Pass
21	0.0759	0.0759	100.0	Pass
22	0.0646	0.0646	100.0	Pass
23	0.0578	0.0578	100.0	Pass
24	0.0471	0.0471	100.0	Pass
25	0.0544	0.0544	100.0	Pass
26	0.0909	0.0909	100.0	Pass
27	0.0727	0.0727	100.0	Pass
28	0.0758	0.0758	100.0	Pass
29	0.0397	0.0397	100.0	Pass
30	0.0480	0.0480	100.0	Pass
May1	0.0718	0.0718	100.0	Pass
2	0.0550	0.0550	100.0	Pass
3	0.0572	0.0572	100.0	Pass
4	0.0466	0.0466	100.0	Pass
5	0.0441	0.0441	100.0	Pass
6	0.0372	0.0372	100.0	Pass

7	0.0481	0.0481	100.0	Pass
8	0.0309	0.0309	100.0	Pass
9	0.0410	0.0410	100.0	Pass
10	0.0332	0.0332	100.0	Pass
11	0.0310	0.0310	100.0	Pass
12	0.0439	0.0439	100.0	Pass
13	0.0471	0.0471	100.0	Pass
14	0.0461	0.0461	100.0	Pass
15	0.0327	0.0327	100.0	Pass
16	0.0401	0.0401	100.0	Pass
17	0.0336	0.0336	100.0	Pass
18	0.0519	0.0519	100.0	Pass
19	0.0292	0.0292	100.0	Pass
20	0.0274	0.0274	100.0	Pass
21	0.0280	0.0280	100.0	Pass
22	0.0335	0.0335	100.0	Pass
23	0.0302	0.0302	100.0	Pass
24	0.0317	0.0317	100.0	Pass
25	0.0269	0.0269	100.0	Pass
26	0.0451	0.0451	100.0	Pass
27	0.0364	0.0364	100.0	Pass
28	0.0388	0.0388	100.0	Pass
29	0.0529	0.0529	100.0	Pass
30	0.0354	0.0354	100.0	Pass
31	0.0384	0.0384	100.0	Pass
Jun1	0.0298	0.0298	100.0	Pass
2	0.0453	0.0453	100.0	Pass
3	0.0432	0.0432	100.0	Pass
4	0.0319	0.0319	100.0	Pass
5	0.0516	0.0516	100.0	Pass
6	0.0216	0.0216	100.0	Pass
7	0.0311	0.0311	100.0	Pass
8	0.0428	0.0428	100.0	Pass
9	0.0327	0.0327	100.0	Pass
10	0.0305	0.0305	100.0	Pass
11	0.0225	0.0225	100.0	Pass
12	0.0265	0.0265	100.0	Pass
13	0.0421	0.0421	100.0	Pass
14	0.0187	0.0187	100.0	Pass
15	0.0349	0.0349	100.0	Pass
16	0.0166	0.0166	100.0	Pass
17	0.0221	0.0221	100.0	Pass
18	0.0158	0.0158	100.0	Pass
19	0.0175	0.0175	100.0	Pass
20	0.0186	0.0186	100.0	Pass
21	0.0191	0.0191	100.0	Pass
22	0.0109	0.0109	100.0	Pass
23	0.0511	0.0511	100.0	Pass
24	0.0159	0.0159	100.0	Pass
25	0.0236	0.0236	100.0	Pass
26	0.0143	0.0143	100.0	Pass
27	0.0125	0.0125	100.0	Pass
28	0.0127	0.0127	100.0	Pass
29	0.0166	0.0166	100.0	Pass
30	0.0364	0.0364	100.0	Pass
Jul1	0.0101	0.0101	100.0	Pass
2	0.0082	0.0082	100.0	Pass

3	0.0085	0.0085	100.0	Pass
4	0.0199	0.0199	100.0	Pass
5	0.0151	0.0151	100.0	Pass
6	0.0115	0.0115	100.0	Pass
7	0.0227	0.0227	100.0	Pass
8	0.0136	0.0136	100.0	Pass
9	0.0268	0.0268	100.0	Pass
10	0.0181	0.0181	100.0	Pass
11	0.0372	0.0372	100.0	Pass
12	0.0212	0.0212	100.0	Pass
13	0.0151	0.0151	100.0	Pass
14	0.0214	0.0214	100.0	Pass
15	0.0090	0.0090	100.0	Pass
16	0.0056	0.0056	100.0	Pass
17	0.0179	0.0179	100.0	Pass
18	0.0068	0.0068	100.0	Pass
19	0.0077	0.0077	100.0	Pass
20	0.0128	0.0128	100.0	Pass
21	0.0106	0.0106	100.0	Pass
22	0.0014	0.0014	100.0	Pass
23	0.0031	0.0031	100.0	Pass
24	0.0034	0.0034	100.0	Pass
25	0.0072	0.0072	100.0	Pass
26	0.0030	0.0030	100.0	Pass
27	0.0045	0.0045	100.0	Pass
28	0.0038	0.0038	100.0	Pass
29	0.0025	0.0025	100.0	Pass
30	0.0042	0.0042	100.0	Pass
31	0.0048	0.0048	100.0	Pass
Aug1	0.0199	0.0199	100.0	Pass
2	0.0074	0.0074	100.0	Pass
3	0.0031	0.0031	100.0	Pass
4	0.0029	0.0029	100.0	Pass
5	0.0229	0.0229	100.0	Pass
6	0.0158	0.0158	100.0	Pass
7	0.0060	0.0060	100.0	Pass
8	0.0058	0.0058	100.0	Pass
9	0.0006	0.0006	100.0	Pass
10	0.0030	0.0030	100.0	Pass
11	0.0145	0.0145	100.0	Pass
12	0.0125	0.0125	100.0	Pass
13	0.0158	0.0158	100.0	Pass
14	0.0102	0.0102	100.0	Pass
15	0.0094	0.0094	100.0	Pass
16	0.0078	0.0078	100.0	Pass
17	0.0144	0.0144	100.0	Pass
18	0.0278	0.0278	100.0	Pass
19	0.0086	0.0086	100.0	Pass
20	0.0218	0.0218	100.0	Pass
21	0.0206	0.0206	100.0	Pass
22	0.0398	0.0398	100.0	Pass
23	0.0385	0.0385	100.0	Pass
24	0.0353	0.0353	100.0	Pass
25	0.0155	0.0155	100.0	Pass
26	0.0389	0.0389	100.0	Pass
27	0.0405	0.0405	100.0	Pass
28	0.0414	0.0414	100.0	Pass

29	0.0265	0.0265	100.0	Pass
30	0.0404	0.0404	100.0	Pass
31	0.0650	0.0650	100.0	Pass
Sep1	0.0286	0.0286	100.0	Pass
2	0.0276	0.0276	100.0	Pass
3	0.0289	0.0289	100.0	Pass
4	0.0351	0.0351	100.0	Pass
5	0.0305	0.0305	100.0	Pass
6	0.0213	0.0213	100.0	Pass
7	0.0391	0.0391	100.0	Pass
8	0.0261	0.0261	100.0	Pass
9	0.0632	0.0632	100.0	Pass
10	0.0169	0.0169	100.0	Pass
11	0.0135	0.0135	100.0	Pass
12	0.0334	0.0334	100.0	Pass
13	0.0633	0.0633	100.0	Pass
14	0.0424	0.0424	100.0	Pass
15	0.0624	0.0624	100.0	Pass
16	0.0688	0.0688	100.0	Pass
17	0.0734	0.0734	100.0	Pass
18	0.0665	0.0665	100.0	Pass
19	0.0723	0.0723	100.0	Pass
20	0.0552	0.0552	100.0	Pass
21	0.0746	0.0746	100.0	Pass
22	0.0605	0.0605	100.0	Pass
23	0.0475	0.0475	100.0	Pass
24	0.0342	0.0342	100.0	Pass
25	0.0347	0.0347	100.0	Pass
26	0.0351	0.0351	100.0	Pass
27	0.0482	0.0482	100.0	Pass
28	0.0415	0.0415	100.0	Pass
29	0.0539	0.0539	100.0	Pass
30	0.0408	0.0408	100.0	Pass
Oct1	0.0294	0.0294	100.0	Pass
2	0.0679	0.0679	100.0	Pass
3	0.0619	0.0619	100.0	Pass
4	0.0767	0.0767	100.0	Pass
5	0.0820	0.0820	100.0	Pass
6	0.0903	0.0903	100.0	Pass
7	0.1163	0.1163	100.0	Pass
8	0.0974	0.0974	100.0	Pass
9	0.0769	0.0769	100.0	Pass
10	0.0632	0.0632	100.0	Pass
11	0.1123	0.1123	100.0	Pass
12	0.0792	0.0792	100.0	Pass
13	0.1063	0.1063	100.0	Pass
14	0.0657	0.0657	100.0	Pass
15	0.0745	0.0745	100.0	Pass
16	0.0995	0.0995	100.0	Pass
17	0.0919	0.0919	100.0	Pass
18	0.1449	0.1449	100.0	Pass
19	0.1804	0.1804	100.0	Pass
20	0.1572	0.1572	100.0	Pass
21	0.1892	0.1892	100.0	Pass
22	0.1194	0.1194	100.0	Pass
23	0.1844	0.1844	100.0	Pass
24	0.1647	0.1647	100.0	Pass

25	0.1489	0.1489	100.0	Pass
26	0.1769	0.1769	100.0	Pass
27	0.1544	0.1544	100.0	Pass
28	0.1433	0.1433	100.0	Pass
29	0.1230	0.1230	100.0	Pass
30	0.1730	0.1730	100.0	Pass
31	0.1513	0.1513	100.0	Pass
Nov1	0.1880	0.1880	100.0	Pass
2	0.2221	0.2221	100.0	Pass
3	0.1825	0.1825	100.0	Pass
4	0.1809	0.1809	100.0	Pass
5	0.1995	0.1995	100.0	Pass
6	0.1712	0.1712	100.0	Pass
7	0.1548	0.1548	100.0	Pass
8	0.1922	0.1922	100.0	Pass
9	0.2278	0.2278	100.0	Pass
10	0.1996	0.1996	100.0	Pass
11	0.2209	0.2209	100.0	Pass
12	0.2046	0.2046	100.0	Pass
13	0.1607	0.1607	100.0	Pass
14	0.1802	0.1802	100.0	Pass
15	0.2012	0.2012	100.0	Pass
16	0.2098	0.2098	100.0	Pass
17	0.1948	0.1948	100.0	Pass
18	0.2791	0.2791	100.0	Pass
19	0.2561	0.2561	100.0	Pass
20	0.1775	0.1775	100.0	Pass
21	0.2627	0.2627	100.0	Pass
22	0.3059	0.3059	100.0	Pass
23	0.2450	0.2450	100.0	Pass
24	0.2747	0.2747	100.0	Pass
25	0.1914	0.1914	100.0	Pass
26	0.1554	0.1554	100.0	Pass
27	0.1787	0.1787	100.0	Pass
28	0.1710	0.1710	100.0	Pass
29	0.2744	0.2744	100.0	Pass
30	0.2290	0.2290	100.0	Pass
Dec1	0.2490	0.2490	100.0	Pass
2	0.2447	0.2447	100.0	Pass
3	0.1639	0.1639	100.0	Pass
4	0.1744	0.1744	100.0	Pass
5	0.1527	0.1527	100.0	Pass
6	0.1308	0.1308	100.0	Pass
7	0.1806	0.1806	100.0	Pass
8	0.2264	0.2264	100.0	Pass
9	0.2296	0.2296	100.0	Pass
10	0.2490	0.2490	100.0	Pass
11	0.1866	0.1866	100.0	Pass
12	0.1980	0.1980	100.0	Pass
13	0.2842	0.2842	100.0	Pass
14	0.2103	0.2103	100.0	Pass
15	0.2623	0.2623	100.0	Pass
16	0.1874	0.1874	100.0	Pass
17	0.2142	0.2142	100.0	Pass
18	0.1794	0.1794	100.0	Pass
19	0.2038	0.2038	100.0	Pass
20	0.2034	0.2034	100.0	Pass

21	0.2240	0.2240	100.0	Pass
22	0.2195	0.2195	100.0	Pass
23	0.2371	0.2371	100.0	Pass
24	0.2599	0.2599	100.0	Pass
25	0.2333	0.2333	100.0	Pass
26	0.2137	0.2137	100.0	Pass
27	0.1475	0.1475	100.0	Pass
28	0.2180	0.2180	100.0	Pass
29	0.1530	0.1530	100.0	Pass
30	0.1544	0.1544	100.0	Pass
31	0.2505	0.2505	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #2

Total Pervious Area:0.159

Total Impervious Area:0.529

Mitigated Landuse Totals for POC #2

Total Pervious Area:0.159

Total Impervious Area:0.529

Flow Frequency Return Periods for Predeveloped. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.400023
5 year	0.480116
10 year	0.523776
25 year	0.571212
50 year	0.602145
100 year	0.630048

Flow Frequency Return Periods for Mitigated. POC #2

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.400023
5 year	0.480116
10 year	0.523776
25 year	0.571212
50 year	0.602145
100 year	0.630048

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #2

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.433	0.433
1957	0.523	0.523
1958	0.396	0.396
1959	0.413	0.413
1960	0.431	0.431
1961	0.330	0.330

1962	0.566	0.566
1963	0.514	0.514
1964	0.438	0.438
1965	0.440	0.440
1966	0.437	0.437
1967	0.270	0.270
1968	0.415	0.415
1969	0.400	0.400
1970	0.363	0.363
1971	0.578	0.578
1972	0.492	0.492
1973	0.443	0.443
1974	0.438	0.438
1975	0.383	0.383
1976	0.471	0.471
1977	0.336	0.336
1978	0.584	0.584
1979	0.370	0.370
1980	0.338	0.338
1981	0.429	0.429
1982	0.495	0.495
1983	0.391	0.391
1984	0.371	0.371
1985	0.268	0.268
1986	0.443	0.443
1987	0.308	0.308
1988	0.472	0.472
1989	0.389	0.389
1990	0.519	0.519
1991	0.317	0.317
1992	0.254	0.254
1993	0.282	0.282
1994	0.375	0.375
1995	0.347	0.347
1996	0.426	0.426
1997	0.432	0.432
1998	0.267	0.267
1999	0.341	0.341
2000	0.311	0.311
2001	0.295	0.295
2002	0.444	0.444
2003	0.556	0.556
2004	0.512	0.512
2005	0.401	0.401
2006	0.410	0.410
2007	0.486	0.486
2008	0.244	0.244
2009	0.230	0.230

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #2

Rank	Predeveloped	Mitigated
1	0.5841	0.5841
2	0.5777	0.5777
3	0.5663	0.5663
4	0.5565	0.5565

5	0.5227	0.5227
6	0.5192	0.5192
7	0.5140	0.5140
8	0.5123	0.5123
9	0.4951	0.4951
10	0.4918	0.4918
11	0.4863	0.4863
12	0.4722	0.4722
13	0.4708	0.4708
14	0.4441	0.4441
15	0.4433	0.4433
16	0.4428	0.4428
17	0.4400	0.4400
18	0.4382	0.4382
19	0.4381	0.4381
20	0.4371	0.4371
21	0.4326	0.4326
22	0.4317	0.4317
23	0.4308	0.4308
24	0.4291	0.4291
25	0.4262	0.4262
26	0.4150	0.4150
27	0.4132	0.4132
28	0.4103	0.4103
29	0.4007	0.4007
30	0.3996	0.3996
31	0.3957	0.3957
32	0.3911	0.3911
33	0.3889	0.3889
34	0.3833	0.3833
35	0.3754	0.3754
36	0.3707	0.3707
37	0.3701	0.3701
38	0.3630	0.3630
39	0.3466	0.3466
40	0.3407	0.3407
41	0.3379	0.3379
42	0.3359	0.3359
43	0.3295	0.3295
44	0.3172	0.3172
45	0.3111	0.3111
46	0.3078	0.3078
47	0.2946	0.2946
48	0.2819	0.2819
49	0.2701	0.2701
50	0.2677	0.2677
51	0.2673	0.2673
52	0.2545	0.2545
53	0.2445	0.2445
54	0.2299	0.2299

Stream Protection Duration

POC #2

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2000	1010	1010	100	Pass
0.2041	947	947	100	Pass
0.2081	878	878	100	Pass
0.2122	817	817	100	Pass
0.2163	766	766	100	Pass
0.2203	706	706	100	Pass
0.2244	650	650	100	Pass
0.2284	606	606	100	Pass
0.2325	566	566	100	Pass
0.2366	523	523	100	Pass
0.2406	494	494	100	Pass
0.2447	457	457	100	Pass
0.2488	425	425	100	Pass
0.2528	404	404	100	Pass
0.2569	381	381	100	Pass
0.2609	348	348	100	Pass
0.2650	325	325	100	Pass
0.2691	302	302	100	Pass
0.2731	284	284	100	Pass
0.2772	264	264	100	Pass
0.2813	247	247	100	Pass
0.2853	235	235	100	Pass
0.2894	224	224	100	Pass
0.2934	210	210	100	Pass
0.2975	199	199	100	Pass
0.3016	186	186	100	Pass
0.3056	179	179	100	Pass
0.3097	168	168	100	Pass
0.3137	162	162	100	Pass
0.3178	155	155	100	Pass
0.3219	144	144	100	Pass
0.3259	139	139	100	Pass
0.3300	134	134	100	Pass
0.3341	122	122	100	Pass
0.3381	114	114	100	Pass
0.3422	104	104	100	Pass
0.3462	99	99	100	Pass
0.3503	94	94	100	Pass
0.3544	92	92	100	Pass
0.3584	90	90	100	Pass
0.3625	86	86	100	Pass
0.3666	79	79	100	Pass
0.3706	78	78	100	Pass
0.3747	74	74	100	Pass
0.3787	72	72	100	Pass
0.3828	69	69	100	Pass
0.3869	66	66	100	Pass
0.3909	58	58	100	Pass
0.3950	53	53	100	Pass
0.3990	50	50	100	Pass
0.4031	48	48	100	Pass
0.4072	47	47	100	Pass
0.4112	45	45	100	Pass
0.4153	43	43	100	Pass
0.4194	42	42	100	Pass

0.4234	41	41	100	Pass
0.4275	39	39	100	Pass
0.4315	36	36	100	Pass
0.4356	33	33	100	Pass
0.4397	30	30	100	Pass
0.4437	27	27	100	Pass
0.4478	24	24	100	Pass
0.4519	24	24	100	Pass
0.4559	23	23	100	Pass
0.4600	22	22	100	Pass
0.4640	22	22	100	Pass
0.4681	20	20	100	Pass
0.4722	17	17	100	Pass
0.4762	16	16	100	Pass
0.4803	15	15	100	Pass
0.4843	15	15	100	Pass
0.4884	13	13	100	Pass
0.4925	12	12	100	Pass
0.4965	10	10	100	Pass
0.5006	10	10	100	Pass
0.5047	10	10	100	Pass
0.5087	10	10	100	Pass
0.5128	10	10	100	Pass
0.5168	8	8	100	Pass
0.5209	7	7	100	Pass
0.5250	6	6	100	Pass
0.5290	6	6	100	Pass
0.5331	5	5	100	Pass
0.5372	5	5	100	Pass
0.5412	5	5	100	Pass
0.5453	5	5	100	Pass
0.5493	4	4	100	Pass
0.5534	4	4	100	Pass
0.5575	3	3	100	Pass
0.5615	3	3	100	Pass
0.5656	3	3	100	Pass
0.5696	2	2	100	Pass
0.5737	2	2	100	Pass
0.5778	2	2	100	Pass
0.5818	1	1	100	Pass
0.5859	0	0	100	Pass
0.5900	0	0	0	Pass
0.5940	0	0	0	Pass
0.5981	0	0	0	Pass
0.6021	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #2

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 2

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	26.0454	26.0454	100.0	Pass
Feb	19.9520	19.9520	100.0	Pass
Mar	17.6536	17.6536	100.0	Pass
Apr	9.7861	9.7861	100.0	Pass
May	5.1672	5.1672	100.0	Pass
Jun	3.4038	3.4038	100.0	Pass
Jul	1.6714	1.6714	100.0	Pass
Aug	2.4944	2.4944	100.0	Pass
Sep	5.7548	5.7548	100.0	Pass
Oct	14.2845	14.2845	100.0	Pass
Nov	24.6191	24.6191	100.0	Pass
Dec	25.1290	25.1290	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.8347	0.8347	100.0	Pass
2	0.6594	0.6594	100.0	Pass
3	0.8355	0.8355	100.0	Pass
4	0.9783	0.9783	100.0	Pass
5	0.7174	0.7174	100.0	Pass
6	1.0685	1.0685	100.0	Pass
7	0.8342	0.8342	100.0	Pass
8	0.8364	0.8364	100.0	Pass
9	0.8899	0.8899	100.0	Pass
10	0.8667	0.8667	100.0	Pass
11	1.0578	1.0578	100.0	Pass
12	0.8357	0.8357	100.0	Pass
13	1.0471	1.0471	100.0	Pass
14	1.0464	1.0464	100.0	Pass
15	0.9564	0.9564	100.0	Pass
16	0.7883	0.7883	100.0	Pass
17	0.7543	0.7543	100.0	Pass
18	0.6659	0.6659	100.0	Pass
19	0.6629	0.6629	100.0	Pass
20	0.4392	0.4392	100.0	Pass
21	0.8257	0.8257	100.0	Pass
22	1.0046	1.0046	100.0	Pass
23	1.1268	1.1268	100.0	Pass
24	0.7765	0.7765	100.0	Pass
25	0.6582	0.6582	100.0	Pass
26	0.5943	0.5943	100.0	Pass
27	0.7442	0.7442	100.0	Pass
28	0.9455	0.9455	100.0	Pass
29	0.7282	0.7282	100.0	Pass
30	0.8564	0.8564	100.0	Pass
31	0.5208	0.5208	100.0	Pass
Feb1	0.5890	0.5890	100.0	Pass
2	0.5369	0.5369	100.0	Pass
3	0.4860	0.4860	100.0	Pass
4	0.4502	0.4502	100.0	Pass
5	0.8212	0.8212	100.0	Pass
6	0.4238	0.4238	100.0	Pass
7	0.6070	0.6070	100.0	Pass
8	0.4640	0.4640	100.0	Pass
9	0.5547	0.5547	100.0	Pass

10	0.7365	0.7365	100.0	Pass
11	0.9722	0.9722	100.0	Pass
12	0.7665	0.7665	100.0	Pass
13	0.8200	0.8200	100.0	Pass
14	1.1423	1.1423	100.0	Pass
15	0.8413	0.8413	100.0	Pass
16	1.0939	1.0939	100.0	Pass
17	0.9667	0.9667	100.0	Pass
18	0.7676	0.7676	100.0	Pass
19	0.6671	0.6671	100.0	Pass
20	0.6416	0.6416	100.0	Pass
21	0.5257	0.5257	100.0	Pass
22	0.7638	0.7638	100.0	Pass
23	0.7280	0.7280	100.0	Pass
24	0.8015	0.8015	100.0	Pass
25	0.7183	0.7183	100.0	Pass
26	0.7085	0.7085	100.0	Pass
27	0.6211	0.6211	100.0	Pass
28	0.8387	0.8387	100.0	Pass
29	0.5969	0.5969	100.0	Pass
Mar1	0.5871	0.5871	100.0	Pass
2	0.4811	0.4811	100.0	Pass
3	0.6754	0.6754	100.0	Pass
4	0.7078	0.7078	100.0	Pass
5	0.5584	0.5584	100.0	Pass
6	0.7046	0.7046	100.0	Pass
7	0.6899	0.6899	100.0	Pass
8	0.6712	0.6712	100.0	Pass
9	0.6731	0.6731	100.0	Pass
10	0.5880	0.5880	100.0	Pass
11	0.6369	0.6369	100.0	Pass
12	0.5639	0.5639	100.0	Pass
13	0.6825	0.6825	100.0	Pass
14	0.5431	0.5431	100.0	Pass
15	0.4419	0.4419	100.0	Pass
16	0.4251	0.4251	100.0	Pass
17	0.5758	0.5758	100.0	Pass
18	0.3540	0.3540	100.0	Pass
19	0.5275	0.5275	100.0	Pass
20	0.4260	0.4260	100.0	Pass
21	0.7144	0.7144	100.0	Pass
22	0.8016	0.8016	100.0	Pass
23	0.6665	0.6665	100.0	Pass
24	0.4303	0.4303	100.0	Pass
25	0.6558	0.6558	100.0	Pass
26	0.4803	0.4803	100.0	Pass
27	0.4585	0.4585	100.0	Pass
28	0.5140	0.5140	100.0	Pass
29	0.4706	0.4706	100.0	Pass
30	0.3532	0.3532	100.0	Pass
31	0.2844	0.2844	100.0	Pass
Apr1	0.3036	0.3036	100.0	Pass
2	0.3410	0.3410	100.0	Pass
3	0.4664	0.4664	100.0	Pass
4	0.4242	0.4242	100.0	Pass
5	0.4576	0.4576	100.0	Pass
6	0.2470	0.2470	100.0	Pass

7	0.4065	0.4065	100.0	Pass
8	0.4107	0.4107	100.0	Pass
9	0.3636	0.3636	100.0	Pass
10	0.3609	0.3609	100.0	Pass
11	0.4932	0.4932	100.0	Pass
12	0.4240	0.4240	100.0	Pass
13	0.4421	0.4421	100.0	Pass
14	0.3771	0.3771	100.0	Pass
15	0.4042	0.4042	100.0	Pass
16	0.2248	0.2248	100.0	Pass
17	0.3083	0.3083	100.0	Pass
18	0.3544	0.3544	100.0	Pass
19	0.1924	0.1924	100.0	Pass
20	0.1858	0.1858	100.0	Pass
21	0.3131	0.3131	100.0	Pass
22	0.2608	0.2608	100.0	Pass
23	0.2283	0.2283	100.0	Pass
24	0.1841	0.1841	100.0	Pass
25	0.2217	0.2217	100.0	Pass
26	0.3720	0.3720	100.0	Pass
27	0.2881	0.2881	100.0	Pass
28	0.3011	0.3011	100.0	Pass
29	0.1459	0.1459	100.0	Pass
30	0.1939	0.1939	100.0	Pass
May1	0.3010	0.3010	100.0	Pass
2	0.2184	0.2184	100.0	Pass
3	0.2335	0.2335	100.0	Pass
4	0.1841	0.1841	100.0	Pass
5	0.1772	0.1772	100.0	Pass
6	0.1496	0.1496	100.0	Pass
7	0.1988	0.1988	100.0	Pass
8	0.1214	0.1214	100.0	Pass
9	0.1705	0.1705	100.0	Pass
10	0.1363	0.1363	100.0	Pass
11	0.1281	0.1281	100.0	Pass
12	0.1834	0.1834	100.0	Pass
13	0.1971	0.1971	100.0	Pass
14	0.1928	0.1928	100.0	Pass
15	0.1284	0.1284	100.0	Pass
16	0.1674	0.1674	100.0	Pass
17	0.1367	0.1367	100.0	Pass
18	0.2226	0.2226	100.0	Pass
19	0.1164	0.1164	100.0	Pass
20	0.1136	0.1136	100.0	Pass
21	0.1161	0.1161	100.0	Pass
22	0.1430	0.1430	100.0	Pass
23	0.1254	0.1254	100.0	Pass
24	0.1317	0.1317	100.0	Pass
25	0.1100	0.1100	100.0	Pass
26	0.1921	0.1921	100.0	Pass
27	0.1502	0.1502	100.0	Pass
28	0.1627	0.1627	100.0	Pass
29	0.2222	0.2222	100.0	Pass
30	0.1431	0.1431	100.0	Pass
31	0.1563	0.1563	100.0	Pass
Jun1	0.1171	0.1171	100.0	Pass
2	0.1943	0.1943	100.0	Pass

	3	0.1837	0.1837	100.0	Pass
	4	0.1313	0.1313	100.0	Pass
	5	0.2210	0.2210	100.0	Pass
	6	0.0824	0.0824	100.0	Pass
	7	0.1277	0.1277	100.0	Pass
	8	0.1803	0.1803	100.0	Pass
	9	0.1352	0.1352	100.0	Pass
	10	0.1285	0.1285	100.0	Pass
	11	0.0929	0.0929	100.0	Pass
	12	0.1136	0.1136	100.0	Pass
	13	0.1817	0.1817	100.0	Pass
	14	0.0739	0.0739	100.0	Pass
	15	0.1488	0.1488	100.0	Pass
	16	0.0647	0.0647	100.0	Pass
	17	0.0922	0.0922	100.0	Pass
	18	0.0622	0.0622	100.0	Pass
	19	0.0744	0.0744	100.0	Pass
	20	0.0812	0.0812	100.0	Pass
	21	0.0814	0.0814	100.0	Pass
	22	0.0441	0.0441	100.0	Pass
	23	0.2291	0.2291	100.0	Pass
	24	0.0604	0.0604	100.0	Pass
	25	0.1010	0.1010	100.0	Pass
	26	0.0602	0.0602	100.0	Pass
	27	0.0544	0.0544	100.0	Pass
	28	0.0561	0.0561	100.0	Pass
	29	0.0741	0.0741	100.0	Pass
	30	0.1611	0.1611	100.0	Pass
Jul11		0.0396	0.0396	100.0	Pass
	2	0.0341	0.0341	100.0	Pass
	3	0.0373	0.0373	100.0	Pass
	4	0.0915	0.0915	100.0	Pass
	5	0.0683	0.0683	100.0	Pass
	6	0.0517	0.0517	100.0	Pass
	7	0.1005	0.1005	100.0	Pass
	8	0.0564	0.0564	100.0	Pass
	9	0.1189	0.1189	100.0	Pass
	10	0.0771	0.0771	100.0	Pass
	11	0.1584	0.1584	100.0	Pass
	12	0.0797	0.0797	100.0	Pass
	13	0.0589	0.0589	100.0	Pass
	14	0.0916	0.0916	100.0	Pass
	15	0.0363	0.0363	100.0	Pass
	16	0.0229	0.0229	100.0	Pass
	17	0.0788	0.0788	100.0	Pass
	18	0.0262	0.0262	100.0	Pass
	19	0.0325	0.0325	100.0	Pass
	20	0.0573	0.0573	100.0	Pass
	21	0.0454	0.0454	100.0	Pass
	22	0.0039	0.0039	100.0	Pass
	23	0.0130	0.0130	100.0	Pass
	24	0.0149	0.0149	100.0	Pass
	25	0.0333	0.0333	100.0	Pass
	26	0.0137	0.0137	100.0	Pass
	27	0.0209	0.0209	100.0	Pass
	28	0.0172	0.0172	100.0	Pass
	29	0.0110	0.0110	100.0	Pass

30	0.0192	0.0192	100.0	Pass
31	0.0223	0.0223	100.0	Pass
Aug1	0.0916	0.0916	100.0	Pass
2	0.0315	0.0315	100.0	Pass
3	0.0119	0.0119	100.0	Pass
4	0.0120	0.0120	100.0	Pass
5	0.1040	0.1040	100.0	Pass
6	0.0694	0.0694	100.0	Pass
7	0.0248	0.0248	100.0	Pass
8	0.0254	0.0254	100.0	Pass
9	0.0018	0.0018	100.0	Pass
10	0.0133	0.0133	100.0	Pass
11	0.0667	0.0667	100.0	Pass
12	0.0569	0.0569	100.0	Pass
13	0.0717	0.0717	100.0	Pass
14	0.0439	0.0439	100.0	Pass
15	0.0394	0.0394	100.0	Pass
16	0.0336	0.0336	100.0	Pass
17	0.0659	0.0659	100.0	Pass
18	0.1274	0.1274	100.0	Pass
19	0.0352	0.0352	100.0	Pass
20	0.0988	0.0988	100.0	Pass
21	0.0910	0.0910	100.0	Pass
22	0.1773	0.1773	100.0	Pass
23	0.1665	0.1665	100.0	Pass
24	0.1445	0.1445	100.0	Pass
25	0.0583	0.0583	100.0	Pass
26	0.1713	0.1713	100.0	Pass
27	0.1748	0.1748	100.0	Pass
28	0.1753	0.1753	100.0	Pass
29	0.1102	0.1102	100.0	Pass
30	0.1778	0.1778	100.0	Pass
31	0.2826	0.2826	100.0	Pass
Sep1	0.1099	0.1099	100.0	Pass
2	0.1121	0.1121	100.0	Pass
3	0.1210	0.1210	100.0	Pass
4	0.1518	0.1518	100.0	Pass
5	0.1300	0.1300	100.0	Pass
6	0.0890	0.0890	100.0	Pass
7	0.1736	0.1736	100.0	Pass
8	0.1105	0.1105	100.0	Pass
9	0.2820	0.2820	100.0	Pass
10	0.0666	0.0666	100.0	Pass
11	0.0561	0.0561	100.0	Pass
12	0.1489	0.1489	100.0	Pass
13	0.2799	0.2799	100.0	Pass
14	0.1786	0.1786	100.0	Pass
15	0.2702	0.2702	100.0	Pass
16	0.2877	0.2877	100.0	Pass
17	0.3128	0.3128	100.0	Pass
18	0.2817	0.2817	100.0	Pass
19	0.3017	0.3017	100.0	Pass
20	0.2210	0.2210	100.0	Pass
21	0.3055	0.3055	100.0	Pass
22	0.2452	0.2452	100.0	Pass
23	0.1932	0.1932	100.0	Pass
24	0.1386	0.1386	100.0	Pass

25	0.1467	0.1467	100.0	Pass
26	0.1482	0.1482	100.0	Pass
27	0.2023	0.2023	100.0	Pass
28	0.1756	0.1756	100.0	Pass
29	0.2324	0.2324	100.0	Pass
30	0.1685	0.1685	100.0	Pass
Oct1	0.1183	0.1183	100.0	Pass
2	0.2986	0.2986	100.0	Pass
3	0.2669	0.2669	100.0	Pass
4	0.3267	0.3267	100.0	Pass
5	0.3472	0.3472	100.0	Pass
6	0.3838	0.3838	100.0	Pass
7	0.4915	0.4915	100.0	Pass
8	0.4007	0.4007	100.0	Pass
9	0.3114	0.3114	100.0	Pass
10	0.2545	0.2545	100.0	Pass
11	0.4808	0.4808	100.0	Pass
12	0.3241	0.3241	100.0	Pass
13	0.4511	0.4511	100.0	Pass
14	0.2588	0.2588	100.0	Pass
15	0.3049	0.3049	100.0	Pass
16	0.4112	0.4112	100.0	Pass
17	0.3758	0.3758	100.0	Pass
18	0.6020	0.6020	100.0	Pass
19	0.7422	0.7422	100.0	Pass
20	0.6411	0.6411	100.0	Pass
21	0.7742	0.7742	100.0	Pass
22	0.4587	0.4587	100.0	Pass
23	0.7537	0.7537	100.0	Pass
24	0.6620	0.6620	100.0	Pass
25	0.5927	0.5927	100.0	Pass
26	0.7170	0.7170	100.0	Pass
27	0.6105	0.6105	100.0	Pass
28	0.5681	0.5681	100.0	Pass
29	0.4808	0.4808	100.0	Pass
30	0.7086	0.7086	100.0	Pass
31	0.5996	0.5996	100.0	Pass
Nov1	0.7555	0.7555	100.0	Pass
2	0.9119	0.9119	100.0	Pass
3	0.7122	0.7122	100.0	Pass
4	0.7209	0.7209	100.0	Pass
5	0.7968	0.7968	100.0	Pass
6	0.6673	0.6673	100.0	Pass
7	0.6047	0.6047	100.0	Pass
8	0.7783	0.7783	100.0	Pass
9	0.9198	0.9198	100.0	Pass
10	0.7892	0.7892	100.0	Pass
11	0.8818	0.8818	100.0	Pass
12	0.8156	0.8156	100.0	Pass
13	0.6130	0.6130	100.0	Pass
14	0.7155	0.7155	100.0	Pass
15	0.8038	0.8038	100.0	Pass
16	0.8393	0.8393	100.0	Pass
17	0.7681	0.7681	100.0	Pass
18	1.1278	1.1278	100.0	Pass
19	1.0101	1.0101	100.0	Pass
20	0.6707	0.6707	100.0	Pass

21	1.0507	1.0507	100.0	Pass
22	1.2404	1.2404	100.0	Pass
23	0.9480	0.9480	100.0	Pass
24	1.0834	1.0834	100.0	Pass
25	0.7174	0.7174	100.0	Pass
26	0.5828	0.5828	100.0	Pass
27	0.7061	0.7061	100.0	Pass
28	0.6737	0.6737	100.0	Pass
29	1.1162	1.1162	100.0	Pass
30	0.8934	0.8934	100.0	Pass
Dec1	0.9857	0.9857	100.0	Pass
2	0.9554	0.9554	100.0	Pass
3	0.6141	0.6141	100.0	Pass
4	0.6797	0.6797	100.0	Pass
5	0.5842	0.5842	100.0	Pass
6	0.5064	0.5064	100.0	Pass
7	0.7284	0.7284	100.0	Pass
8	0.9150	0.9150	100.0	Pass
9	0.9087	0.9087	100.0	Pass
10	0.9810	0.9810	100.0	Pass
11	0.7167	0.7167	100.0	Pass
12	0.7755	0.7755	100.0	Pass
13	1.1518	1.1518	100.0	Pass
14	0.8016	0.8016	100.0	Pass
15	1.0460	1.0460	100.0	Pass
16	0.7068	0.7068	100.0	Pass
17	0.8417	0.8417	100.0	Pass
18	0.6926	0.6926	100.0	Pass
19	0.8119	0.8119	100.0	Pass
20	0.7963	0.7963	100.0	Pass
21	0.8766	0.8766	100.0	Pass
22	0.8625	0.8625	100.0	Pass
23	0.9368	0.9368	100.0	Pass
24	1.0372	1.0372	100.0	Pass
25	0.9014	0.9014	100.0	Pass
26	0.8219	0.8219	100.0	Pass
27	0.5527	0.5527	100.0	Pass
28	0.8711	0.8711	100.0	Pass
29	0.5764	0.5764	100.0	Pass
30	0.6007	0.6007	100.0	Pass
31	1.0119	1.0119	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #3
Total Pervious Area:0.403
Total Impervious Area:0.833

Mitigated Landuse Totals for POC #3
Total Pervious Area:0.403
Total Impervious Area:0.833

Flow Frequency Return Periods for Predeveloped. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.680107
5 year	0.824563
10 year	0.903887
25 year	0.990489
50 year	1.047178
100 year	1.098453

Flow Frequency Return Periods for Mitigated. POC #3

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.680107
5 year	0.824563
10 year	0.903887
25 year	0.990489
50 year	1.047178
100 year	1.098453

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #3

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.753	0.753
1957	0.893	0.893
1958	0.667	0.667
1959	0.714	0.714
1960	0.748	0.748
1961	0.544	0.544
1962	0.985	0.985
1963	0.889	0.889
1964	0.744	0.744
1965	0.755	0.755
1966	0.758	0.758
1967	0.453	0.453
1968	0.713	0.713
1969	0.694	0.694
1970	0.606	0.606
1971	1.001	1.001
1972	0.858	0.858
1973	0.755	0.755
1974	0.761	0.761
1975	0.656	0.656
1976	0.811	0.811
1977	0.569	0.569
1978	0.998	0.998
1979	0.635	0.635
1980	0.573	0.573
1981	0.729	0.729
1982	0.840	0.840
1983	0.665	0.665
1984	0.636	0.636
1985	0.438	0.438
1986	0.759	0.759
1987	0.524	0.524
1988	0.810	0.810

1989	0.661	0.661
1990	0.900	0.900
1991	0.541	0.541
1992	0.423	0.423
1993	0.467	0.467
1994	0.638	0.638
1995	0.560	0.560
1996	0.695	0.695
1997	0.730	0.730
1998	0.445	0.445
1999	0.577	0.577
2000	0.529	0.529
2001	0.487	0.487
2002	0.706	0.706
2003	0.969	0.969
2004	0.884	0.884
2005	0.685	0.685
2006	0.705	0.705
2007	0.841	0.841
2008	0.406	0.406
2009	0.379	0.379

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #3

Rank	Predeveloped	Mitigated
1	1.0010	1.0010
2	0.9977	0.9977
3	0.9850	0.9850
4	0.9693	0.9693
5	0.9000	0.9000
6	0.8934	0.8934
7	0.8894	0.8894
8	0.8840	0.8840
9	0.8583	0.8583
10	0.8414	0.8414
11	0.8398	0.8398
12	0.8107	0.8107
13	0.8102	0.8102
14	0.7614	0.7614
15	0.7590	0.7590
16	0.7582	0.7582
17	0.7555	0.7555
18	0.7551	0.7551
19	0.7526	0.7526
20	0.7481	0.7481
21	0.7439	0.7439
22	0.7295	0.7295
23	0.7289	0.7289
24	0.7142	0.7142
25	0.7131	0.7131
26	0.7061	0.7061
27	0.7052	0.7052
28	0.6953	0.6953
29	0.6943	0.6943
30	0.6846	0.6846
31	0.6668	0.6668

32	0.6650	0.6650
33	0.6607	0.6607
34	0.6562	0.6562
35	0.6384	0.6384
36	0.6365	0.6365
37	0.6346	0.6346
38	0.6061	0.6061
39	0.5769	0.5769
40	0.5733	0.5733
41	0.5692	0.5692
42	0.5605	0.5605
43	0.5437	0.5437
44	0.5415	0.5415
45	0.5287	0.5287
46	0.5244	0.5244
47	0.4868	0.4868
48	0.4669	0.4669
49	0.4529	0.4529
50	0.4451	0.4451
51	0.4383	0.4383
52	0.4228	0.4228
53	0.4062	0.4062
54	0.3787	0.3787

Stream Protection Duration

POC #3

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3401	927	927	100	Pass
0.3472	855	855	100	Pass
0.3543	788	788	100	Pass
0.3615	749	749	100	Pass
0.3686	696	696	100	Pass
0.3758	641	641	100	Pass
0.3829	592	592	100	Pass
0.3901	563	563	100	Pass
0.3972	521	521	100	Pass
0.4043	480	480	100	Pass
0.4115	451	451	100	Pass
0.4186	416	416	100	Pass
0.4258	391	391	100	Pass
0.4329	373	373	100	Pass
0.4401	344	344	100	Pass
0.4472	322	322	100	Pass
0.4543	300	300	100	Pass
0.4615	276	276	100	Pass
0.4686	260	260	100	Pass
0.4758	242	242	100	Pass
0.4829	224	224	100	Pass
0.4900	214	214	100	Pass
0.4972	208	208	100	Pass
0.5043	194	194	100	Pass
0.5115	182	182	100	Pass

0.5186	176	176	100	Pass
0.5258	165	165	100	Pass
0.5329	152	152	100	Pass
0.5400	147	147	100	Pass
0.5472	138	138	100	Pass
0.5543	134	134	100	Pass
0.5615	128	128	100	Pass
0.5686	123	123	100	Pass
0.5758	112	112	100	Pass
0.5829	106	106	100	Pass
0.5900	96	96	100	Pass
0.5972	95	95	100	Pass
0.6043	93	93	100	Pass
0.6115	89	89	100	Pass
0.6186	86	86	100	Pass
0.6258	81	81	100	Pass
0.6329	80	80	100	Pass
0.6400	71	71	100	Pass
0.6472	70	70	100	Pass
0.6543	67	67	100	Pass
0.6615	63	63	100	Pass
0.6686	57	57	100	Pass
0.6758	51	51	100	Pass
0.6829	51	51	100	Pass
0.6900	50	50	100	Pass
0.6972	47	47	100	Pass
0.7043	46	46	100	Pass
0.7115	43	43	100	Pass
0.7186	41	41	100	Pass
0.7258	40	40	100	Pass
0.7329	35	35	100	Pass
0.7400	35	35	100	Pass
0.7472	34	34	100	Pass
0.7543	31	31	100	Pass
0.7615	26	26	100	Pass
0.7686	24	24	100	Pass
0.7758	24	24	100	Pass
0.7829	24	24	100	Pass
0.7900	23	23	100	Pass
0.7972	20	20	100	Pass
0.8043	20	20	100	Pass
0.8115	17	17	100	Pass
0.8186	15	15	100	Pass
0.8258	15	15	100	Pass
0.8329	15	15	100	Pass
0.8400	13	13	100	Pass
0.8472	12	12	100	Pass
0.8543	11	11	100	Pass
0.8615	10	10	100	Pass
0.8686	10	10	100	Pass
0.8758	10	10	100	Pass
0.8829	10	10	100	Pass
0.8900	8	8	100	Pass
0.8972	7	7	100	Pass
0.9043	6	6	100	Pass
0.9115	6	6	100	Pass
0.9186	6	6	100	Pass

0.9258	6	6	100	Pass
0.9329	5	5	100	Pass
0.9400	5	5	100	Pass
0.9472	4	4	100	Pass
0.9543	4	4	100	Pass
0.9615	4	4	100	Pass
0.9686	4	4	100	Pass
0.9758	3	3	100	Pass
0.9829	3	3	100	Pass
0.9900	2	2	100	Pass
0.9972	2	2	100	Pass
1.0043	0	0	100	Pass
1.0115	0	0	0	Pass
1.0186	0	0	0	Pass
1.0257	0	0	0	Pass
1.0329	0	0	0	Pass
1.0400	0	0	0	Pass
1.0472	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #3
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 3
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	45.7614	45.7614	100.0	Pass
Feb	35.1288	35.1288	100.0	Pass
Mar	31.0348	31.0348	100.0	Pass
Apr	17.0679	17.0679	100.0	Pass
May	8.7950	8.7950	100.0	Pass
Jun	5.7240	5.7240	100.0	Pass
Jul	2.7727	2.7727	100.0	Pass
Aug	4.1001	4.1001	100.0	Pass
Sep	9.6469	9.6469	100.0	Pass
Oct	24.4106	24.4106	100.0	Pass
Nov	42.9262	42.9262	100.0	Pass
Dec	44.1528	44.1528	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.4632	1.4632	100.0	Pass
2	1.1719	1.1719	100.0	Pass
3	1.4585	1.4585	100.0	Pass
4	1.6915	1.6915	100.0	Pass
5	1.2753	1.2753	100.0	Pass
6	1.8439	1.8439	100.0	Pass
7	1.4786	1.4786	100.0	Pass
8	1.4731	1.4731	100.0	Pass
9	1.5520	1.5520	100.0	Pass
10	1.5263	1.5263	100.0	Pass

11	1.8452	1.8452	100.0	Pass
12	1.4854	1.4854	100.0	Pass
13	1.8282	1.8282	100.0	Pass
14	1.8370	1.8370	100.0	Pass
15	1.6890	1.6890	100.0	Pass
16	1.4149	1.4149	100.0	Pass
17	1.3466	1.3466	100.0	Pass
18	1.1900	1.1900	100.0	Pass
19	1.1719	1.1719	100.0	Pass
20	0.7981	0.7981	100.0	Pass
21	1.4062	1.4062	100.0	Pass
22	1.7385	1.7385	100.0	Pass
23	1.9636	1.9636	100.0	Pass
24	1.3928	1.3928	100.0	Pass
25	1.1824	1.1824	100.0	Pass
26	1.0667	1.0667	100.0	Pass
27	1.2996	1.2996	100.0	Pass
28	1.6415	1.6415	100.0	Pass
29	1.2934	1.2934	100.0	Pass
30	1.4954	1.4954	100.0	Pass
31	0.9450	0.9450	100.0	Pass
Feb1	1.0435	1.0435	100.0	Pass
2	0.9459	0.9459	100.0	Pass
3	0.8614	0.8614	100.0	Pass
4	0.7981	0.7981	100.0	Pass
5	1.4081	1.4081	100.0	Pass
6	0.7723	0.7723	100.0	Pass
7	1.0564	1.0564	100.0	Pass
8	0.8235	0.8235	100.0	Pass
9	0.9618	0.9618	100.0	Pass
10	1.2668	1.2668	100.0	Pass
11	1.6817	1.6817	100.0	Pass
12	1.3590	1.3590	100.0	Pass
13	1.4347	1.4347	100.0	Pass
14	1.9675	1.9675	100.0	Pass
15	1.5008	1.5008	100.0	Pass
16	1.9043	1.9043	100.0	Pass
17	1.7061	1.7061	100.0	Pass
18	1.3839	1.3839	100.0	Pass
19	1.1976	1.1976	100.0	Pass
20	1.1450	1.1450	100.0	Pass
21	0.9387	0.9387	100.0	Pass
22	1.3300	1.3300	100.0	Pass
23	1.2774	1.2774	100.0	Pass
24	1.4037	1.4037	100.0	Pass
25	1.2705	1.2705	100.0	Pass
26	1.2571	1.2571	100.0	Pass
27	1.1069	1.1069	100.0	Pass
28	1.4794	1.4794	100.0	Pass
29	1.0570	1.0570	100.0	Pass
Mar1	1.0347	1.0347	100.0	Pass
2	0.8574	0.8574	100.0	Pass
3	1.1723	1.1723	100.0	Pass
4	1.2348	1.2348	100.0	Pass
5	0.9867	0.9867	100.0	Pass
6	1.2357	1.2357	100.0	Pass
7	1.2021	1.2021	100.0	Pass

8	1.1790	1.1790	100.0	Pass
9	1.1825	1.1825	100.0	Pass
10	1.0428	1.0428	100.0	Pass
11	1.1202	1.1202	100.0	Pass
12	0.9949	0.9949	100.0	Pass
13	1.1926	1.1926	100.0	Pass
14	0.9642	0.9642	100.0	Pass
15	0.7887	0.7887	100.0	Pass
16	0.7507	0.7507	100.0	Pass
17	1.0053	1.0053	100.0	Pass
18	0.6364	0.6364	100.0	Pass
19	0.9138	0.9138	100.0	Pass
20	0.7489	0.7489	100.0	Pass
21	1.2246	1.2246	100.0	Pass
22	1.3813	1.3813	100.0	Pass
23	1.1774	1.1774	100.0	Pass
24	0.7849	0.7849	100.0	Pass
25	1.1394	1.1394	100.0	Pass
26	0.8580	0.8580	100.0	Pass
27	0.8068	0.8068	100.0	Pass
28	0.9041	0.9041	100.0	Pass
29	0.8272	0.8272	100.0	Pass
30	0.6326	0.6326	100.0	Pass
31	0.5092	0.5092	100.0	Pass
Apr1	0.5338	0.5338	100.0	Pass
2	0.5931	0.5931	100.0	Pass
3	0.7956	0.7956	100.0	Pass
4	0.7377	0.7377	100.0	Pass
5	0.8026	0.8026	100.0	Pass
6	0.4493	0.4493	100.0	Pass
7	0.6995	0.6995	100.0	Pass
8	0.7157	0.7157	100.0	Pass
9	0.6321	0.6321	100.0	Pass
10	0.6340	0.6340	100.0	Pass
11	0.8411	0.8411	100.0	Pass
12	0.7406	0.7406	100.0	Pass
13	0.7661	0.7661	100.0	Pass
14	0.6633	0.6633	100.0	Pass
15	0.7087	0.7087	100.0	Pass
16	0.4105	0.4105	100.0	Pass
17	0.5353	0.5353	100.0	Pass
18	0.6108	0.6108	100.0	Pass
19	0.3498	0.3498	100.0	Pass
20	0.3277	0.3277	100.0	Pass
21	0.5321	0.5321	100.0	Pass
22	0.4494	0.4494	100.0	Pass
23	0.3989	0.3989	100.0	Pass
24	0.3235	0.3235	100.0	Pass
25	0.3799	0.3799	100.0	Pass
26	0.6357	0.6357	100.0	Pass
27	0.5022	0.5022	100.0	Pass
28	0.5242	0.5242	100.0	Pass
29	0.2669	0.2669	100.0	Pass
30	0.3341	0.3341	100.0	Pass
May1	0.5066	0.5066	100.0	Pass
2	0.3802	0.3802	100.0	Pass
3	0.3997	0.3997	100.0	Pass

4	0.3215	0.3215	100.0	Pass
5	0.3065	0.3065	100.0	Pass
6	0.2583	0.2583	100.0	Pass
7	0.3375	0.3375	100.0	Pass
8	0.2129	0.2129	100.0	Pass
9	0.2886	0.2886	100.0	Pass
10	0.2324	0.2324	100.0	Pass
11	0.2176	0.2176	100.0	Pass
12	0.3092	0.3092	100.0	Pass
13	0.3323	0.3323	100.0	Pass
14	0.3250	0.3250	100.0	Pass
15	0.2252	0.2252	100.0	Pass
16	0.2823	0.2823	100.0	Pass
17	0.2346	0.2346	100.0	Pass
18	0.3696	0.3696	100.0	Pass
19	0.2020	0.2020	100.0	Pass
20	0.1924	0.1924	100.0	Pass
21	0.1967	0.1967	100.0	Pass
22	0.2379	0.2379	100.0	Pass
23	0.2122	0.2122	100.0	Pass
24	0.2230	0.2230	100.0	Pass
25	0.1880	0.1880	100.0	Pass
26	0.3204	0.3204	100.0	Pass
27	0.2552	0.2552	100.0	Pass
28	0.2740	0.2740	100.0	Pass
29	0.3737	0.3737	100.0	Pass
30	0.2464	0.2464	100.0	Pass
31	0.2680	0.2680	100.0	Pass
Jun1	0.2052	0.2052	100.0	Pass
2	0.3225	0.3225	100.0	Pass
3	0.3065	0.3065	100.0	Pass
4	0.2236	0.2236	100.0	Pass
5	0.3672	0.3672	100.0	Pass
6	0.1470	0.1470	100.0	Pass
7	0.2177	0.2177	100.0	Pass
8	0.3026	0.3026	100.0	Pass
9	0.2295	0.2295	100.0	Pass
10	0.2154	0.2154	100.0	Pass
11	0.1580	0.1580	100.0	Pass
12	0.1884	0.1884	100.0	Pass
13	0.3005	0.3005	100.0	Pass
14	0.1291	0.1291	100.0	Pass
15	0.2480	0.2480	100.0	Pass
16	0.1141	0.1141	100.0	Pass
17	0.1556	0.1556	100.0	Pass
18	0.1089	0.1089	100.0	Pass
19	0.1239	0.1239	100.0	Pass
20	0.1335	0.1335	100.0	Pass
21	0.1357	0.1357	100.0	Pass
22	0.0758	0.0758	100.0	Pass
23	0.3702	0.3702	100.0	Pass
24	0.1083	0.1083	100.0	Pass
25	0.1681	0.1681	100.0	Pass
26	0.1008	0.1008	100.0	Pass
27	0.0894	0.0894	100.0	Pass
28	0.0916	0.0916	100.0	Pass
29	0.1199	0.1199	100.0	Pass

30	0.2624	0.2624	100.0	Pass
Jul11	0.0693	0.0693	100.0	Pass
2	0.0575	0.0575	100.0	Pass
3	0.0612	0.0612	100.0	Pass
4	0.1456	0.1456	100.0	Pass
5	0.1098	0.1098	100.0	Pass
6	0.0835	0.0835	100.0	Pass
7	0.1635	0.1635	100.0	Pass
8	0.0957	0.0957	100.0	Pass
9	0.1935	0.1935	100.0	Pass
10	0.1284	0.1284	100.0	Pass
11	0.2640	0.2640	100.0	Pass
12	0.1437	0.1437	100.0	Pass
13	0.1038	0.1038	100.0	Pass
14	0.1523	0.1523	100.0	Pass
15	0.0627	0.0627	100.0	Pass
16	0.0394	0.0394	100.0	Pass
17	0.1290	0.1290	100.0	Pass
18	0.0465	0.0465	100.0	Pass
19	0.0545	0.0545	100.0	Pass
20	0.0929	0.0929	100.0	Pass
21	0.0756	0.0756	100.0	Pass
22	0.0087	0.0087	100.0	Pass
23	0.0217	0.0217	100.0	Pass
24	0.0242	0.0242	100.0	Pass
25	0.0529	0.0529	100.0	Pass
26	0.0219	0.0219	100.0	Pass
27	0.0331	0.0331	100.0	Pass
28	0.0275	0.0275	100.0	Pass
29	0.0178	0.0178	100.0	Pass
30	0.0305	0.0305	100.0	Pass
31	0.0354	0.0354	100.0	Pass
Aug1	0.1457	0.1457	100.0	Pass
2	0.0525	0.0525	100.0	Pass
3	0.0209	0.0209	100.0	Pass
4	0.0203	0.0203	100.0	Pass
5	0.1669	0.1669	100.0	Pass
6	0.1137	0.1137	100.0	Pass
7	0.0423	0.0423	100.0	Pass
8	0.0418	0.0418	100.0	Pass
9	0.0038	0.0038	100.0	Pass
10	0.0216	0.0216	100.0	Pass
11	0.1060	0.1060	100.0	Pass
12	0.0911	0.0911	100.0	Pass
13	0.1152	0.1152	100.0	Pass
14	0.0726	0.0726	100.0	Pass
15	0.0662	0.0662	100.0	Pass
16	0.0555	0.0555	100.0	Pass
17	0.1053	0.1053	100.0	Pass
18	0.2030	0.2030	100.0	Pass
19	0.0600	0.0600	100.0	Pass
20	0.1586	0.1586	100.0	Pass
21	0.1485	0.1485	100.0	Pass
22	0.2874	0.2874	100.0	Pass
23	0.2750	0.2750	100.0	Pass
24	0.2470	0.2470	100.0	Pass
25	0.1049	0.1049	100.0	Pass

26	0.2798	0.2798	100.0	Pass
27	0.2890	0.2890	100.0	Pass
28	0.2935	0.2935	100.0	Pass
29	0.1864	0.1864	100.0	Pass
30	0.2904	0.2904	100.0	Pass
31	0.4651	0.4651	100.0	Pass
Sep1	0.1953	0.1953	100.0	Pass
2	0.1925	0.1925	100.0	Pass
3	0.2037	0.2037	100.0	Pass
4	0.2508	0.2508	100.0	Pass
5	0.2164	0.2164	100.0	Pass
6	0.1503	0.1503	100.0	Pass
7	0.2820	0.2820	100.0	Pass
8	0.1849	0.1849	100.0	Pass
9	0.4569	0.4569	100.0	Pass
10	0.1163	0.1163	100.0	Pass
11	0.0949	0.0949	100.0	Pass
12	0.2416	0.2416	100.0	Pass
13	0.4560	0.4560	100.0	Pass
14	0.2997	0.2997	100.0	Pass
15	0.4459	0.4459	100.0	Pass
16	0.4851	0.4851	100.0	Pass
17	0.5212	0.5212	100.0	Pass
18	0.4710	0.4710	100.0	Pass
19	0.5093	0.5093	100.0	Pass
20	0.3828	0.3828	100.0	Pass
21	0.5219	0.5219	100.0	Pass
22	0.4217	0.4217	100.0	Pass
23	0.3315	0.3315	100.0	Pass
24	0.2382	0.2382	100.0	Pass
25	0.2458	0.2458	100.0	Pass
26	0.2481	0.2481	100.0	Pass
27	0.3405	0.3405	100.0	Pass
28	0.2938	0.2938	100.0	Pass
29	0.3846	0.3846	100.0	Pass
30	0.2863	0.2863	100.0	Pass
Oct1	0.2041	0.2041	100.0	Pass
2	0.4880	0.4880	100.0	Pass
3	0.4415	0.4415	100.0	Pass
4	0.5447	0.5447	100.0	Pass
5	0.5810	0.5810	100.0	Pass
6	0.6403	0.6403	100.0	Pass
7	0.8232	0.8232	100.0	Pass
8	0.6826	0.6826	100.0	Pass
9	0.5357	0.5357	100.0	Pass
10	0.4393	0.4393	100.0	Pass
11	0.7991	0.7991	100.0	Pass
12	0.5537	0.5537	100.0	Pass
13	0.7534	0.7534	100.0	Pass
14	0.4530	0.4530	100.0	Pass
15	0.5209	0.5209	100.0	Pass
16	0.6984	0.6984	100.0	Pass
17	0.6422	0.6422	100.0	Pass
18	1.0189	1.0189	100.0	Pass
19	1.2640	1.2640	100.0	Pass
20	1.0977	1.0977	100.0	Pass
21	1.3228	1.3228	100.0	Pass

22	0.8156	0.8156	100.0	Pass
23	1.2889	1.2889	100.0	Pass
24	1.1438	1.1438	100.0	Pass
25	1.0303	1.0303	100.0	Pass
26	1.2323	1.2323	100.0	Pass
27	1.0660	1.0660	100.0	Pass
28	0.9902	0.9902	100.0	Pass
29	0.8457	0.8457	100.0	Pass
30	1.2100	1.2100	100.0	Pass
31	1.0456	1.0456	100.0	Pass
Nov1	1.3056	1.3056	100.0	Pass
2	1.5550	1.5550	100.0	Pass
3	1.2536	1.2536	100.0	Pass
4	1.2524	1.2524	100.0	Pass
5	1.3822	1.3822	100.0	Pass
6	1.1755	1.1755	100.0	Pass
7	1.0638	1.0638	100.0	Pass
8	1.3387	1.3387	100.0	Pass
9	1.5849	1.5849	100.0	Pass
10	1.3777	1.3777	100.0	Pass
11	1.5301	1.5301	100.0	Pass
12	1.4167	1.4167	100.0	Pass
13	1.0948	1.0948	100.0	Pass
14	1.2457	1.2457	100.0	Pass
15	1.3942	1.3942	100.0	Pass
16	1.4545	1.4545	100.0	Pass
17	1.3434	1.3434	100.0	Pass
18	1.9423	1.9423	100.0	Pass
19	1.7661	1.7661	100.0	Pass
20	1.2054	1.2054	100.0	Pass
21	1.8213	1.8213	100.0	Pass
22	2.1316	2.1316	100.0	Pass
23	1.6781	1.6781	100.0	Pass
24	1.8946	1.8946	100.0	Pass
25	1.2957	1.2957	100.0	Pass
26	1.0523	1.0523	100.0	Pass
27	1.2334	1.2334	100.0	Pass
28	1.1790	1.1790	100.0	Pass
29	1.9142	1.9142	100.0	Pass
30	1.5731	1.5731	100.0	Pass
Dec1	1.7195	1.7195	100.0	Pass
2	1.6814	1.6814	100.0	Pass
3	1.1094	1.1094	100.0	Pass
4	1.1974	1.1974	100.0	Pass
5	1.0417	1.0417	100.0	Pass
6	0.8959	0.8959	100.0	Pass
7	1.2560	1.2560	100.0	Pass
8	1.5758	1.5758	100.0	Pass
9	1.5856	1.5856	100.0	Pass
10	1.7166	1.7166	100.0	Pass
11	1.2744	1.2744	100.0	Pass
12	1.3618	1.3618	100.0	Pass
13	1.9801	1.9801	100.0	Pass
14	1.4323	1.4323	100.0	Pass
15	1.8165	1.8165	100.0	Pass
16	1.2716	1.2716	100.0	Pass
17	1.4754	1.4754	100.0	Pass

18	1.2276	1.2276	100.0	Pass
19	1.4109	1.4109	100.0	Pass
20	1.3992	1.3992	100.0	Pass
21	1.5403	1.5403	100.0	Pass
22	1.5117	1.5117	100.0	Pass
23	1.6364	1.6364	100.0	Pass
24	1.8003	1.8003	100.0	Pass
25	1.5968	1.5968	100.0	Pass
26	1.4603	1.4603	100.0	Pass
27	0.9984	0.9984	100.0	Pass
28	1.5108	1.5108	100.0	Pass
29	1.0380	1.0380	100.0	Pass
30	1.0597	1.0597	100.0	Pass
31	1.7431	1.7431	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #4
Total Pervious Area:0.271
Total Impervious Area:0.447

Mitigated Landuse Totals for POC #4
Total Pervious Area:0.271
Total Impervious Area:0.447

Flow Frequency Return Periods for Predeveloped. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.382919
5 year	0.467214
10 year	0.513716
25 year	0.564639
50 year	0.598053
100 year	0.628328

Flow Frequency Return Periods for Mitigated. POC #4

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.382919
5 year	0.467214
10 year	0.513716
25 year	0.564639
50 year	0.598053
100 year	0.628328

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #4

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.429	0.429
1957	0.505	0.505
1958	0.374	0.374

1959	0.406	0.406
1960	0.426	0.426
1961	0.301	0.301
1962	0.562	0.562
1963	0.506	0.506
1964	0.419	0.419
1965	0.428	0.428
1966	0.432	0.432
1967	0.253	0.253
1968	0.404	0.404
1969	0.396	0.396
1970	0.338	0.338
1971	0.570	0.570
1972	0.491	0.491
1973	0.426	0.426
1974	0.434	0.434
1975	0.371	0.371
1976	0.460	0.460
1977	0.320	0.320
1978	0.563	0.563
1979	0.359	0.359
1980	0.323	0.323
1981	0.410	0.410
1982	0.472	0.472
1983	0.374	0.374
1984	0.360	0.360
1985	0.241	0.241
1986	0.429	0.429
1987	0.296	0.296
1988	0.459	0.459
1989	0.372	0.372
1990	0.513	0.513
1991	0.306	0.306
1992	0.235	0.235
1993	0.259	0.259
1994	0.360	0.360
1995	0.306	0.306
1996	0.382	0.382
1997	0.409	0.409
1998	0.248	0.248
1999	0.324	0.324
2000	0.298	0.298
2001	0.269	0.269
2002	0.381	0.381
2003	0.554	0.554
2004	0.502	0.502
2005	0.387	0.387
2006	0.400	0.400
2007	0.479	0.479
2008	0.226	0.226
2009	0.209	0.209

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #4

Rank	Predeveloped	Mitigated
1	0.5699	0.5699

2	0.5634	0.5634
3	0.5620	0.5620
4	0.5535	0.5535
5	0.5125	0.5125
6	0.5059	0.5059
7	0.5046	0.5046
8	0.5020	0.5020
9	0.4907	0.4907
10	0.4787	0.4787
11	0.4722	0.4722
12	0.4599	0.4599
13	0.4586	0.4586
14	0.4342	0.4342
15	0.4320	0.4320
16	0.4295	0.4295
17	0.4294	0.4294
18	0.4279	0.4279
19	0.4265	0.4265
20	0.4257	0.4257
21	0.4186	0.4186
22	0.4103	0.4103
23	0.4093	0.4093
24	0.4061	0.4061
25	0.4041	0.4041
26	0.3996	0.3996
27	0.3959	0.3959
28	0.3866	0.3866
29	0.3817	0.3817
30	0.3813	0.3813
31	0.3745	0.3745
32	0.3735	0.3735
33	0.3719	0.3719
34	0.3710	0.3710
35	0.3604	0.3604
36	0.3595	0.3595
37	0.3592	0.3592
38	0.3376	0.3376
39	0.3241	0.3241
40	0.3227	0.3227
41	0.3199	0.3199
42	0.3062	0.3062
43	0.3060	0.3060
44	0.3007	0.3007
45	0.2977	0.2977
46	0.2956	0.2956
47	0.2694	0.2694
48	0.2588	0.2588
49	0.2529	0.2529
50	0.2476	0.2476
51	0.2412	0.2412
52	0.2348	0.2348
53	0.2256	0.2256
54	0.2092	0.2092

Stream Protection Duration
POC #4

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1915	885	885	100	Pass
0.1956	820	820	100	Pass
0.1997	762	762	100	Pass
0.2038	717	717	100	Pass
0.2079	674	674	100	Pass
0.2120	615	615	100	Pass
0.2161	572	572	100	Pass
0.2202	535	535	100	Pass
0.2243	501	501	100	Pass
0.2284	461	461	100	Pass
0.2325	427	427	100	Pass
0.2366	398	398	100	Pass
0.2407	381	381	100	Pass
0.2449	362	362	100	Pass
0.2490	338	338	100	Pass
0.2531	301	301	100	Pass
0.2572	283	283	100	Pass
0.2613	259	259	100	Pass
0.2654	247	247	100	Pass
0.2695	227	227	100	Pass
0.2736	217	217	100	Pass
0.2777	212	212	100	Pass
0.2818	197	197	100	Pass
0.2859	189	189	100	Pass
0.2900	176	176	100	Pass
0.2941	167	167	100	Pass
0.2982	154	154	100	Pass
0.3023	147	147	100	Pass
0.3065	143	143	100	Pass
0.3106	135	135	100	Pass
0.3147	130	130	100	Pass
0.3188	126	126	100	Pass
0.3229	118	118	100	Pass
0.3270	110	110	100	Pass
0.3311	99	99	100	Pass
0.3352	97	97	100	Pass
0.3393	94	94	100	Pass
0.3434	90	90	100	Pass
0.3475	88	88	100	Pass
0.3516	82	82	100	Pass
0.3557	79	79	100	Pass
0.3598	77	77	100	Pass
0.3640	72	72	100	Pass
0.3681	67	67	100	Pass
0.3722	64	64	100	Pass
0.3763	60	60	100	Pass
0.3804	56	56	100	Pass
0.3845	49	49	100	Pass
0.3886	48	48	100	Pass
0.3927	48	48	100	Pass
0.3968	46	46	100	Pass
0.4009	44	44	100	Pass

0.4050	42	42	100	Pass
0.4091	41	41	100	Pass
0.4132	37	37	100	Pass
0.4173	35	35	100	Pass
0.4215	34	34	100	Pass
0.4256	34	34	100	Pass
0.4297	29	29	100	Pass
0.4338	26	26	100	Pass
0.4379	24	24	100	Pass
0.4420	24	24	100	Pass
0.4461	24	24	100	Pass
0.4502	22	22	100	Pass
0.4543	20	20	100	Pass
0.4584	19	19	100	Pass
0.4625	16	16	100	Pass
0.4666	15	15	100	Pass
0.4707	15	15	100	Pass
0.4748	14	14	100	Pass
0.4789	13	13	100	Pass
0.4831	11	11	100	Pass
0.4872	11	11	100	Pass
0.4913	10	10	100	Pass
0.4954	10	10	100	Pass
0.4995	10	10	100	Pass
0.5036	9	9	100	Pass
0.5077	7	7	100	Pass
0.5118	7	7	100	Pass
0.5159	6	6	100	Pass
0.5200	6	6	100	Pass
0.5241	6	6	100	Pass
0.5282	6	6	100	Pass
0.5323	5	5	100	Pass
0.5364	5	5	100	Pass
0.5406	4	4	100	Pass
0.5447	4	4	100	Pass
0.5488	4	4	100	Pass
0.5529	4	4	100	Pass
0.5570	3	3	100	Pass
0.5611	3	3	100	Pass
0.5652	1	1	100	Pass
0.5693	1	1	100	Pass
0.5734	0	0	100	Pass
0.5775	0	0	0	Pass
0.5816	0	0	0	Pass
0.5857	0	0	0	Pass
0.5898	0	0	0	Pass
0.5939	0	0	0	Pass
0.5981	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #4

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 4

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	26.2588	26.2588	100.0	Pass
Feb	20.1813	20.1813	100.0	Pass
Mar	17.8146	17.8146	100.0	Pass
Apr	9.7536	9.7536	100.0	Pass
May	4.9556	4.9556	100.0	Pass
Jun	3.2023	3.2023	100.0	Pass
Jul	1.5383	1.5383	100.0	Pass
Aug	2.2620	2.2620	100.0	Pass
Sep	5.3862	5.3862	100.0	Pass
Oct	13.7868	13.7868	100.0	Pass
Nov	24.5260	24.5260	100.0	Pass
Dec	25.3367	25.3367	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.8385	0.8385	100.0	Pass
2	0.6767	0.6767	100.0	Pass
3	0.8339	0.8339	100.0	Pass
4	0.9619	0.9619	100.0	Pass
5	0.7366	0.7366	100.0	Pass
6	1.0473	1.0473	100.0	Pass
7	0.8527	0.8527	100.0	Pass
8	0.8464	0.8464	100.0	Pass
9	0.8869	0.8869	100.0	Pass
10	0.8769	0.8769	100.0	Pass
11	1.0546	1.0546	100.0	Pass
12	0.8579	0.8579	100.0	Pass
13	1.0454	1.0454	100.0	Pass
14	1.0536	1.0536	100.0	Pass
15	0.9720	0.9720	100.0	Pass
16	0.8215	0.8215	100.0	Pass
17	0.7796	0.7796	100.0	Pass
18	0.6893	0.6893	100.0	Pass
19	0.6748	0.6748	100.0	Pass
20	0.4665	0.4665	100.0	Pass
21	0.7926	0.7926	100.0	Pass
22	0.9891	0.9891	100.0	Pass
23	1.1215	1.1215	100.0	Pass
24	0.8084	0.8084	100.0	Pass
25	0.6868	0.6868	100.0	Pass
26	0.6194	0.6194	100.0	Pass
27	0.7433	0.7433	100.0	Pass
28	0.9356	0.9356	100.0	Pass
29	0.7467	0.7467	100.0	Pass
30	0.8552	0.8552	100.0	Pass
31	0.5519	0.5519	100.0	Pass
Feb1	0.6016	0.6016	100.0	Pass
2	0.5436	0.5436	100.0	Pass
3	0.4967	0.4967	100.0	Pass
4	0.4603	0.4603	100.0	Pass
5	0.7969	0.7969	100.0	Pass
6	0.4521	0.4521	100.0	Pass

7	0.6029	0.6029	100.0	Pass
8	0.4752	0.4752	100.0	Pass
9	0.5478	0.5478	100.0	Pass
10	0.7182	0.7182	100.0	Pass
11	0.9565	0.9565	100.0	Pass
12	0.7838	0.7838	100.0	Pass
13	0.8214	0.8214	100.0	Pass
14	1.1163	1.1163	100.0	Pass
15	0.8685	0.8685	100.0	Pass
16	1.0871	1.0871	100.0	Pass
17	0.9814	0.9814	100.0	Pass
18	0.8054	0.8054	100.0	Pass
19	0.6955	0.6955	100.0	Pass
20	0.6627	0.6627	100.0	Pass
21	0.5434	0.5434	100.0	Pass
22	0.7593	0.7593	100.0	Pass
23	0.7325	0.7325	100.0	Pass
24	0.8040	0.8040	100.0	Pass
25	0.7318	0.7318	100.0	Pass
26	0.7253	0.7253	100.0	Pass
27	0.6402	0.6402	100.0	Pass
28	0.8508	0.8508	100.0	Pass
29	0.6092	0.6092	100.0	Pass
Mar1	0.5948	0.5948	100.0	Pass
2	0.4959	0.4959	100.0	Pass
3	0.6682	0.6682	100.0	Pass
4	0.7057	0.7057	100.0	Pass
5	0.5681	0.5681	100.0	Pass
6	0.7084	0.7084	100.0	Pass
7	0.6866	0.6866	100.0	Pass
8	0.6765	0.6765	100.0	Pass
9	0.6785	0.6785	100.0	Pass
10	0.6015	0.6015	100.0	Pass
11	0.6432	0.6432	100.0	Pass
12	0.5723	0.5723	100.0	Pass
13	0.6822	0.6822	100.0	Pass
14	0.5565	0.5565	100.0	Pass
15	0.4565	0.4565	100.0	Pass
16	0.4320	0.4320	100.0	Pass
17	0.5748	0.5748	100.0	Pass
18	0.3698	0.3698	100.0	Pass
19	0.5202	0.5202	100.0	Pass
20	0.4299	0.4299	100.0	Pass
21	0.6929	0.6929	100.0	Pass
22	0.7839	0.7839	100.0	Pass
23	0.6777	0.6777	100.0	Pass
24	0.4597	0.4597	100.0	Pass
25	0.6497	0.6497	100.0	Pass
26	0.4969	0.4969	100.0	Pass
27	0.4634	0.4634	100.0	Pass
28	0.5192	0.5192	100.0	Pass
29	0.4748	0.4748	100.0	Pass
30	0.3668	0.3668	100.0	Pass
31	0.2953	0.2953	100.0	Pass
Apr1	0.3065	0.3065	100.0	Pass
2	0.3384	0.3384	100.0	Pass
3	0.4488	0.4488	100.0	Pass

4	0.4209	0.4209	100.0	Pass
5	0.4602	0.4602	100.0	Pass
6	0.2628	0.2628	100.0	Pass
7	0.3966	0.3966	100.0	Pass
8	0.4088	0.4088	100.0	Pass
9	0.3606	0.3606	100.0	Pass
10	0.3638	0.3638	100.0	Pass
11	0.4745	0.4745	100.0	Pass
12	0.4236	0.4236	100.0	Pass
13	0.4362	0.4362	100.0	Pass
14	0.3809	0.3809	100.0	Pass
15	0.4062	0.4062	100.0	Pass
16	0.2405	0.2405	100.0	Pass
17	0.3051	0.3051	100.0	Pass
18	0.3467	0.3467	100.0	Pass
19	0.2045	0.2045	100.0	Pass
20	0.1884	0.1884	100.0	Pass
21	0.2996	0.2996	100.0	Pass
22	0.2551	0.2551	100.0	Pass
23	0.2282	0.2282	100.0	Pass
24	0.1857	0.1857	100.0	Pass
25	0.2149	0.2149	100.0	Pass
26	0.3590	0.3590	100.0	Pass
27	0.2869	0.2869	100.0	Pass
28	0.2993	0.2993	100.0	Pass
29	0.1565	0.1565	100.0	Pass
30	0.1896	0.1896	100.0	Pass
May1	0.2836	0.2836	100.0	Pass
2	0.2171	0.2171	100.0	Pass
3	0.2260	0.2260	100.0	Pass
4	0.1838	0.1838	100.0	Pass
5	0.1743	0.1743	100.0	Pass
6	0.1467	0.1467	100.0	Pass
7	0.1899	0.1899	100.0	Pass
8	0.1221	0.1221	100.0	Pass
9	0.1621	0.1621	100.0	Pass
10	0.1311	0.1311	100.0	Pass
11	0.1224	0.1224	100.0	Pass
12	0.1733	0.1733	100.0	Pass
13	0.1862	0.1862	100.0	Pass
14	0.1821	0.1821	100.0	Pass
15	0.1291	0.1291	100.0	Pass
16	0.1582	0.1582	100.0	Pass
17	0.1328	0.1328	100.0	Pass
18	0.2051	0.2051	100.0	Pass
19	0.1151	0.1151	100.0	Pass
20	0.1081	0.1081	100.0	Pass
21	0.1105	0.1105	100.0	Pass
22	0.1323	0.1323	100.0	Pass
23	0.1191	0.1191	100.0	Pass
24	0.1253	0.1253	100.0	Pass
25	0.1062	0.1062	100.0	Pass
26	0.1783	0.1783	100.0	Pass
27	0.1436	0.1436	100.0	Pass
28	0.1534	0.1534	100.0	Pass
29	0.2091	0.2091	100.0	Pass
30	0.1397	0.1397	100.0	Pass

31	0.1517	0.1517	100.0	Pass
Jun1	0.1175	0.1175	100.0	Pass
2	0.1790	0.1790	100.0	Pass
3	0.1706	0.1706	100.0	Pass
4	0.1260	0.1260	100.0	Pass
5	0.2039	0.2039	100.0	Pass
6	0.0850	0.0850	100.0	Pass
7	0.1228	0.1228	100.0	Pass
8	0.1691	0.1691	100.0	Pass
9	0.1291	0.1291	100.0	Pass
10	0.1203	0.1203	100.0	Pass
11	0.0890	0.0890	100.0	Pass
12	0.1045	0.1045	100.0	Pass
13	0.1664	0.1664	100.0	Pass
14	0.0739	0.0739	100.0	Pass
15	0.1380	0.1380	100.0	Pass
16	0.0656	0.0656	100.0	Pass
17	0.0872	0.0872	100.0	Pass
18	0.0623	0.0623	100.0	Pass
19	0.0690	0.0690	100.0	Pass
20	0.0737	0.0737	100.0	Pass
21	0.0755	0.0755	100.0	Pass
22	0.0429	0.0429	100.0	Pass
23	0.2020	0.2020	100.0	Pass
24	0.0628	0.0628	100.0	Pass
25	0.0934	0.0934	100.0	Pass
26	0.0563	0.0563	100.0	Pass
27	0.0494	0.0494	100.0	Pass
28	0.0503	0.0503	100.0	Pass
29	0.0655	0.0655	100.0	Pass
30	0.1439	0.1439	100.0	Pass
Jul1	0.0397	0.0397	100.0	Pass
2	0.0322	0.0322	100.0	Pass
3	0.0337	0.0337	100.0	Pass
4	0.0787	0.0787	100.0	Pass
5	0.0597	0.0597	100.0	Pass
6	0.0456	0.0456	100.0	Pass
7	0.0896	0.0896	100.0	Pass
8	0.0538	0.0538	100.0	Pass
9	0.1060	0.1060	100.0	Pass
10	0.0714	0.0714	100.0	Pass
11	0.1469	0.1469	100.0	Pass
12	0.0836	0.0836	100.0	Pass
13	0.0597	0.0597	100.0	Pass
14	0.0847	0.0847	100.0	Pass
15	0.0357	0.0357	100.0	Pass
16	0.0223	0.0223	100.0	Pass
17	0.0709	0.0709	100.0	Pass
18	0.0268	0.0268	100.0	Pass
19	0.0305	0.0305	100.0	Pass
20	0.0508	0.0508	100.0	Pass
21	0.0421	0.0421	100.0	Pass
22	0.0056	0.0056	100.0	Pass
23	0.0121	0.0121	100.0	Pass
24	0.0132	0.0132	100.0	Pass
25	0.0286	0.0286	100.0	Pass
26	0.0118	0.0118	100.0	Pass

27	0.0178	0.0178	100.0	Pass
28	0.0149	0.0149	100.0	Pass
29	0.0097	0.0097	100.0	Pass
30	0.0165	0.0165	100.0	Pass
31	0.0191	0.0191	100.0	Pass
Aug1	0.0787	0.0787	100.0	Pass
2	0.0292	0.0292	100.0	Pass
3	0.0120	0.0120	100.0	Pass
4	0.0114	0.0114	100.0	Pass
5	0.0907	0.0907	100.0	Pass
6	0.0626	0.0626	100.0	Pass
7	0.0239	0.0239	100.0	Pass
8	0.0231	0.0231	100.0	Pass
9	0.0023	0.0023	100.0	Pass
10	0.0118	0.0118	100.0	Pass
11	0.0572	0.0572	100.0	Pass
12	0.0494	0.0494	100.0	Pass
13	0.0626	0.0626	100.0	Pass
14	0.0402	0.0402	100.0	Pass
15	0.0371	0.0371	100.0	Pass
16	0.0307	0.0307	100.0	Pass
17	0.0570	0.0570	100.0	Pass
18	0.1098	0.1098	100.0	Pass
19	0.0339	0.0339	100.0	Pass
20	0.0862	0.0862	100.0	Pass
21	0.0816	0.0816	100.0	Pass
22	0.1572	0.1572	100.0	Pass
23	0.1521	0.1521	100.0	Pass
24	0.1396	0.1396	100.0	Pass
25	0.0610	0.0610	100.0	Pass
26	0.1538	0.1538	100.0	Pass
27	0.1600	0.1600	100.0	Pass
28	0.1637	0.1637	100.0	Pass
29	0.1046	0.1046	100.0	Pass
30	0.1596	0.1596	100.0	Pass
31	0.2568	0.2568	100.0	Pass
Sep1	0.1128	0.1128	100.0	Pass
2	0.1090	0.1090	100.0	Pass
3	0.1140	0.1140	100.0	Pass
4	0.1388	0.1388	100.0	Pass
5	0.1203	0.1203	100.0	Pass
6	0.0842	0.0842	100.0	Pass
7	0.1544	0.1544	100.0	Pass
8	0.1031	0.1031	100.0	Pass
9	0.2498	0.2498	100.0	Pass
10	0.0665	0.0665	100.0	Pass
11	0.0533	0.0533	100.0	Pass
12	0.1322	0.1322	100.0	Pass
13	0.2501	0.2501	100.0	Pass
14	0.1674	0.1674	100.0	Pass
15	0.2466	0.2466	100.0	Pass
16	0.2718	0.2718	100.0	Pass
17	0.2900	0.2900	100.0	Pass
18	0.2626	0.2626	100.0	Pass
19	0.2855	0.2855	100.0	Pass
20	0.2179	0.2179	100.0	Pass
21	0.2947	0.2947	100.0	Pass

22	0.2391	0.2391	100.0	Pass
23	0.1877	0.1877	100.0	Pass
24	0.1349	0.1349	100.0	Pass
25	0.1372	0.1372	100.0	Pass
26	0.1385	0.1385	100.0	Pass
27	0.1905	0.1905	100.0	Pass
28	0.1638	0.1638	100.0	Pass
29	0.2131	0.2131	100.0	Pass
30	0.1612	0.1612	100.0	Pass
Oct1	0.1159	0.1159	100.0	Pass
2	0.2682	0.2682	100.0	Pass
3	0.2446	0.2446	100.0	Pass
4	0.3032	0.3032	100.0	Pass
5	0.3241	0.3241	100.0	Pass
6	0.3566	0.3566	100.0	Pass
7	0.4594	0.4594	100.0	Pass
8	0.3848	0.3848	100.0	Pass
9	0.3037	0.3037	100.0	Pass
10	0.2496	0.2496	100.0	Pass
11	0.4439	0.4439	100.0	Pass
12	0.3127	0.3127	100.0	Pass
13	0.4198	0.4198	100.0	Pass
14	0.2594	0.2594	100.0	Pass
15	0.2942	0.2942	100.0	Pass
16	0.3931	0.3931	100.0	Pass
17	0.3627	0.3627	100.0	Pass
18	0.5722	0.5722	100.0	Pass
19	0.7124	0.7124	100.0	Pass
20	0.6207	0.6207	100.0	Pass
21	0.7470	0.7470	100.0	Pass
22	0.4711	0.4711	100.0	Pass
23	0.7283	0.7283	100.0	Pass
24	0.6502	0.6502	100.0	Pass
25	0.5877	0.5877	100.0	Pass
26	0.6983	0.6983	100.0	Pass
27	0.6096	0.6096	100.0	Pass
28	0.5657	0.5657	100.0	Pass
29	0.4856	0.4856	100.0	Pass
30	0.6831	0.6831	100.0	Pass
31	0.5974	0.5974	100.0	Pass
Nov1	0.7422	0.7422	100.0	Pass
2	0.8772	0.8772	100.0	Pass
3	0.7201	0.7201	100.0	Pass
4	0.7141	0.7141	100.0	Pass
5	0.7875	0.7875	100.0	Pass
6	0.6755	0.6755	100.0	Pass
7	0.6109	0.6109	100.0	Pass
8	0.7589	0.7589	100.0	Pass
9	0.8995	0.8995	100.0	Pass
10	0.7877	0.7877	100.0	Pass
11	0.8718	0.8718	100.0	Pass
12	0.8077	0.8077	100.0	Pass
13	0.6340	0.6340	100.0	Pass
14	0.7111	0.7111	100.0	Pass
15	0.7943	0.7943	100.0	Pass
16	0.8281	0.8281	100.0	Pass
17	0.7689	0.7689	100.0	Pass

18	1.1019	1.1019	100.0	Pass
19	1.0107	1.0107	100.0	Pass
20	0.7004	0.7004	100.0	Pass
21	1.0371	1.0371	100.0	Pass
22	1.2078	1.2078	100.0	Pass
23	0.9669	0.9669	100.0	Pass
24	1.0843	1.0843	100.0	Pass
25	0.7548	0.7548	100.0	Pass
26	0.6129	0.6129	100.0	Pass
27	0.7055	0.7055	100.0	Pass
28	0.6751	0.6751	100.0	Pass
29	1.0833	1.0833	100.0	Pass
30	0.9038	0.9038	100.0	Pass
Dec1	0.9828	0.9828	100.0	Pass
2	0.9657	0.9657	100.0	Pass
3	0.6464	0.6464	100.0	Pass
4	0.6881	0.6881	100.0	Pass
5	0.6026	0.6026	100.0	Pass
6	0.5161	0.5161	100.0	Pass
7	0.7131	0.7131	100.0	Pass
8	0.8940	0.8940	100.0	Pass
9	0.9064	0.9064	100.0	Pass
10	0.9829	0.9829	100.0	Pass
11	0.7362	0.7362	100.0	Pass
12	0.7813	0.7813	100.0	Pass
13	1.1222	1.1222	100.0	Pass
14	0.8296	0.8296	100.0	Pass
15	1.0356	1.0356	100.0	Pass
16	0.7393	0.7393	100.0	Pass
17	0.8455	0.8455	100.0	Pass
18	0.7079	0.7079	100.0	Pass
19	0.8046	0.8046	100.0	Pass
20	0.8029	0.8029	100.0	Pass
21	0.8839	0.8839	100.0	Pass
22	0.8663	0.8663	100.0	Pass
23	0.9360	0.9360	100.0	Pass
24	1.0260	1.0260	100.0	Pass
25	0.9205	0.9205	100.0	Pass
26	0.8432	0.8432	100.0	Pass
27	0.5817	0.5817	100.0	Pass
28	0.8606	0.8606	100.0	Pass
29	0.6037	0.6037	100.0	Pass
30	0.6095	0.6095	100.0	Pass
31	0.9891	0.9891	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #5
Total Pervious Area:0.157
Total Impervious Area:0.25

Mitigated Landuse Totals for POC #5
Total Pervious Area:0.157
Total Impervious Area:0.25

Flow Frequency Return Periods for Predeveloped. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.215943
5 year	0.263769
10 year	0.290173
25 year	0.319102
50 year	0.338093
100 year	0.355304

Flow Frequency Return Periods for Mitigated. POC #5

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.215943
5 year	0.263769
10 year	0.290173
25 year	0.319102
50 year	0.338093
100 year	0.355304

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #5

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.243	0.243
1957	0.285	0.285
1958	0.210	0.210
1959	0.229	0.229
1960	0.241	0.241
1961	0.169	0.169
1962	0.318	0.318
1963	0.286	0.286
1964	0.236	0.236
1965	0.242	0.242
1966	0.244	0.244
1967	0.142	0.142
1968	0.228	0.228
1969	0.224	0.224
1970	0.190	0.190
1971	0.322	0.322
1972	0.277	0.277
1973	0.240	0.240
1974	0.245	0.245
1975	0.209	0.209
1976	0.260	0.260
1977	0.180	0.180
1978	0.318	0.318
1979	0.203	0.203
1980	0.182	0.182
1981	0.231	0.231
1982	0.266	0.266
1983	0.211	0.211
1984	0.203	0.203
1985	0.136	0.136

1986	0.242	0.242
1987	0.167	0.167
1988	0.259	0.259
1989	0.210	0.210
1990	0.290	0.290
1991	0.173	0.173
1992	0.132	0.132
1993	0.146	0.146
1994	0.203	0.203
1995	0.172	0.172
1996	0.214	0.214
1997	0.231	0.231
1998	0.139	0.139
1999	0.183	0.183
2000	0.168	0.168
2001	0.151	0.151
2002	0.214	0.214
2003	0.313	0.313
2004	0.284	0.284
2005	0.218	0.218
2006	0.226	0.226
2007	0.270	0.270
2008	0.127	0.127
2009	0.118	0.118

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #5

Rank	Predeveloped	Mitigated
1	0.3220	0.3220
2	0.3179	0.3179
3	0.3177	0.3177
4	0.3129	0.3129
5	0.2896	0.2896
6	0.2858	0.2858
7	0.2847	0.2847
8	0.2835	0.2835
9	0.2774	0.2774
10	0.2704	0.2704
11	0.2662	0.2662
12	0.2597	0.2597
13	0.2589	0.2589
14	0.2454	0.2454
15	0.2441	0.2441
16	0.2427	0.2427
17	0.2423	0.2423
18	0.2415	0.2415
19	0.2410	0.2410
20	0.2401	0.2401
21	0.2360	0.2360
22	0.2313	0.2313
23	0.2307	0.2307
24	0.2294	0.2294
25	0.2281	0.2281
26	0.2256	0.2256
27	0.2237	0.2237
28	0.2181	0.2181

29	0.2144	0.2144
30	0.2135	0.2135
31	0.2112	0.2112
32	0.2105	0.2105
33	0.2097	0.2097
34	0.2093	0.2093
35	0.2035	0.2035
36	0.2027	0.2027
37	0.2027	0.2027
38	0.1900	0.1900
39	0.1827	0.1827
40	0.1821	0.1821
41	0.1804	0.1804
42	0.1728	0.1728
43	0.1717	0.1717
44	0.1691	0.1691
45	0.1679	0.1679
46	0.1667	0.1667
47	0.1515	0.1515
48	0.1455	0.1455
49	0.1424	0.1424
50	0.1393	0.1393
51	0.1355	0.1355
52	0.1321	0.1321
53	0.1269	0.1269
54	0.1176	0.1176

Stream Protection Duration

POC #5

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1080	900	900	100	Pass
0.1103	812	812	100	Pass
0.1126	763	763	100	Pass
0.1149	721	721	100	Pass
0.1173	658	658	100	Pass
0.1196	612	612	100	Pass
0.1219	578	578	100	Pass
0.1242	536	536	100	Pass
0.1266	504	504	100	Pass
0.1289	465	465	100	Pass
0.1312	422	422	100	Pass
0.1335	396	396	100	Pass
0.1359	382	382	100	Pass
0.1382	355	355	100	Pass
0.1405	334	334	100	Pass
0.1428	312	312	100	Pass
0.1452	281	281	100	Pass
0.1475	260	260	100	Pass
0.1498	248	248	100	Pass
0.1521	225	225	100	Pass
0.1545	217	217	100	Pass
0.1568	212	212	100	Pass

0.1591	196	196	100	Pass
0.1614	188	188	100	Pass
0.1638	178	178	100	Pass
0.1661	166	166	100	Pass
0.1684	154	154	100	Pass
0.1707	147	147	100	Pass
0.1731	141	141	100	Pass
0.1754	135	135	100	Pass
0.1777	130	130	100	Pass
0.1800	122	122	100	Pass
0.1824	115	115	100	Pass
0.1847	109	109	100	Pass
0.1870	99	99	100	Pass
0.1893	97	97	100	Pass
0.1917	94	94	100	Pass
0.1940	92	92	100	Pass
0.1963	87	87	100	Pass
0.1986	82	82	100	Pass
0.2009	80	80	100	Pass
0.2033	74	74	100	Pass
0.2056	72	72	100	Pass
0.2079	68	68	100	Pass
0.2102	64	64	100	Pass
0.2126	60	60	100	Pass
0.2149	55	55	100	Pass
0.2172	49	49	100	Pass
0.2195	48	48	100	Pass
0.2219	48	48	100	Pass
0.2242	46	46	100	Pass
0.2265	44	44	100	Pass
0.2288	43	43	100	Pass
0.2312	40	40	100	Pass
0.2335	37	37	100	Pass
0.2358	35	35	100	Pass
0.2381	34	34	100	Pass
0.2405	34	34	100	Pass
0.2428	29	29	100	Pass
0.2451	26	26	100	Pass
0.2474	24	24	100	Pass
0.2498	24	24	100	Pass
0.2521	23	23	100	Pass
0.2544	22	22	100	Pass
0.2567	21	21	100	Pass
0.2591	18	18	100	Pass
0.2614	16	16	100	Pass
0.2637	15	15	100	Pass
0.2660	15	15	100	Pass
0.2684	13	13	100	Pass
0.2707	13	13	100	Pass
0.2730	11	11	100	Pass
0.2753	11	11	100	Pass
0.2777	11	11	100	Pass
0.2800	10	10	100	Pass
0.2823	10	10	100	Pass
0.2846	9	9	100	Pass
0.2870	7	7	100	Pass
0.2893	7	7	100	Pass

0.2916	6	6	100	Pass
0.2939	6	6	100	Pass
0.2963	6	6	100	Pass
0.2986	6	6	100	Pass
0.3009	5	5	100	Pass
0.3032	5	5	100	Pass
0.3056	5	5	100	Pass
0.3079	4	4	100	Pass
0.3102	4	4	100	Pass
0.3125	4	4	100	Pass
0.3148	3	3	100	Pass
0.3172	3	3	100	Pass
0.3195	1	1	100	Pass
0.3218	1	1	100	Pass
0.3241	0	0	100	Pass
0.3265	0	0	0	Pass
0.3288	0	0	0	Pass
0.3311	0	0	0	Pass
0.3334	0	0	0	Pass
0.3358	0	0	0	Pass
0.3381	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #5
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 5

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	14.8554	14.8554	100.0	Pass
Feb	11.4191	11.4191	100.0	Pass
Mar	10.0786	10.0786	100.0	Pass
Apr	5.5139	5.5139	100.0	Pass
May	2.7950	2.7950	100.0	Pass
Jun	1.8040	1.8040	100.0	Pass
Jul	0.8654	0.8654	100.0	Pass
Aug	1.2712	1.2712	100.0	Pass
Sep	3.0332	3.0332	100.0	Pass
Oct	7.7792	7.7792	100.0	Pass
Nov	13.8652	13.8652	100.0	Pass
Dec	14.3335	14.3335	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4743	0.4743	100.0	Pass
2	0.3832	0.3832	100.0	Pass
3	0.4715	0.4715	100.0	Pass
4	0.5433	0.5433	100.0	Pass
5	0.4172	0.4172	100.0	Pass
6	0.5915	0.5915	100.0	Pass
7	0.4828	0.4828	100.0	Pass

8	0.4790	0.4790	100.0	Pass
9	0.5014	0.5014	100.0	Pass
10	0.4962	0.4962	100.0	Pass
11	0.5962	0.5962	100.0	Pass
12	0.4858	0.4858	100.0	Pass
13	0.5911	0.5911	100.0	Pass
14	0.5960	0.5960	100.0	Pass
15	0.5501	0.5501	100.0	Pass
16	0.4656	0.4656	100.0	Pass
17	0.4417	0.4417	100.0	Pass
18	0.3906	0.3906	100.0	Pass
19	0.3819	0.3819	100.0	Pass
20	0.2647	0.2647	100.0	Pass
21	0.4471	0.4471	100.0	Pass
22	0.5587	0.5587	100.0	Pass
23	0.6340	0.6340	100.0	Pass
24	0.4582	0.4582	100.0	Pass
25	0.3893	0.3893	100.0	Pass
26	0.3511	0.3511	100.0	Pass
27	0.4202	0.4202	100.0	Pass
28	0.5287	0.5287	100.0	Pass
29	0.4228	0.4228	100.0	Pass
30	0.4835	0.4835	100.0	Pass
31	0.3131	0.3131	100.0	Pass
Feb1	0.3406	0.3406	100.0	Pass
2	0.3076	0.3076	100.0	Pass
3	0.2812	0.2812	100.0	Pass
4	0.2606	0.2606	100.0	Pass
5	0.4498	0.4498	100.0	Pass
6	0.2566	0.2566	100.0	Pass
7	0.3408	0.3408	100.0	Pass
8	0.2691	0.2691	100.0	Pass
9	0.3095	0.3095	100.0	Pass
10	0.4055	0.4055	100.0	Pass
11	0.5403	0.5403	100.0	Pass
12	0.4438	0.4438	100.0	Pass
13	0.4645	0.4645	100.0	Pass
14	0.6303	0.6303	100.0	Pass
15	0.4920	0.4920	100.0	Pass
16	0.6145	0.6145	100.0	Pass
17	0.5554	0.5554	100.0	Pass
18	0.4567	0.4567	100.0	Pass
19	0.3942	0.3942	100.0	Pass
20	0.3754	0.3754	100.0	Pass
21	0.3079	0.3079	100.0	Pass
22	0.4292	0.4292	100.0	Pass
23	0.4143	0.4143	100.0	Pass
24	0.4547	0.4547	100.0	Pass
25	0.4142	0.4142	100.0	Pass
26	0.4107	0.4107	100.0	Pass
27	0.3627	0.3627	100.0	Pass
28	0.4815	0.4815	100.0	Pass
29	0.3449	0.3449	100.0	Pass
Mar1	0.3366	0.3366	100.0	Pass
2	0.2809	0.2809	100.0	Pass
3	0.3776	0.3776	100.0	Pass
4	0.3990	0.3990	100.0	Pass

5	0.3215	0.3215	100.0	Pass
6	0.4007	0.4007	100.0	Pass
7	0.3881	0.3881	100.0	Pass
8	0.3827	0.3827	100.0	Pass
9	0.3839	0.3839	100.0	Pass
10	0.3406	0.3406	100.0	Pass
11	0.3639	0.3639	100.0	Pass
12	0.3239	0.3239	100.0	Pass
13	0.3858	0.3858	100.0	Pass
14	0.3151	0.3151	100.0	Pass
15	0.2586	0.2586	100.0	Pass
16	0.2445	0.2445	100.0	Pass
17	0.3250	0.3250	100.0	Pass
18	0.2096	0.2096	100.0	Pass
19	0.2939	0.2939	100.0	Pass
20	0.2432	0.2432	100.0	Pass
21	0.3911	0.3911	100.0	Pass
22	0.4427	0.4427	100.0	Pass
23	0.3836	0.3836	100.0	Pass
24	0.2609	0.2609	100.0	Pass
25	0.3672	0.3672	100.0	Pass
26	0.2815	0.2815	100.0	Pass
27	0.2622	0.2622	100.0	Pass
28	0.2937	0.2937	100.0	Pass
29	0.2686	0.2686	100.0	Pass
30	0.2079	0.2079	100.0	Pass
31	0.1673	0.1673	100.0	Pass
Apr1	0.1734	0.1734	100.0	Pass
2	0.1913	0.1913	100.0	Pass
3	0.2532	0.2532	100.0	Pass
4	0.2379	0.2379	100.0	Pass
5	0.2603	0.2603	100.0	Pass
6	0.1491	0.1491	100.0	Pass
7	0.2240	0.2240	100.0	Pass
8	0.2311	0.2311	100.0	Pass
9	0.2038	0.2038	100.0	Pass
10	0.2058	0.2058	100.0	Pass
11	0.2677	0.2677	100.0	Pass
12	0.2395	0.2395	100.0	Pass
13	0.2465	0.2465	100.0	Pass
14	0.2155	0.2155	100.0	Pass
15	0.2298	0.2298	100.0	Pass
16	0.1365	0.1365	100.0	Pass
17	0.1724	0.1724	100.0	Pass
18	0.1958	0.1958	100.0	Pass
19	0.1160	0.1160	100.0	Pass
20	0.1066	0.1066	100.0	Pass
21	0.1689	0.1689	100.0	Pass
22	0.1440	0.1440	100.0	Pass
23	0.1290	0.1290	100.0	Pass
24	0.1051	0.1051	100.0	Pass
25	0.1213	0.1213	100.0	Pass
26	0.2026	0.2026	100.0	Pass
27	0.1622	0.1622	100.0	Pass
28	0.1692	0.1692	100.0	Pass
29	0.0889	0.0889	100.0	Pass
30	0.1071	0.1071	100.0	Pass

May1	0.1598	0.1598	100.0	Pass
2	0.1227	0.1227	100.0	Pass
3	0.1275	0.1275	100.0	Pass
4	0.1039	0.1039	100.0	Pass
5	0.0984	0.0984	100.0	Pass
6	0.0829	0.0829	100.0	Pass
7	0.1071	0.1071	100.0	Pass
8	0.0690	0.0690	100.0	Pass
9	0.0914	0.0914	100.0	Pass
10	0.0740	0.0740	100.0	Pass
11	0.0690	0.0690	100.0	Pass
12	0.0976	0.0976	100.0	Pass
13	0.1049	0.1049	100.0	Pass
14	0.1026	0.1026	100.0	Pass
15	0.0730	0.0730	100.0	Pass
16	0.0892	0.0892	100.0	Pass
17	0.0749	0.0749	100.0	Pass
18	0.1154	0.1154	100.0	Pass
19	0.0651	0.0651	100.0	Pass
20	0.0609	0.0609	100.0	Pass
21	0.0623	0.0623	100.0	Pass
22	0.0744	0.0744	100.0	Pass
23	0.0671	0.0671	100.0	Pass
24	0.0706	0.0706	100.0	Pass
25	0.0599	0.0599	100.0	Pass
26	0.1004	0.1004	100.0	Pass
27	0.0810	0.0810	100.0	Pass
28	0.0864	0.0864	100.0	Pass
29	0.1178	0.1178	100.0	Pass
30	0.0789	0.0789	100.0	Pass
31	0.0856	0.0856	100.0	Pass
Jun1	0.0665	0.0665	100.0	Pass
2	0.1007	0.1007	100.0	Pass
3	0.0960	0.0960	100.0	Pass
4	0.0711	0.0711	100.0	Pass
5	0.1147	0.1147	100.0	Pass
6	0.0482	0.0482	100.0	Pass
7	0.0692	0.0692	100.0	Pass
8	0.0952	0.0952	100.0	Pass
9	0.0728	0.0728	100.0	Pass
10	0.0678	0.0678	100.0	Pass
11	0.0502	0.0502	100.0	Pass
12	0.0588	0.0588	100.0	Pass
13	0.0936	0.0936	100.0	Pass
14	0.0418	0.0418	100.0	Pass
15	0.0777	0.0777	100.0	Pass
16	0.0371	0.0371	100.0	Pass
17	0.0491	0.0491	100.0	Pass
18	0.0353	0.0353	100.0	Pass
19	0.0388	0.0388	100.0	Pass
20	0.0414	0.0414	100.0	Pass
21	0.0425	0.0425	100.0	Pass
22	0.0242	0.0242	100.0	Pass
23	0.1133	0.1133	100.0	Pass
24	0.0356	0.0356	100.0	Pass
25	0.0526	0.0526	100.0	Pass
26	0.0317	0.0317	100.0	Pass

27	0.0277	0.0277	100.0	Pass
28	0.0283	0.0283	100.0	Pass
29	0.0367	0.0367	100.0	Pass
30	0.0808	0.0808	100.0	Pass
Jul1	0.0225	0.0225	100.0	Pass
2	0.0182	0.0182	100.0	Pass
3	0.0189	0.0189	100.0	Pass
4	0.0441	0.0441	100.0	Pass
5	0.0335	0.0335	100.0	Pass
6	0.0256	0.0256	100.0	Pass
7	0.0503	0.0503	100.0	Pass
8	0.0303	0.0303	100.0	Pass
9	0.0595	0.0595	100.0	Pass
10	0.0402	0.0402	100.0	Pass
11	0.0827	0.0827	100.0	Pass
12	0.0474	0.0474	100.0	Pass
13	0.0338	0.0338	100.0	Pass
14	0.0476	0.0476	100.0	Pass
15	0.0201	0.0201	100.0	Pass
16	0.0126	0.0126	100.0	Pass
17	0.0398	0.0398	100.0	Pass
18	0.0152	0.0152	100.0	Pass
19	0.0172	0.0172	100.0	Pass
20	0.0285	0.0285	100.0	Pass
21	0.0237	0.0237	100.0	Pass
22	0.0032	0.0032	100.0	Pass
23	0.0068	0.0068	100.0	Pass
24	0.0074	0.0074	100.0	Pass
25	0.0160	0.0160	100.0	Pass
26	0.0066	0.0066	100.0	Pass
27	0.0100	0.0100	100.0	Pass
28	0.0083	0.0083	100.0	Pass
29	0.0055	0.0055	100.0	Pass
30	0.0092	0.0092	100.0	Pass
31	0.0107	0.0107	100.0	Pass
Aug1	0.0441	0.0441	100.0	Pass
2	0.0165	0.0165	100.0	Pass
3	0.0068	0.0068	100.0	Pass
4	0.0064	0.0064	100.0	Pass
5	0.0508	0.0508	100.0	Pass
6	0.0352	0.0352	100.0	Pass
7	0.0135	0.0135	100.0	Pass
8	0.0130	0.0130	100.0	Pass
9	0.0013	0.0013	100.0	Pass
10	0.0066	0.0066	100.0	Pass
11	0.0320	0.0320	100.0	Pass
12	0.0277	0.0277	100.0	Pass
13	0.0351	0.0351	100.0	Pass
14	0.0226	0.0226	100.0	Pass
15	0.0209	0.0209	100.0	Pass
16	0.0173	0.0173	100.0	Pass
17	0.0319	0.0319	100.0	Pass
18	0.0615	0.0615	100.0	Pass
19	0.0191	0.0191	100.0	Pass
20	0.0483	0.0483	100.0	Pass
21	0.0458	0.0458	100.0	Pass
22	0.0882	0.0882	100.0	Pass

23	0.0855	0.0855	100.0	Pass
24	0.0788	0.0788	100.0	Pass
25	0.0346	0.0346	100.0	Pass
26	0.0864	0.0864	100.0	Pass
27	0.0900	0.0900	100.0	Pass
28	0.0922	0.0922	100.0	Pass
29	0.0590	0.0590	100.0	Pass
30	0.0896	0.0896	100.0	Pass
31	0.1443	0.1443	100.0	Pass
Sep1	0.0639	0.0639	100.0	Pass
2	0.0616	0.0616	100.0	Pass
3	0.0642	0.0642	100.0	Pass
4	0.0780	0.0780	100.0	Pass
5	0.0677	0.0677	100.0	Pass
6	0.0475	0.0475	100.0	Pass
7	0.0866	0.0866	100.0	Pass
8	0.0581	0.0581	100.0	Pass
9	0.1402	0.1402	100.0	Pass
10	0.0376	0.0376	100.0	Pass
11	0.0301	0.0301	100.0	Pass
12	0.0742	0.0742	100.0	Pass
13	0.1404	0.1404	100.0	Pass
14	0.0943	0.0943	100.0	Pass
15	0.1387	0.1387	100.0	Pass
16	0.1532	0.1532	100.0	Pass
17	0.1632	0.1632	100.0	Pass
18	0.1478	0.1478	100.0	Pass
19	0.1609	0.1609	100.0	Pass
20	0.1231	0.1231	100.0	Pass
21	0.1663	0.1663	100.0	Pass
22	0.1350	0.1350	100.0	Pass
23	0.1060	0.1060	100.0	Pass
24	0.0762	0.0762	100.0	Pass
25	0.0773	0.0773	100.0	Pass
26	0.0780	0.0780	100.0	Pass
27	0.1073	0.1073	100.0	Pass
28	0.0922	0.0922	100.0	Pass
29	0.1198	0.1198	100.0	Pass
30	0.0909	0.0909	100.0	Pass
Oct1	0.0654	0.0654	100.0	Pass
2	0.1506	0.1506	100.0	Pass
3	0.1375	0.1375	100.0	Pass
4	0.1706	0.1706	100.0	Pass
5	0.1825	0.1825	100.0	Pass
6	0.2007	0.2007	100.0	Pass
7	0.2587	0.2587	100.0	Pass
8	0.2170	0.2170	100.0	Pass
9	0.1715	0.1715	100.0	Pass
10	0.1409	0.1409	100.0	Pass
11	0.2497	0.2497	100.0	Pass
12	0.1764	0.1764	100.0	Pass
13	0.2363	0.2363	100.0	Pass
14	0.1467	0.1467	100.0	Pass
15	0.1660	0.1660	100.0	Pass
16	0.2217	0.2217	100.0	Pass
17	0.2047	0.2047	100.0	Pass
18	0.3226	0.3226	100.0	Pass

19	0.4018	0.4018	100.0	Pass
20	0.3503	0.3503	100.0	Pass
21	0.4215	0.4215	100.0	Pass
22	0.2668	0.2668	100.0	Pass
23	0.4109	0.4109	100.0	Pass
24	0.3673	0.3673	100.0	Pass
25	0.3321	0.3321	100.0	Pass
26	0.3942	0.3942	100.0	Pass
27	0.3446	0.3446	100.0	Pass
28	0.3198	0.3198	100.0	Pass
29	0.2747	0.2747	100.0	Pass
30	0.3854	0.3854	100.0	Pass
31	0.3377	0.3377	100.0	Pass
Nov1	0.4192	0.4192	100.0	Pass
2	0.4948	0.4948	100.0	Pass
3	0.4075	0.4075	100.0	Pass
4	0.4036	0.4036	100.0	Pass
5	0.4450	0.4450	100.0	Pass
6	0.3822	0.3822	100.0	Pass
7	0.3456	0.3456	100.0	Pass
8	0.4285	0.4285	100.0	Pass
9	0.5079	0.5079	100.0	Pass
10	0.4453	0.4453	100.0	Pass
11	0.4926	0.4926	100.0	Pass
12	0.4564	0.4564	100.0	Pass
13	0.3592	0.3592	100.0	Pass
14	0.4020	0.4020	100.0	Pass
15	0.4488	0.4488	100.0	Pass
16	0.4679	0.4679	100.0	Pass
17	0.4348	0.4348	100.0	Pass
18	0.6222	0.6222	100.0	Pass
19	0.5715	0.5715	100.0	Pass
20	0.3970	0.3970	100.0	Pass
21	0.5860	0.5860	100.0	Pass
22	0.6819	0.6819	100.0	Pass
23	0.5474	0.5474	100.0	Pass
24	0.6131	0.6131	100.0	Pass
25	0.4281	0.4281	100.0	Pass
26	0.3476	0.3476	100.0	Pass
27	0.3989	0.3989	100.0	Pass
28	0.3818	0.3818	100.0	Pass
29	0.6115	0.6115	100.0	Pass
30	0.5114	0.5114	100.0	Pass
Dec1	0.5556	0.5556	100.0	Pass
2	0.5464	0.5464	100.0	Pass
3	0.3666	0.3666	100.0	Pass
4	0.3893	0.3893	100.0	Pass
5	0.3414	0.3414	100.0	Pass
6	0.2922	0.2922	100.0	Pass
7	0.4027	0.4027	100.0	Pass
8	0.5048	0.5048	100.0	Pass
9	0.5124	0.5124	100.0	Pass
10	0.5558	0.5558	100.0	Pass
11	0.4169	0.4169	100.0	Pass
12	0.4420	0.4420	100.0	Pass
13	0.6336	0.6336	100.0	Pass
14	0.4700	0.4700	100.0	Pass

15	0.5852	0.5852	100.0	Pass
16	0.4191	0.4191	100.0	Pass
17	0.4782	0.4782	100.0	Pass
18	0.4008	0.4008	100.0	Pass
19	0.4547	0.4547	100.0	Pass
20	0.4542	0.4542	100.0	Pass
21	0.5000	0.5000	100.0	Pass
22	0.4900	0.4900	100.0	Pass
23	0.5292	0.5292	100.0	Pass
24	0.5798	0.5798	100.0	Pass
25	0.5211	0.5211	100.0	Pass
26	0.4775	0.4775	100.0	Pass
27	0.3299	0.3299	100.0	Pass
28	0.4863	0.4863	100.0	Pass
29	0.3423	0.3423	100.0	Pass
30	0.3449	0.3449	100.0	Pass
31	0.5585	0.5585	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #6
Total Pervious Area:0.068
Total Impervious Area:0.185

Mitigated Landuse Totals for POC #6
Total Pervious Area:0.068
Total Impervious Area:0.185

Flow Frequency Return Periods for Predeveloped. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.143972
5 year	0.173455
10 year	0.18957
25 year	0.207112
50 year	0.218567
100 year	0.22891

Flow Frequency Return Periods for Mitigated. POC #6

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.143972
5 year	0.173455
10 year	0.18957
25 year	0.207112
50 year	0.218567
100 year	0.22891

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #6
Year Predeveloped Mitigated

1956	0.157	0.157
1957	0.189	0.189
1958	0.142	0.142
1959	0.150	0.150
1960	0.156	0.156
1961	0.117	0.117
1962	0.206	0.206
1963	0.186	0.186
1964	0.158	0.158
1965	0.159	0.159
1966	0.159	0.159
1967	0.097	0.097
1968	0.150	0.150
1969	0.145	0.145
1970	0.130	0.130
1971	0.209	0.209
1972	0.179	0.179
1973	0.160	0.160
1974	0.159	0.159
1975	0.138	0.138
1976	0.170	0.170
1977	0.121	0.121
1978	0.211	0.211
1979	0.134	0.134
1980	0.122	0.122
1981	0.154	0.154
1982	0.178	0.178
1983	0.141	0.141
1984	0.134	0.134
1985	0.095	0.095
1986	0.160	0.160
1987	0.111	0.111
1988	0.171	0.171
1989	0.140	0.140
1990	0.188	0.188
1991	0.114	0.114
1992	0.091	0.091
1993	0.100	0.100
1994	0.135	0.135
1995	0.122	0.122
1996	0.151	0.151
1997	0.155	0.155
1998	0.095	0.095
1999	0.122	0.122
2000	0.112	0.112
2001	0.105	0.105
2002	0.156	0.156
2003	0.202	0.202
2004	0.185	0.185
2005	0.144	0.144
2006	0.148	0.148
2007	0.176	0.176
2008	0.087	0.087
2009	0.082	0.082

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #6

Rank	Predeveloped	Mitigated
1	0.2106	0.2106
2	0.2095	0.2095
3	0.2056	0.2056
4	0.2022	0.2022
5	0.1885	0.1885
6	0.1883	0.1883
7	0.1863	0.1863
8	0.1854	0.1854
9	0.1788	0.1788
10	0.1780	0.1780
11	0.1762	0.1762
12	0.1705	0.1705
13	0.1703	0.1703
14	0.1599	0.1599
15	0.1597	0.1597
16	0.1590	0.1590
17	0.1590	0.1590
18	0.1585	0.1585
19	0.1576	0.1576
20	0.1571	0.1571
21	0.1563	0.1563
22	0.1559	0.1559
23	0.1550	0.1550
24	0.1544	0.1544
25	0.1510	0.1510
26	0.1500	0.1500
27	0.1497	0.1497
28	0.1483	0.1483
29	0.1450	0.1450
30	0.1445	0.1445
31	0.1419	0.1419
32	0.1408	0.1408
33	0.1399	0.1399
34	0.1383	0.1383
35	0.1351	0.1351
36	0.1339	0.1339
37	0.1336	0.1336
38	0.1297	0.1297
39	0.1224	0.1224
40	0.1224	0.1224
41	0.1215	0.1215
42	0.1207	0.1207
43	0.1173	0.1173
44	0.1141	0.1141
45	0.1120	0.1120
46	0.1109	0.1109
47	0.1049	0.1049
48	0.1005	0.1005
49	0.0967	0.0967
50	0.0954	0.0954
51	0.0950	0.0950
52	0.0908	0.0908
53	0.0872	0.0872
54	0.0818	0.0818

Stream Protection Duration

POC #6

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0720	988	988	100	Pass
0.0735	909	909	100	Pass
0.0749	837	837	100	Pass
0.0764	788	788	100	Pass
0.0779	731	731	100	Pass
0.0794	673	673	100	Pass
0.0809	620	620	100	Pass
0.0824	579	579	100	Pass
0.0838	549	549	100	Pass
0.0853	504	504	100	Pass
0.0868	470	470	100	Pass
0.0883	437	437	100	Pass
0.0898	409	409	100	Pass
0.0912	386	386	100	Pass
0.0927	358	358	100	Pass
0.0942	336	336	100	Pass
0.0957	313	313	100	Pass
0.0972	295	295	100	Pass
0.0986	274	274	100	Pass
0.1001	256	256	100	Pass
0.1016	239	239	100	Pass
0.1031	228	228	100	Pass
0.1046	214	214	100	Pass
0.1060	204	204	100	Pass
0.1075	192	192	100	Pass
0.1090	180	180	100	Pass
0.1105	173	173	100	Pass
0.1120	163	163	100	Pass
0.1134	155	155	100	Pass
0.1149	145	145	100	Pass
0.1164	139	139	100	Pass
0.1179	133	133	100	Pass
0.1194	128	128	100	Pass
0.1208	119	119	100	Pass
0.1223	109	109	100	Pass
0.1238	101	101	100	Pass
0.1253	98	98	100	Pass
0.1268	93	93	100	Pass
0.1282	91	91	100	Pass
0.1297	89	89	100	Pass
0.1312	84	84	100	Pass
0.1327	80	80	100	Pass
0.1342	76	76	100	Pass
0.1357	72	72	100	Pass
0.1371	70	70	100	Pass
0.1386	66	66	100	Pass
0.1401	61	61	100	Pass
0.1416	54	54	100	Pass
0.1431	52	52	100	Pass

0.1445	50	50	100	Pass
0.1460	48	48	100	Pass
0.1475	47	47	100	Pass
0.1490	45	45	100	Pass
0.1505	43	43	100	Pass
0.1519	41	41	100	Pass
0.1534	40	40	100	Pass
0.1549	37	37	100	Pass
0.1564	35	35	100	Pass
0.1579	31	31	100	Pass
0.1593	28	28	100	Pass
0.1608	24	24	100	Pass
0.1623	24	24	100	Pass
0.1638	24	24	100	Pass
0.1653	23	23	100	Pass
0.1667	22	22	100	Pass
0.1682	20	20	100	Pass
0.1697	20	20	100	Pass
0.1712	16	16	100	Pass
0.1727	15	15	100	Pass
0.1741	15	15	100	Pass
0.1756	15	15	100	Pass
0.1771	13	13	100	Pass
0.1786	12	12	100	Pass
0.1801	10	10	100	Pass
0.1816	10	10	100	Pass
0.1830	10	10	100	Pass
0.1845	10	10	100	Pass
0.1860	9	9	100	Pass
0.1875	8	8	100	Pass
0.1890	6	6	100	Pass
0.1904	6	6	100	Pass
0.1919	6	6	100	Pass
0.1934	5	5	100	Pass
0.1949	5	5	100	Pass
0.1964	5	5	100	Pass
0.1978	5	5	100	Pass
0.1993	4	4	100	Pass
0.2008	4	4	100	Pass
0.2023	3	3	100	Pass
0.2038	3	3	100	Pass
0.2052	3	3	100	Pass
0.2067	2	2	100	Pass
0.2082	2	2	100	Pass
0.2097	1	1	100	Pass
0.2112	0	0	100	Pass
0.2126	0	0	0	Pass
0.2141	0	0	0	Pass
0.2156	0	0	0	Pass
0.2171	0	0	0	Pass
0.2186	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #6
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 6

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	9.4942	9.4942	100.0	Pass
Feb	7.2789	7.2789	100.0	Pass
Mar	6.4365	6.4365	100.0	Pass
Apr	3.5570	3.5570	100.0	Pass
May	1.8605	1.8605	100.0	Pass
Jun	1.2200	1.2200	100.0	Pass
Jul	0.5960	0.5960	100.0	Pass
Aug	0.8863	0.8863	100.0	Pass
Sep	2.0600	2.0600	100.0	Pass
Oct	5.1513	5.1513	100.0	Pass
Nov	8.9476	8.9476	100.0	Pass
Dec	9.1602	9.1602	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3040	0.3040	100.0	Pass
2	0.2414	0.2414	100.0	Pass
3	0.3038	0.3038	100.0	Pass
4	0.3544	0.3544	100.0	Pass
5	0.2627	0.2627	100.0	Pass
6	0.3868	0.3868	100.0	Pass
7	0.3051	0.3051	100.0	Pass
8	0.3052	0.3052	100.0	Pass
9	0.3235	0.3235	100.0	Pass
10	0.3162	0.3162	100.0	Pass
11	0.3845	0.3845	100.0	Pass
12	0.3060	0.3060	100.0	Pass
13	0.3808	0.3808	100.0	Pass
14	0.3813	0.3813	100.0	Pass
15	0.3493	0.3493	100.0	Pass
16	0.2898	0.2898	100.0	Pass
17	0.2767	0.2767	100.0	Pass
18	0.2444	0.2444	100.0	Pass
19	0.2422	0.2422	100.0	Pass
20	0.1622	0.1622	100.0	Pass
21	0.2974	0.2974	100.0	Pass
22	0.3641	0.3641	100.0	Pass
23	0.4094	0.4094	100.0	Pass
24	0.2854	0.2854	100.0	Pass
25	0.2420	0.2420	100.0	Pass
26	0.2185	0.2185	100.0	Pass
27	0.2706	0.2706	100.0	Pass
28	0.3431	0.3431	100.0	Pass
29	0.2666	0.2666	100.0	Pass
30	0.3114	0.3114	100.0	Pass
31	0.1923	0.1923	100.0	Pass
Feb1	0.2154	0.2154	100.0	Pass
2	0.1959	0.1959	100.0	Pass
3	0.1778	0.1778	100.0	Pass

4	0.1647	0.1647	100.0	Pass
5	0.2965	0.2965	100.0	Pass
6	0.1567	0.1567	100.0	Pass
7	0.2205	0.2205	100.0	Pass
8	0.1698	0.1698	100.0	Pass
9	0.2012	0.2012	100.0	Pass
10	0.2663	0.2663	100.0	Pass
11	0.3522	0.3522	100.0	Pass
12	0.2804	0.2804	100.0	Pass
13	0.2984	0.2984	100.0	Pass
14	0.4132	0.4132	100.0	Pass
15	0.3085	0.3085	100.0	Pass
16	0.3973	0.3973	100.0	Pass
17	0.3530	0.3530	100.0	Pass
18	0.2827	0.2827	100.0	Pass
19	0.2452	0.2452	100.0	Pass
20	0.2353	0.2353	100.0	Pass
21	0.1929	0.1929	100.0	Pass
22	0.2775	0.2775	100.0	Pass
23	0.2652	0.2652	100.0	Pass
24	0.2918	0.2918	100.0	Pass
25	0.2625	0.2625	100.0	Pass
26	0.2593	0.2593	100.0	Pass
27	0.2277	0.2277	100.0	Pass
28	0.3062	0.3062	100.0	Pass
29	0.2183	0.2183	100.0	Pass
Mar1	0.2143	0.2143	100.0	Pass
2	0.1764	0.1764	100.0	Pass
3	0.2450	0.2450	100.0	Pass
4	0.2573	0.2573	100.0	Pass
5	0.2040	0.2040	100.0	Pass
6	0.2567	0.2567	100.0	Pass
7	0.2507	0.2507	100.0	Pass
8	0.2446	0.2446	100.0	Pass
9	0.2453	0.2453	100.0	Pass
10	0.2151	0.2151	100.0	Pass
11	0.2323	0.2323	100.0	Pass
12	0.2059	0.2059	100.0	Pass
13	0.2483	0.2483	100.0	Pass
14	0.1988	0.1988	100.0	Pass
15	0.1621	0.1621	100.0	Pass
16	0.1553	0.1553	100.0	Pass
17	0.2094	0.2094	100.0	Pass
18	0.1302	0.1302	100.0	Pass
19	0.1912	0.1912	100.0	Pass
20	0.1553	0.1553	100.0	Pass
21	0.2579	0.2579	100.0	Pass
22	0.2900	0.2900	100.0	Pass
23	0.2435	0.2435	100.0	Pass
24	0.1592	0.1592	100.0	Pass
25	0.2380	0.2380	100.0	Pass
26	0.1762	0.1762	100.0	Pass
27	0.1672	0.1672	100.0	Pass
28	0.1874	0.1874	100.0	Pass
29	0.1716	0.1716	100.0	Pass
30	0.1297	0.1297	100.0	Pass
31	0.1044	0.1044	100.0	Pass

Apr1	0.1107	0.1107	100.0	Pass
2	0.1238	0.1238	100.0	Pass
3	0.1681	0.1681	100.0	Pass
4	0.1540	0.1540	100.0	Pass
5	0.1667	0.1667	100.0	Pass
6	0.0913	0.0913	100.0	Pass
7	0.1470	0.1470	100.0	Pass
8	0.1492	0.1492	100.0	Pass
9	0.1320	0.1320	100.0	Pass
10	0.1315	0.1315	100.0	Pass
11	0.1777	0.1777	100.0	Pass
12	0.1542	0.1542	100.0	Pass
13	0.1603	0.1603	100.0	Pass
14	0.1375	0.1375	100.0	Pass
15	0.1472	0.1472	100.0	Pass
16	0.0832	0.0832	100.0	Pass
17	0.1119	0.1119	100.0	Pass
18	0.1282	0.1282	100.0	Pass
19	0.0711	0.0711	100.0	Pass
20	0.0678	0.0678	100.0	Pass
21	0.1127	0.1127	100.0	Pass
22	0.0944	0.0944	100.0	Pass
23	0.0830	0.0830	100.0	Pass
24	0.0671	0.0671	100.0	Pass
25	0.0800	0.0800	100.0	Pass
26	0.1342	0.1342	100.0	Pass
27	0.1047	0.1047	100.0	Pass
28	0.1094	0.1094	100.0	Pass
29	0.0540	0.0540	100.0	Pass
30	0.0702	0.0702	100.0	Pass
May1	0.1079	0.1079	100.0	Pass
2	0.0793	0.0793	100.0	Pass
3	0.0842	0.0842	100.0	Pass
4	0.0670	0.0670	100.0	Pass
5	0.0642	0.0642	100.0	Pass
6	0.0542	0.0542	100.0	Pass
7	0.0715	0.0715	100.0	Pass
8	0.0442	0.0442	100.0	Pass
9	0.0613	0.0613	100.0	Pass
10	0.0491	0.0491	100.0	Pass
11	0.0461	0.0461	100.0	Pass
12	0.0658	0.0658	100.0	Pass
13	0.0707	0.0707	100.0	Pass
14	0.0692	0.0692	100.0	Pass
15	0.0468	0.0468	100.0	Pass
16	0.0601	0.0601	100.0	Pass
17	0.0494	0.0494	100.0	Pass
18	0.0794	0.0794	100.0	Pass
19	0.0422	0.0422	100.0	Pass
20	0.0408	0.0408	100.0	Pass
21	0.0417	0.0417	100.0	Pass
22	0.0510	0.0510	100.0	Pass
23	0.0450	0.0450	100.0	Pass
24	0.0473	0.0473	100.0	Pass
25	0.0397	0.0397	100.0	Pass
26	0.0686	0.0686	100.0	Pass
27	0.0540	0.0540	100.0	Pass

28	0.0584	0.0584	100.0	Pass
29	0.0796	0.0796	100.0	Pass
30	0.0518	0.0518	100.0	Pass
31	0.0564	0.0564	100.0	Pass
Jun1	0.0426	0.0426	100.0	Pass
2	0.0693	0.0693	100.0	Pass
3	0.0656	0.0656	100.0	Pass
4	0.0473	0.0473	100.0	Pass
5	0.0788	0.0788	100.0	Pass
6	0.0302	0.0302	100.0	Pass
7	0.0460	0.0460	100.0	Pass
8	0.0646	0.0646	100.0	Pass
9	0.0486	0.0486	100.0	Pass
10	0.0460	0.0460	100.0	Pass
11	0.0334	0.0334	100.0	Pass
12	0.0405	0.0405	100.0	Pass
13	0.0647	0.0647	100.0	Pass
14	0.0269	0.0269	100.0	Pass
15	0.0531	0.0531	100.0	Pass
16	0.0236	0.0236	100.0	Pass
17	0.0331	0.0331	100.0	Pass
18	0.0226	0.0226	100.0	Pass
19	0.0266	0.0266	100.0	Pass
20	0.0289	0.0289	100.0	Pass
21	0.0291	0.0291	100.0	Pass
22	0.0159	0.0159	100.0	Pass
23	0.0809	0.0809	100.0	Pass
24	0.0222	0.0222	100.0	Pass
25	0.0361	0.0361	100.0	Pass
26	0.0215	0.0215	100.0	Pass
27	0.0193	0.0193	100.0	Pass
28	0.0199	0.0199	100.0	Pass
29	0.0262	0.0262	100.0	Pass
30	0.0571	0.0571	100.0	Pass
Jul1	0.0144	0.0144	100.0	Pass
2	0.0122	0.0122	100.0	Pass
3	0.0133	0.0133	100.0	Pass
4	0.0321	0.0321	100.0	Pass
5	0.0241	0.0241	100.0	Pass
6	0.0183	0.0183	100.0	Pass
7	0.0356	0.0356	100.0	Pass
8	0.0203	0.0203	100.0	Pass
9	0.0421	0.0421	100.0	Pass
10	0.0275	0.0275	100.0	Pass
11	0.0566	0.0566	100.0	Pass
12	0.0294	0.0294	100.0	Pass
13	0.0215	0.0215	100.0	Pass
14	0.0327	0.0327	100.0	Pass
15	0.0132	0.0132	100.0	Pass
16	0.0083	0.0083	100.0	Pass
17	0.0280	0.0280	100.0	Pass
18	0.0096	0.0096	100.0	Pass
19	0.0116	0.0116	100.0	Pass
20	0.0202	0.0202	100.0	Pass
21	0.0162	0.0162	100.0	Pass
22	0.0016	0.0016	100.0	Pass
23	0.0046	0.0046	100.0	Pass

24	0.0053	0.0053	100.0	Pass
25	0.0117	0.0117	100.0	Pass
26	0.0048	0.0048	100.0	Pass
27	0.0073	0.0073	100.0	Pass
28	0.0060	0.0060	100.0	Pass
29	0.0039	0.0039	100.0	Pass
30	0.0067	0.0067	100.0	Pass
31	0.0078	0.0078	100.0	Pass
Aug1	0.0321	0.0321	100.0	Pass
2	0.0113	0.0113	100.0	Pass
3	0.0043	0.0043	100.0	Pass
4	0.0043	0.0043	100.0	Pass
5	0.0366	0.0366	100.0	Pass
6	0.0246	0.0246	100.0	Pass
7	0.0089	0.0089	100.0	Pass
8	0.0090	0.0090	100.0	Pass
9	0.0007	0.0007	100.0	Pass
10	0.0047	0.0047	100.0	Pass
11	0.0234	0.0234	100.0	Pass
12	0.0200	0.0200	100.0	Pass
13	0.0253	0.0253	100.0	Pass
14	0.0156	0.0156	100.0	Pass
15	0.0141	0.0141	100.0	Pass
16	0.0120	0.0120	100.0	Pass
17	0.0232	0.0232	100.0	Pass
18	0.0448	0.0448	100.0	Pass
19	0.0127	0.0127	100.0	Pass
20	0.0348	0.0348	100.0	Pass
21	0.0322	0.0322	100.0	Pass
22	0.0627	0.0627	100.0	Pass
23	0.0593	0.0593	100.0	Pass
24	0.0521	0.0521	100.0	Pass
25	0.0214	0.0214	100.0	Pass
26	0.0607	0.0607	100.0	Pass
27	0.0622	0.0622	100.0	Pass
28	0.0627	0.0627	100.0	Pass
29	0.0396	0.0396	100.0	Pass
30	0.0630	0.0630	100.0	Pass
31	0.1005	0.1005	100.0	Pass
Sep1	0.0402	0.0402	100.0	Pass
2	0.0405	0.0405	100.0	Pass
3	0.0434	0.0434	100.0	Pass
4	0.0540	0.0540	100.0	Pass
5	0.0464	0.0464	100.0	Pass
6	0.0320	0.0320	100.0	Pass
7	0.0614	0.0614	100.0	Pass
8	0.0395	0.0395	100.0	Pass
9	0.0997	0.0997	100.0	Pass
10	0.0242	0.0242	100.0	Pass
11	0.0202	0.0202	100.0	Pass
12	0.0527	0.0527	100.0	Pass
13	0.0991	0.0991	100.0	Pass
14	0.0640	0.0640	100.0	Pass
15	0.0962	0.0962	100.0	Pass
16	0.1032	0.1032	100.0	Pass
17	0.1117	0.1117	100.0	Pass
18	0.1007	0.1007	100.0	Pass

19	0.1083	0.1083	100.0	Pass
20	0.0801	0.0801	100.0	Pass
21	0.1102	0.1102	100.0	Pass
22	0.0886	0.0886	100.0	Pass
23	0.0698	0.0698	100.0	Pass
24	0.0501	0.0501	100.0	Pass
25	0.0525	0.0525	100.0	Pass
26	0.0530	0.0530	100.0	Pass
27	0.0725	0.0725	100.0	Pass
28	0.0628	0.0628	100.0	Pass
29	0.0828	0.0828	100.0	Pass
30	0.0606	0.0606	100.0	Pass
Oct1	0.0428	0.0428	100.0	Pass
2	0.1059	0.1059	100.0	Pass
3	0.0951	0.0951	100.0	Pass
4	0.1167	0.1167	100.0	Pass
5	0.1242	0.1242	100.0	Pass
6	0.1371	0.1371	100.0	Pass
7	0.1759	0.1759	100.0	Pass
8	0.1443	0.1443	100.0	Pass
9	0.1126	0.1126	100.0	Pass
10	0.0921	0.0921	100.0	Pass
11	0.1716	0.1716	100.0	Pass
12	0.1169	0.1169	100.0	Pass
13	0.1613	0.1613	100.0	Pass
14	0.0942	0.0942	100.0	Pass
15	0.1099	0.1099	100.0	Pass
16	0.1479	0.1479	100.0	Pass
17	0.1355	0.1355	100.0	Pass
18	0.2163	0.2163	100.0	Pass
19	0.2673	0.2673	100.0	Pass
20	0.2314	0.2314	100.0	Pass
21	0.2792	0.2792	100.0	Pass
22	0.1680	0.1680	100.0	Pass
23	0.2719	0.2719	100.0	Pass
24	0.2397	0.2397	100.0	Pass
25	0.2152	0.2152	100.0	Pass
26	0.2591	0.2591	100.0	Pass
27	0.2220	0.2220	100.0	Pass
28	0.2064	0.2064	100.0	Pass
29	0.1753	0.1753	100.0	Pass
30	0.2555	0.2555	100.0	Pass
31	0.2179	0.2179	100.0	Pass
Nov1	0.2736	0.2736	100.0	Pass
2	0.3286	0.3286	100.0	Pass
3	0.2598	0.2598	100.0	Pass
4	0.2616	0.2616	100.0	Pass
5	0.2890	0.2890	100.0	Pass
6	0.2435	0.2435	100.0	Pass
7	0.2205	0.2205	100.0	Pass
8	0.2814	0.2814	100.0	Pass
9	0.3328	0.3328	100.0	Pass
10	0.2870	0.2870	100.0	Pass
11	0.3199	0.3199	100.0	Pass
12	0.2960	0.2960	100.0	Pass
13	0.2249	0.2249	100.0	Pass
14	0.2599	0.2599	100.0	Pass

15	0.2915	0.2915	100.0	Pass
16	0.3043	0.3043	100.0	Pass
17	0.2795	0.2795	100.0	Pass
18	0.4079	0.4079	100.0	Pass
19	0.3675	0.3675	100.0	Pass
20	0.2467	0.2467	100.0	Pass
21	0.3810	0.3810	100.0	Pass
22	0.4483	0.4483	100.0	Pass
23	0.3466	0.3466	100.0	Pass
24	0.3942	0.3942	100.0	Pass
25	0.2644	0.2644	100.0	Pass
26	0.2148	0.2148	100.0	Pass
27	0.2568	0.2568	100.0	Pass
28	0.2452	0.2452	100.0	Pass
29	0.4031	0.4031	100.0	Pass
30	0.3259	0.3259	100.0	Pass
Dec1	0.3583	0.3583	100.0	Pass
2	0.3485	0.3485	100.0	Pass
3	0.2263	0.2263	100.0	Pass
4	0.2480	0.2480	100.0	Pass
5	0.2142	0.2142	100.0	Pass
6	0.1851	0.1851	100.0	Pass
7	0.2636	0.2636	100.0	Pass
8	0.3309	0.3309	100.0	Pass
9	0.3304	0.3304	100.0	Pass
10	0.3570	0.3570	100.0	Pass
11	0.2625	0.2625	100.0	Pass
12	0.2826	0.2826	100.0	Pass
13	0.4163	0.4163	100.0	Pass
14	0.2941	0.2941	100.0	Pass
15	0.3796	0.3796	100.0	Pass
16	0.2601	0.2601	100.0	Pass
17	0.3065	0.3065	100.0	Pass
18	0.2533	0.2533	100.0	Pass
19	0.2947	0.2947	100.0	Pass
20	0.2903	0.2903	100.0	Pass
21	0.3195	0.3195	100.0	Pass
22	0.3141	0.3141	100.0	Pass
23	0.3407	0.3407	100.0	Pass
24	0.3763	0.3763	100.0	Pass
25	0.3296	0.3296	100.0	Pass
26	0.3009	0.3009	100.0	Pass
27	0.2037	0.2037	100.0	Pass
28	0.3159	0.3159	100.0	Pass
29	0.2122	0.2122	100.0	Pass
30	0.2193	0.2193	100.0	Pass
31	0.3660	0.3660	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #7
Total Pervious Area:0.104

Total Impervious Area:0.423

Mitigated Landuse Totals for POC #7

Total Pervious Area:0.104

Total Impervious Area:0.423

Flow Frequency Return Periods for Predeveloped. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.312329
5 year	0.373604
10 year	0.406924
25 year	0.443068
50 year	0.466607
100 year	0.487822

Flow Frequency Return Periods for Mitigated. POC #7

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.312329
5 year	0.373604
10 year	0.406924
25 year	0.443068
50 year	0.466607
100 year	0.487822

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #7

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.335	0.335
1957	0.407	0.407
1958	0.310	0.310
1959	0.321	0.321
1960	0.334	0.334
1961	0.260	0.260
1962	0.439	0.439
1963	0.399	0.399
1964	0.342	0.342
1965	0.342	0.342
1966	0.339	0.339
1967	0.212	0.212
1968	0.323	0.323
1969	0.310	0.310
1970	0.285	0.285
1971	0.448	0.448
1972	0.381	0.381
1973	0.346	0.346
1974	0.340	0.340
1975	0.299	0.299
1976	0.366	0.366
1977	0.262	0.262
1978	0.455	0.455
1979	0.288	0.288
1980	0.264	0.264
1981	0.335	0.335
1982	0.387	0.387

1983	0.305	0.305
1984	0.288	0.288
1985	0.212	0.212
1986	0.345	0.345
1987	0.240	0.240
1988	0.367	0.367
1989	0.304	0.304
1990	0.403	0.403
1991	0.252	0.252
1992	0.200	0.200
1993	0.222	0.222
1994	0.293	0.293
1995	0.275	0.275
1996	0.337	0.337
1997	0.338	0.338
1998	0.210	0.210
1999	0.266	0.266
2000	0.243	0.243
2001	0.232	0.232
2002	0.354	0.354
2003	0.431	0.431
2004	0.398	0.398
2005	0.312	0.312
2006	0.319	0.319
2007	0.377	0.377
2008	0.192	0.192
2009	0.181	0.181

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #7

Rank	Predeveloped	Mitigated
1	0.4552	0.4552
2	0.4481	0.4481
3	0.4387	0.4387
4	0.4308	0.4308
5	0.4073	0.4073
6	0.4026	0.4026
7	0.3989	0.3989
8	0.3980	0.3980
9	0.3868	0.3868
10	0.3805	0.3805
11	0.3774	0.3774
12	0.3675	0.3675
13	0.3660	0.3660
14	0.3541	0.3541
15	0.3458	0.3458
16	0.3447	0.3447
17	0.3423	0.3423
18	0.3421	0.3421
19	0.3396	0.3396
20	0.3389	0.3389
21	0.3376	0.3376
22	0.3371	0.3371
23	0.3351	0.3351
24	0.3351	0.3351
25	0.3339	0.3339

26	0.3228	0.3228
27	0.3207	0.3207
28	0.3191	0.3191
29	0.3122	0.3122
30	0.3098	0.3098
31	0.3097	0.3097
32	0.3053	0.3053
33	0.3036	0.3036
34	0.2986	0.2986
35	0.2930	0.2930
36	0.2885	0.2885
37	0.2880	0.2880
38	0.2850	0.2850
39	0.2749	0.2749
40	0.2663	0.2663
41	0.2640	0.2640
42	0.2625	0.2625
43	0.2597	0.2597
44	0.2517	0.2517
45	0.2429	0.2429
46	0.2401	0.2401
47	0.2321	0.2321
48	0.2220	0.2220
49	0.2118	0.2118
50	0.2115	0.2115
51	0.2100	0.2100
52	0.2001	0.2001
53	0.1923	0.1923
54	0.1813	0.1813

Stream Protection Duration

POC #7

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1562	1047	1047	100	Pass
0.1593	978	978	100	Pass
0.1624	913	913	100	Pass
0.1656	855	855	100	Pass
0.1687	800	800	100	Pass
0.1718	743	743	100	Pass
0.1750	689	689	100	Pass
0.1781	623	623	100	Pass
0.1813	580	580	100	Pass
0.1844	544	544	100	Pass
0.1875	507	507	100	Pass
0.1907	477	477	100	Pass
0.1938	437	437	100	Pass
0.1969	417	417	100	Pass
0.2001	383	383	100	Pass
0.2032	352	352	100	Pass
0.2063	335	335	100	Pass
0.2095	313	313	100	Pass
0.2126	295	295	100	Pass

0.2157	278	278	100	Pass
0.2189	254	254	100	Pass
0.2220	242	242	100	Pass
0.2252	229	229	100	Pass
0.2283	220	220	100	Pass
0.2314	203	203	100	Pass
0.2346	190	190	100	Pass
0.2377	183	183	100	Pass
0.2408	173	173	100	Pass
0.2440	162	162	100	Pass
0.2471	157	157	100	Pass
0.2502	149	149	100	Pass
0.2534	143	143	100	Pass
0.2565	135	135	100	Pass
0.2596	129	129	100	Pass
0.2628	120	120	100	Pass
0.2659	110	110	100	Pass
0.2691	100	100	100	Pass
0.2722	97	97	100	Pass
0.2753	93	93	100	Pass
0.2785	91	91	100	Pass
0.2816	88	88	100	Pass
0.2847	83	83	100	Pass
0.2879	79	79	100	Pass
0.2910	75	75	100	Pass
0.2941	72	72	100	Pass
0.2973	69	69	100	Pass
0.3004	67	67	100	Pass
0.3035	63	63	100	Pass
0.3067	55	55	100	Pass
0.3098	52	52	100	Pass
0.3130	50	50	100	Pass
0.3161	47	47	100	Pass
0.3192	46	46	100	Pass
0.3224	44	44	100	Pass
0.3255	42	42	100	Pass
0.3286	41	41	100	Pass
0.3318	40	40	100	Pass
0.3349	38	38	100	Pass
0.3380	33	33	100	Pass
0.3412	30	30	100	Pass
0.3443	28	28	100	Pass
0.3474	26	26	100	Pass
0.3506	24	24	100	Pass
0.3537	24	24	100	Pass
0.3569	22	22	100	Pass
0.3600	22	22	100	Pass
0.3631	20	20	100	Pass
0.3663	18	18	100	Pass
0.3694	16	16	100	Pass
0.3725	15	15	100	Pass
0.3757	15	15	100	Pass
0.3788	14	14	100	Pass
0.3819	12	12	100	Pass
0.3851	11	11	100	Pass
0.3882	10	10	100	Pass
0.3913	10	10	100	Pass

0.3945	10	10	100	Pass
0.3976	10	10	100	Pass
0.4008	8	8	100	Pass
0.4039	7	7	100	Pass
0.4070	7	7	100	Pass
0.4102	6	6	100	Pass
0.4133	5	5	100	Pass
0.4164	5	5	100	Pass
0.4196	5	5	100	Pass
0.4227	5	5	100	Pass
0.4258	4	4	100	Pass
0.4290	4	4	100	Pass
0.4321	3	3	100	Pass
0.4352	3	3	100	Pass
0.4384	3	3	100	Pass
0.4415	2	2	100	Pass
0.4447	2	2	100	Pass
0.4478	2	2	100	Pass
0.4509	1	1	100	Pass
0.4541	1	1	100	Pass
0.4572	0	0	100	Pass
0.4603	0	0	0	Pass
0.4635	0	0	0	Pass
0.4666	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #7
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 7
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	20.1065	20.1065	100.0	Pass
Feb	15.3917	15.3917	100.0	Pass
Mar	13.6252	13.6252	100.0	Pass
Apr	7.5738	7.5738	100.0	Pass
May	4.0320	4.0320	100.0	Pass
Jun	2.6664	2.6664	100.0	Pass
Jul	1.3152	1.3152	100.0	Pass
Aug	1.9685	1.9685	100.0	Pass
Sep	4.5131	4.5131	100.0	Pass
Oct	11.1316	11.1316	100.0	Pass
Nov	19.0558	19.0558	100.0	Pass
Dec	19.3990	19.3990	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.6449	0.6449	100.0	Pass
2	0.5070	0.5070	100.0	Pass
3	0.6465	0.6465	100.0	Pass
4	0.7594	0.7594	100.0	Pass

5	0.5515	0.5515	100.0	Pass
6	0.8300	0.8300	100.0	Pass
7	0.6420	0.6420	100.0	Pass
8	0.6451	0.6451	100.0	Pass
9	0.6888	0.6888	100.0	Pass
10	0.6686	0.6686	100.0	Pass
11	0.8187	0.8187	100.0	Pass
12	0.6426	0.6426	100.0	Pass
13	0.8101	0.8101	100.0	Pass
14	0.8080	0.8080	100.0	Pass
15	0.7370	0.7370	100.0	Pass
16	0.6040	0.6040	100.0	Pass
17	0.5790	0.5790	100.0	Pass
18	0.5111	0.5111	100.0	Pass
19	0.5107	0.5107	100.0	Pass
20	0.3350	0.3350	100.0	Pass
21	0.6442	0.6442	100.0	Pass
22	0.7796	0.7796	100.0	Pass
23	0.8723	0.8723	100.0	Pass
24	0.5951	0.5951	100.0	Pass
25	0.5042	0.5042	100.0	Pass
26	0.4553	0.4553	100.0	Pass
27	0.5757	0.5757	100.0	Pass
28	0.7329	0.7329	100.0	Pass
29	0.5601	0.5601	100.0	Pass
30	0.6625	0.6625	100.0	Pass
31	0.3975	0.3975	100.0	Pass
Feb1	0.4533	0.4533	100.0	Pass
2	0.4141	0.4141	100.0	Pass
3	0.3741	0.3741	100.0	Pass
4	0.3465	0.3465	100.0	Pass
5	0.6392	0.6392	100.0	Pass
6	0.3229	0.3229	100.0	Pass
7	0.4702	0.4702	100.0	Pass
8	0.3569	0.3569	100.0	Pass
9	0.4302	0.4302	100.0	Pass
10	0.5727	0.5727	100.0	Pass
11	0.7545	0.7545	100.0	Pass
12	0.5898	0.5898	100.0	Pass
13	0.6340	0.6340	100.0	Pass
14	0.8879	0.8879	100.0	Pass
15	0.6460	0.6460	100.0	Pass
16	0.8471	0.8471	100.0	Pass
17	0.7452	0.7452	100.0	Pass
18	0.5873	0.5873	100.0	Pass
19	0.5111	0.5111	100.0	Pass
20	0.4927	0.4927	100.0	Pass
21	0.4036	0.4036	100.0	Pass
22	0.5915	0.5915	100.0	Pass
23	0.5623	0.5623	100.0	Pass
24	0.6194	0.6194	100.0	Pass
25	0.5533	0.5533	100.0	Pass
26	0.5451	0.5451	100.0	Pass
27	0.4771	0.4771	100.0	Pass
28	0.6466	0.6466	100.0	Pass
29	0.4596	0.4596	100.0	Pass
Mar1	0.4527	0.4527	100.0	Pass

2	0.3696	0.3696	100.0	Pass
3	0.5235	0.5235	100.0	Pass
4	0.5477	0.5477	100.0	Pass
5	0.4302	0.4302	100.0	Pass
6	0.5442	0.5442	100.0	Pass
7	0.5341	0.5341	100.0	Pass
8	0.5182	0.5182	100.0	Pass
9	0.5196	0.5196	100.0	Pass
10	0.4524	0.4524	100.0	Pass
11	0.4915	0.4915	100.0	Pass
12	0.4347	0.4347	100.0	Pass
13	0.5279	0.5279	100.0	Pass
14	0.4177	0.4177	100.0	Pass
15	0.3393	0.3393	100.0	Pass
16	0.3276	0.3276	100.0	Pass
17	0.4455	0.4455	100.0	Pass
18	0.2711	0.2711	100.0	Pass
19	0.4092	0.4092	100.0	Pass
20	0.3288	0.3288	100.0	Pass
21	0.5561	0.5561	100.0	Pass
22	0.6229	0.6229	100.0	Pass
23	0.5135	0.5135	100.0	Pass
24	0.3278	0.3278	100.0	Pass
25	0.5082	0.5082	100.0	Pass
26	0.3686	0.3686	100.0	Pass
27	0.3538	0.3538	100.0	Pass
28	0.3966	0.3966	100.0	Pass
29	0.3632	0.3632	100.0	Pass
30	0.2709	0.2709	100.0	Pass
31	0.2181	0.2181	100.0	Pass
Apr1	0.2343	0.2343	100.0	Pass
2	0.2641	0.2641	100.0	Pass
3	0.3637	0.3637	100.0	Pass
4	0.3287	0.3287	100.0	Pass
5	0.3535	0.3535	100.0	Pass
6	0.1883	0.1883	100.0	Pass
7	0.3161	0.3161	100.0	Pass
8	0.3180	0.3180	100.0	Pass
9	0.2817	0.2817	100.0	Pass
10	0.2786	0.2786	100.0	Pass
11	0.3846	0.3846	100.0	Pass
12	0.3280	0.3280	100.0	Pass
13	0.3429	0.3429	100.0	Pass
14	0.2910	0.2910	100.0	Pass
15	0.3123	0.3123	100.0	Pass
16	0.1712	0.1712	100.0	Pass
17	0.2390	0.2390	100.0	Pass
18	0.2754	0.2754	100.0	Pass
19	0.1468	0.1468	100.0	Pass
20	0.1432	0.1432	100.0	Pass
21	0.2444	0.2444	100.0	Pass
22	0.2027	0.2027	100.0	Pass
23	0.1766	0.1766	100.0	Pass
24	0.1421	0.1421	100.0	Pass
25	0.1726	0.1726	100.0	Pass
26	0.2899	0.2899	100.0	Pass
27	0.2230	0.2230	100.0	Pass

28	0.2332	0.2332	100.0	Pass
29	0.1110	0.1110	100.0	Pass
30	0.1507	0.1507	100.0	Pass
May1	0.2357	0.2357	100.0	Pass
2	0.1691	0.1691	100.0	Pass
3	0.1818	0.1818	100.0	Pass
4	0.1424	0.1424	100.0	Pass
5	0.1376	0.1376	100.0	Pass
6	0.1162	0.1162	100.0	Pass
7	0.1552	0.1552	100.0	Pass
8	0.0937	0.0937	100.0	Pass
9	0.1333	0.1333	100.0	Pass
10	0.1063	0.1063	100.0	Pass
11	0.1001	0.1001	100.0	Pass
12	0.1436	0.1436	100.0	Pass
13	0.1543	0.1543	100.0	Pass
14	0.1509	0.1509	100.0	Pass
15	0.0992	0.0992	100.0	Pass
16	0.1310	0.1310	100.0	Pass
17	0.1064	0.1064	100.0	Pass
18	0.1752	0.1752	100.0	Pass
19	0.0903	0.0903	100.0	Pass
20	0.0888	0.0888	100.0	Pass
21	0.0907	0.0907	100.0	Pass
22	0.1124	0.1124	100.0	Pass
23	0.0980	0.0980	100.0	Pass
24	0.1029	0.1029	100.0	Pass
25	0.0857	0.0857	100.0	Pass
26	0.1509	0.1509	100.0	Pass
27	0.1173	0.1173	100.0	Pass
28	0.1274	0.1274	100.0	Pass
29	0.1741	0.1741	100.0	Pass
30	0.1113	0.1113	100.0	Pass
31	0.1217	0.1217	100.0	Pass
Jun1	0.0905	0.0905	100.0	Pass
2	0.1529	0.1529	100.0	Pass
3	0.1443	0.1443	100.0	Pass
4	0.1025	0.1025	100.0	Pass
5	0.1738	0.1738	100.0	Pass
6	0.0633	0.0633	100.0	Pass
7	0.0996	0.0996	100.0	Pass
8	0.1414	0.1414	100.0	Pass
9	0.1056	0.1056	100.0	Pass
10	0.1007	0.1007	100.0	Pass
11	0.0725	0.0725	100.0	Pass
12	0.0894	0.0894	100.0	Pass
13	0.1431	0.1431	100.0	Pass
14	0.0571	0.0571	100.0	Pass
15	0.1169	0.1169	100.0	Pass
16	0.0499	0.0499	100.0	Pass
17	0.0722	0.0722	100.0	Pass
18	0.0480	0.0480	100.0	Pass
19	0.0584	0.0584	100.0	Pass
20	0.0641	0.0641	100.0	Pass
21	0.0639	0.0639	100.0	Pass
22	0.0343	0.0343	100.0	Pass
23	0.1818	0.1818	100.0	Pass

24	0.0463	0.0463	100.0	Pass
25	0.0794	0.0794	100.0	Pass
26	0.0472	0.0472	100.0	Pass
27	0.0429	0.0429	100.0	Pass
28	0.0444	0.0444	100.0	Pass
29	0.0588	0.0588	100.0	Pass
30	0.1275	0.1275	100.0	Pass
Jul1	0.0306	0.0306	100.0	Pass
2	0.0267	0.0267	100.0	Pass
3	0.0295	0.0295	100.0	Pass
4	0.0729	0.0729	100.0	Pass
5	0.0543	0.0543	100.0	Pass
6	0.0411	0.0411	100.0	Pass
7	0.0795	0.0795	100.0	Pass
8	0.0441	0.0441	100.0	Pass
9	0.0941	0.0941	100.0	Pass
10	0.0606	0.0606	100.0	Pass
11	0.1244	0.1244	100.0	Pass
12	0.0610	0.0610	100.0	Pass
13	0.0454	0.0454	100.0	Pass
14	0.0720	0.0720	100.0	Pass
15	0.0282	0.0282	100.0	Pass
16	0.0178	0.0178	100.0	Pass
17	0.0623	0.0623	100.0	Pass
18	0.0202	0.0202	100.0	Pass
19	0.0254	0.0254	100.0	Pass
20	0.0454	0.0454	100.0	Pass
21	0.0357	0.0357	100.0	Pass
22	0.0027	0.0027	100.0	Pass
23	0.0102	0.0102	100.0	Pass
24	0.0118	0.0118	100.0	Pass
25	0.0266	0.0266	100.0	Pass
26	0.0109	0.0109	100.0	Pass
27	0.0166	0.0166	100.0	Pass
28	0.0137	0.0137	100.0	Pass
29	0.0087	0.0087	100.0	Pass
30	0.0153	0.0153	100.0	Pass
31	0.0178	0.0178	100.0	Pass
Aug1	0.0730	0.0730	100.0	Pass
2	0.0248	0.0248	100.0	Pass
3	0.0091	0.0091	100.0	Pass
4	0.0094	0.0094	100.0	Pass
5	0.0827	0.0827	100.0	Pass
6	0.0548	0.0548	100.0	Pass
7	0.0193	0.0193	100.0	Pass
8	0.0200	0.0200	100.0	Pass
9	0.0013	0.0013	100.0	Pass
10	0.0106	0.0106	100.0	Pass
11	0.0532	0.0532	100.0	Pass
12	0.0453	0.0453	100.0	Pass
13	0.0570	0.0570	100.0	Pass
14	0.0346	0.0346	100.0	Pass
15	0.0308	0.0308	100.0	Pass
16	0.0265	0.0265	100.0	Pass
17	0.0525	0.0525	100.0	Pass
18	0.1015	0.1015	100.0	Pass
19	0.0274	0.0274	100.0	Pass

20	0.0785	0.0785	100.0	Pass
21	0.0719	0.0719	100.0	Pass
22	0.1405	0.1405	100.0	Pass
23	0.1312	0.1312	100.0	Pass
24	0.1126	0.1126	100.0	Pass
25	0.0446	0.0446	100.0	Pass
26	0.1355	0.1355	100.0	Pass
27	0.1377	0.1377	100.0	Pass
28	0.1376	0.1376	100.0	Pass
29	0.0862	0.0862	100.0	Pass
30	0.1406	0.1406	100.0	Pass
31	0.2230	0.2230	100.0	Pass
Sep1	0.0845	0.0845	100.0	Pass
2	0.0872	0.0872	100.0	Pass
3	0.0948	0.0948	100.0	Pass
4	0.1196	0.1196	100.0	Pass
5	0.1022	0.1022	100.0	Pass
6	0.0697	0.0697	100.0	Pass
7	0.1375	0.1375	100.0	Pass
8	0.0867	0.0867	100.0	Pass
9	0.2236	0.2236	100.0	Pass
10	0.0516	0.0516	100.0	Pass
11	0.0438	0.0438	100.0	Pass
12	0.1180	0.1180	100.0	Pass
13	0.2215	0.2215	100.0	Pass
14	0.1400	0.1400	100.0	Pass
15	0.2130	0.2130	100.0	Pass
16	0.2252	0.2252	100.0	Pass
17	0.2458	0.2458	100.0	Pass
18	0.2211	0.2211	100.0	Pass
19	0.2360	0.2360	100.0	Pass
20	0.1714	0.1714	100.0	Pass
21	0.2381	0.2381	100.0	Pass
22	0.1906	0.1906	100.0	Pass
23	0.1503	0.1503	100.0	Pass
24	0.1078	0.1078	100.0	Pass
25	0.1150	0.1150	100.0	Pass
26	0.1162	0.1162	100.0	Pass
27	0.1585	0.1585	100.0	Pass
28	0.1378	0.1378	100.0	Pass
29	0.1830	0.1830	100.0	Pass
30	0.1316	0.1316	100.0	Pass
Oct1	0.0919	0.0919	100.0	Pass
2	0.2361	0.2361	100.0	Pass
3	0.2102	0.2102	100.0	Pass
4	0.2566	0.2566	100.0	Pass
5	0.2725	0.2725	100.0	Pass
6	0.3014	0.3014	100.0	Pass
7	0.3855	0.3855	100.0	Pass
8	0.3126	0.3126	100.0	Pass
9	0.2421	0.2421	100.0	Pass
10	0.1977	0.1977	100.0	Pass
11	0.3781	0.3781	100.0	Pass
12	0.2526	0.2526	100.0	Pass
13	0.3541	0.3541	100.0	Pass
14	0.2001	0.2001	100.0	Pass
15	0.2376	0.2376	100.0	Pass

16	0.3210	0.3210	100.0	Pass
17	0.2929	0.2929	100.0	Pass
18	0.4706	0.4706	100.0	Pass
19	0.5791	0.5791	100.0	Pass
20	0.4992	0.4992	100.0	Pass
21	0.6034	0.6034	100.0	Pass
22	0.3527	0.3527	100.0	Pass
23	0.5872	0.5872	100.0	Pass
24	0.5139	0.5139	100.0	Pass
25	0.4592	0.4592	100.0	Pass
26	0.5577	0.5577	100.0	Pass
27	0.4723	0.4723	100.0	Pass
28	0.4397	0.4397	100.0	Pass
29	0.3711	0.3711	100.0	Pass
30	0.5523	0.5523	100.0	Pass
31	0.4641	0.4641	100.0	Pass
Nov1	0.5865	0.5865	100.0	Pass
2	0.7111	0.7111	100.0	Pass
3	0.5494	0.5494	100.0	Pass
4	0.5587	0.5587	100.0	Pass
5	0.6178	0.6178	100.0	Pass
6	0.5147	0.5147	100.0	Pass
7	0.4666	0.4666	100.0	Pass
8	0.6052	0.6052	100.0	Pass
9	0.7148	0.7148	100.0	Pass
10	0.6106	0.6106	100.0	Pass
11	0.6837	0.6837	100.0	Pass
12	0.6321	0.6321	100.0	Pass
13	0.4705	0.4705	100.0	Pass
14	0.5541	0.5541	100.0	Pass
15	0.6232	0.6232	100.0	Pass
16	0.6510	0.6510	100.0	Pass
17	0.5939	0.5939	100.0	Pass
18	0.8766	0.8766	100.0	Pass
19	0.7811	0.7811	100.0	Pass
20	0.5137	0.5137	100.0	Pass
21	0.8149	0.8149	100.0	Pass
22	0.9648	0.9648	100.0	Pass
23	0.7300	0.7300	100.0	Pass
24	0.8378	0.8378	100.0	Pass
25	0.5485	0.5485	100.0	Pass
26	0.4457	0.4457	100.0	Pass
27	0.5461	0.5461	100.0	Pass
28	0.5208	0.5208	100.0	Pass
29	0.8688	0.8688	100.0	Pass
30	0.6892	0.6892	100.0	Pass
Dec1	0.7628	0.7628	100.0	Pass
2	0.7372	0.7372	100.0	Pass
3	0.4695	0.4695	100.0	Pass
4	0.5243	0.5243	100.0	Pass
5	0.4487	0.4487	100.0	Pass
6	0.3900	0.3900	100.0	Pass
7	0.5659	0.5659	100.0	Pass
8	0.7112	0.7112	100.0	Pass
9	0.7032	0.7032	100.0	Pass
10	0.7583	0.7583	100.0	Pass
11	0.5510	0.5510	100.0	Pass

12	0.5988	0.5988	100.0	Pass
13	0.8958	0.8958	100.0	Pass
14	0.6152	0.6152	100.0	Pass
15	0.8107	0.8107	100.0	Pass
16	0.5412	0.5412	100.0	Pass
17	0.6503	0.6503	100.0	Pass
18	0.5330	0.5330	100.0	Pass
19	0.6292	0.6292	100.0	Pass
20	0.6148	0.6148	100.0	Pass
21	0.6767	0.6767	100.0	Pass
22	0.6664	0.6664	100.0	Pass
23	0.7246	0.7246	100.0	Pass
24	0.8040	0.8040	100.0	Pass
25	0.6939	0.6939	100.0	Pass
26	0.6321	0.6321	100.0	Pass
27	0.4226	0.4226	100.0	Pass
28	0.6755	0.6755	100.0	Pass
29	0.4412	0.4412	100.0	Pass
30	0.4631	0.4631	100.0	Pass
31	0.7864	0.7864	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #8

Total Pervious Area:0.058

Total Impervious Area:0.269

Mitigated Landuse Totals for POC #8

Total Pervious Area:0.058

Total Impervious Area:0.269

Flow Frequency Return Periods for Predeveloped. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.195966
5 year	0.233972
10 year	0.25461
25 year	0.276978
50 year	0.291535
100 year	0.304648

Flow Frequency Return Periods for Mitigated. POC #8

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.195966
5 year	0.233972
10 year	0.25461
25 year	0.276978
50 year	0.291535
100 year	0.304648

Stream Protection Duration**Annual Peaks for Predeveloped and Mitigated. POC #8**

Year	Predeveloped	Mitigated
1956	0.209	0.209
1957	0.255	0.255
1958	0.195	0.195
1959	0.201	0.201
1960	0.209	0.209
1961	0.164	0.164
1962	0.274	0.274
1963	0.249	0.249
1964	0.215	0.215
1965	0.214	0.214
1966	0.212	0.212
1967	0.133	0.133
1968	0.202	0.202
1969	0.193	0.193
1970	0.179	0.179
1971	0.280	0.280
1972	0.238	0.238
1973	0.217	0.217
1974	0.212	0.212
1975	0.187	0.187
1976	0.229	0.229
1977	0.165	0.165
1978	0.285	0.285
1979	0.180	0.180
1980	0.166	0.166
1981	0.210	0.210
1982	0.243	0.243
1983	0.192	0.192
1984	0.181	0.181
1985	0.134	0.134
1986	0.216	0.216
1987	0.151	0.151
1988	0.230	0.230
1989	0.191	0.191
1990	0.252	0.252
1991	0.159	0.159
1992	0.126	0.126
1993	0.140	0.140
1994	0.184	0.184
1995	0.174	0.174
1996	0.213	0.213
1997	0.212	0.212
1998	0.132	0.132
1999	0.167	0.167
2000	0.152	0.152
2001	0.146	0.146
2002	0.225	0.225
2003	0.269	0.269
2004	0.249	0.249
2005	0.196	0.196
2006	0.200	0.200
2007	0.236	0.236
2008	0.121	0.121
2009	0.114	0.114

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #8

Rank	Predeveloped	Mitigated
1	0.2853	0.2853
2	0.2801	0.2801
3	0.2740	0.2740
4	0.2690	0.2690
5	0.2553	0.2553
6	0.2516	0.2516
7	0.2494	0.2494
8	0.2490	0.2490
9	0.2428	0.2428
10	0.2375	0.2375
11	0.2359	0.2359
12	0.2301	0.2301
13	0.2290	0.2290
14	0.2248	0.2248
15	0.2168	0.2168
16	0.2159	0.2159
17	0.2147	0.2147
18	0.2143	0.2143
19	0.2131	0.2131
20	0.2121	0.2121
21	0.2121	0.2121
22	0.2118	0.2118
23	0.2102	0.2102
24	0.2093	0.2093
25	0.2086	0.2086
26	0.2021	0.2021
27	0.2006	0.2006
28	0.1998	0.1998
29	0.1957	0.1957
30	0.1947	0.1947
31	0.1935	0.1935
32	0.1915	0.1915
33	0.1905	0.1905
34	0.1871	0.1871
35	0.1838	0.1838
36	0.1806	0.1806
37	0.1804	0.1804
38	0.1794	0.1794
39	0.1741	0.1741
40	0.1672	0.1672
41	0.1657	0.1657
42	0.1648	0.1648
43	0.1638	0.1638
44	0.1594	0.1594
45	0.1524	0.1524
46	0.1506	0.1506
47	0.1464	0.1464
48	0.1399	0.1399
49	0.1336	0.1336
50	0.1332	0.1332
51	0.1323	0.1323
52	0.1261	0.1261

53	0.1211	0.1211
54	0.1144	0.1144

Stream Protection Duration

POC #8

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0980	1061	1061	100	Pass
0.0999	988	988	100	Pass
0.1019	920	920	100	Pass
0.1038	864	864	100	Pass
0.1058	806	806	100	Pass
0.1078	744	744	100	Pass
0.1097	685	685	100	Pass
0.1117	633	633	100	Pass
0.1136	587	587	100	Pass
0.1156	547	547	100	Pass
0.1175	509	509	100	Pass
0.1195	480	480	100	Pass
0.1214	437	437	100	Pass
0.1234	416	416	100	Pass
0.1254	386	386	100	Pass
0.1273	357	357	100	Pass
0.1293	336	336	100	Pass
0.1312	315	315	100	Pass
0.1332	298	298	100	Pass
0.1351	276	276	100	Pass
0.1371	257	257	100	Pass
0.1390	245	245	100	Pass
0.1410	235	235	100	Pass
0.1429	223	223	100	Pass
0.1449	207	207	100	Pass
0.1469	191	191	100	Pass
0.1488	185	185	100	Pass
0.1508	173	173	100	Pass
0.1527	164	164	100	Pass
0.1547	158	158	100	Pass
0.1566	151	151	100	Pass
0.1586	146	146	100	Pass
0.1605	136	136	100	Pass
0.1625	130	130	100	Pass
0.1645	118	118	100	Pass
0.1664	110	110	100	Pass
0.1684	101	101	100	Pass
0.1703	98	98	100	Pass
0.1723	95	95	100	Pass
0.1742	92	92	100	Pass
0.1762	87	87	100	Pass
0.1781	83	83	100	Pass
0.1801	78	78	100	Pass
0.1821	75	75	100	Pass
0.1840	72	72	100	Pass
0.1860	69	69	100	Pass

0.1879	67	67	100	Pass
0.1899	62	62	100	Pass
0.1918	56	56	100	Pass
0.1938	51	51	100	Pass
0.1957	49	49	100	Pass
0.1977	47	47	100	Pass
0.1996	46	46	100	Pass
0.2016	43	43	100	Pass
0.2036	42	42	100	Pass
0.2055	41	41	100	Pass
0.2075	40	40	100	Pass
0.2094	36	36	100	Pass
0.2114	35	35	100	Pass
0.2133	30	30	100	Pass
0.2153	28	28	100	Pass
0.2172	26	26	100	Pass
0.2192	24	24	100	Pass
0.2212	23	23	100	Pass
0.2231	23	23	100	Pass
0.2251	22	22	100	Pass
0.2270	22	22	100	Pass
0.2290	19	19	100	Pass
0.2309	16	16	100	Pass
0.2329	15	15	100	Pass
0.2348	15	15	100	Pass
0.2368	14	14	100	Pass
0.2387	12	12	100	Pass
0.2407	12	12	100	Pass
0.2427	11	11	100	Pass
0.2446	10	10	100	Pass
0.2466	10	10	100	Pass
0.2485	10	10	100	Pass
0.2505	8	8	100	Pass
0.2524	7	7	100	Pass
0.2544	7	7	100	Pass
0.2563	5	5	100	Pass
0.2583	5	5	100	Pass
0.2603	5	5	100	Pass
0.2622	5	5	100	Pass
0.2642	4	4	100	Pass
0.2661	4	4	100	Pass
0.2681	4	4	100	Pass
0.2700	3	3	100	Pass
0.2720	3	3	100	Pass
0.2739	3	3	100	Pass
0.2759	2	2	100	Pass
0.2778	2	2	100	Pass
0.2798	2	2	100	Pass
0.2818	1	1	100	Pass
0.2837	1	1	100	Pass
0.2857	0	0	100	Pass
0.2876	0	0	0	Pass
0.2896	0	0	0	Pass
0.2915	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #8
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 8
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	12.5332	12.5332	100.0	Pass
Feb	9.5903	9.5903	100.0	Pass
Mar	8.4922	8.4922	100.0	Pass
Apr	4.7281	4.7281	100.0	Pass
May	2.5290	2.5290	100.0	Pass
Jun	1.6763	1.6763	100.0	Pass
Jul	0.8289	0.8289	100.0	Pass
Aug	1.2426	1.2426	100.0	Pass
Sep	2.8388	2.8388	100.0	Pass
Oct	6.9767	6.9767	100.0	Pass
Nov	11.8963	11.8963	100.0	Pass
Dec	12.0920	12.0920	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4022	0.4022	100.0	Pass
2	0.3153	0.3153	100.0	Pass
3	0.4035	0.4035	100.0	Pass
4	0.4749	0.4749	100.0	Pass
5	0.3430	0.3430	100.0	Pass
6	0.5192	0.5192	100.0	Pass
7	0.3995	0.3995	100.0	Pass
8	0.4019	0.4019	100.0	Pass
9	0.4300	0.4300	100.0	Pass
10	0.4166	0.4166	100.0	Pass
11	0.5110	0.5110	100.0	Pass
12	0.3996	0.3996	100.0	Pass
13	0.5056	0.5056	100.0	Pass
14	0.5038	0.5038	100.0	Pass
15	0.4589	0.4589	100.0	Pass
16	0.3749	0.3749	100.0	Pass
17	0.3598	0.3598	100.0	Pass
18	0.3175	0.3175	100.0	Pass
19	0.3179	0.3179	100.0	Pass
20	0.2074	0.2074	100.0	Pass
21	0.4040	0.4040	100.0	Pass
22	0.4874	0.4874	100.0	Pass
23	0.5447	0.5447	100.0	Pass
24	0.3694	0.3694	100.0	Pass
25	0.3128	0.3128	100.0	Pass
26	0.2826	0.2826	100.0	Pass
27	0.3593	0.3593	100.0	Pass
28	0.4580	0.4580	100.0	Pass
29	0.3483	0.3483	100.0	Pass
30	0.4135	0.4135	100.0	Pass
31	0.2462	0.2462	100.0	Pass

Feb1	0.2821	0.2821	100.0	Pass
2	0.2580	0.2580	100.0	Pass
3	0.2328	0.2328	100.0	Pass
4	0.2156	0.2156	100.0	Pass
5	0.4004	0.4004	100.0	Pass
6	0.1998	0.1998	100.0	Pass
7	0.2936	0.2936	100.0	Pass
8	0.2220	0.2220	100.0	Pass
9	0.2688	0.2688	100.0	Pass
10	0.3585	0.3585	100.0	Pass
11	0.4718	0.4718	100.0	Pass
12	0.3670	0.3670	100.0	Pass
13	0.3955	0.3955	100.0	Pass
14	0.5556	0.5556	100.0	Pass
15	0.4014	0.4014	100.0	Pass
16	0.5290	0.5290	100.0	Pass
17	0.4641	0.4641	100.0	Pass
18	0.3641	0.3641	100.0	Pass
19	0.3172	0.3172	100.0	Pass
20	0.3061	0.3061	100.0	Pass
21	0.2507	0.2507	100.0	Pass
22	0.3694	0.3694	100.0	Pass
23	0.3506	0.3506	100.0	Pass
24	0.3864	0.3864	100.0	Pass
25	0.3444	0.3444	100.0	Pass
26	0.3391	0.3391	100.0	Pass
27	0.2966	0.2966	100.0	Pass
28	0.4027	0.4027	100.0	Pass
29	0.2860	0.2860	100.0	Pass
Mar1	0.2820	0.2820	100.0	Pass
2	0.2297	0.2297	100.0	Pass
3	0.3271	0.3271	100.0	Pass
4	0.3419	0.3419	100.0	Pass
5	0.2678	0.2678	100.0	Pass
6	0.3394	0.3394	100.0	Pass
7	0.3335	0.3335	100.0	Pass
8	0.3230	0.3230	100.0	Pass
9	0.3239	0.3239	100.0	Pass
10	0.2815	0.2815	100.0	Pass
11	0.3063	0.3063	100.0	Pass
12	0.2707	0.2707	100.0	Pass
13	0.3294	0.3294	100.0	Pass
14	0.2598	0.2598	100.0	Pass
15	0.2108	0.2108	100.0	Pass
16	0.2040	0.2040	100.0	Pass
17	0.2781	0.2781	100.0	Pass
18	0.1682	0.1682	100.0	Pass
19	0.2558	0.2558	100.0	Pass
20	0.2049	0.2049	100.0	Pass
21	0.3483	0.3483	100.0	Pass
22	0.3898	0.3898	100.0	Pass
23	0.3197	0.3197	100.0	Pass
24	0.2027	0.2027	100.0	Pass
25	0.3175	0.3175	100.0	Pass
26	0.2290	0.2290	100.0	Pass
27	0.2204	0.2204	100.0	Pass
28	0.2472	0.2472	100.0	Pass

29	0.2264	0.2264	100.0	Pass
30	0.1682	0.1682	100.0	Pass
31	0.1354	0.1354	100.0	Pass
Apr1	0.1460	0.1460	100.0	Pass
2	0.1650	0.1650	100.0	Pass
3	0.2280	0.2280	100.0	Pass
4	0.2053	0.2053	100.0	Pass
5	0.2204	0.2204	100.0	Pass
6	0.1165	0.1165	100.0	Pass
7	0.1978	0.1978	100.0	Pass
8	0.1985	0.1985	100.0	Pass
9	0.1760	0.1760	100.0	Pass
10	0.1737	0.1737	100.0	Pass
11	0.2411	0.2411	100.0	Pass
12	0.2047	0.2047	100.0	Pass
13	0.2143	0.2143	100.0	Pass
14	0.1813	0.1813	100.0	Pass
15	0.1947	0.1947	100.0	Pass
16	0.1059	0.1059	100.0	Pass
17	0.1493	0.1493	100.0	Pass
18	0.1723	0.1723	100.0	Pass
19	0.0908	0.0908	100.0	Pass
20	0.0892	0.0892	100.0	Pass
21	0.1533	0.1533	100.0	Pass
22	0.1268	0.1268	100.0	Pass
23	0.1102	0.1102	100.0	Pass
24	0.0886	0.0886	100.0	Pass
25	0.1081	0.1081	100.0	Pass
26	0.1817	0.1817	100.0	Pass
27	0.1392	0.1392	100.0	Pass
28	0.1456	0.1456	100.0	Pass
29	0.0686	0.0686	100.0	Pass
30	0.0943	0.0943	100.0	Pass
May1	0.1481	0.1481	100.0	Pass
2	0.1056	0.1056	100.0	Pass
3	0.1139	0.1139	100.0	Pass
4	0.0889	0.0889	100.0	Pass
5	0.0860	0.0860	100.0	Pass
6	0.0727	0.0727	100.0	Pass
7	0.0974	0.0974	100.0	Pass
8	0.0585	0.0585	100.0	Pass
9	0.0837	0.0837	100.0	Pass
10	0.0666	0.0666	100.0	Pass
11	0.0628	0.0628	100.0	Pass
12	0.0902	0.0902	100.0	Pass
13	0.0970	0.0970	100.0	Pass
14	0.0948	0.0948	100.0	Pass
15	0.0618	0.0618	100.0	Pass
16	0.0823	0.0823	100.0	Pass
17	0.0667	0.0667	100.0	Pass
18	0.1104	0.1104	100.0	Pass
19	0.0564	0.0564	100.0	Pass
20	0.0558	0.0558	100.0	Pass
21	0.0570	0.0570	100.0	Pass
22	0.0708	0.0708	100.0	Pass
23	0.0616	0.0616	100.0	Pass
24	0.0646	0.0646	100.0	Pass

25	0.0537	0.0537	100.0	Pass
26	0.0950	0.0950	100.0	Pass
27	0.0736	0.0736	100.0	Pass
28	0.0801	0.0801	100.0	Pass
29	0.1094	0.1094	100.0	Pass
30	0.0696	0.0696	100.0	Pass
31	0.0762	0.0762	100.0	Pass
Jun1	0.0565	0.0565	100.0	Pass
2	0.0964	0.0964	100.0	Pass
3	0.0909	0.0909	100.0	Pass
4	0.0643	0.0643	100.0	Pass
5	0.1095	0.1095	100.0	Pass
6	0.0394	0.0394	100.0	Pass
7	0.0624	0.0624	100.0	Pass
8	0.0889	0.0889	100.0	Pass
9	0.0663	0.0663	100.0	Pass
10	0.0634	0.0634	100.0	Pass
11	0.0455	0.0455	100.0	Pass
12	0.0563	0.0563	100.0	Pass
13	0.0902	0.0902	100.0	Pass
14	0.0356	0.0356	100.0	Pass
15	0.0736	0.0736	100.0	Pass
16	0.0311	0.0311	100.0	Pass
17	0.0453	0.0453	100.0	Pass
18	0.0300	0.0300	100.0	Pass
19	0.0368	0.0368	100.0	Pass
20	0.0405	0.0405	100.0	Pass
21	0.0402	0.0402	100.0	Pass
22	0.0215	0.0215	100.0	Pass
23	0.1151	0.1151	100.0	Pass
24	0.0287	0.0287	100.0	Pass
25	0.0500	0.0500	100.0	Pass
26	0.0297	0.0297	100.0	Pass
27	0.0271	0.0271	100.0	Pass
28	0.0280	0.0280	100.0	Pass
29	0.0372	0.0372	100.0	Pass
30	0.0806	0.0806	100.0	Pass
Jul1	0.0191	0.0191	100.0	Pass
2	0.0168	0.0168	100.0	Pass
3	0.0186	0.0186	100.0	Pass
4	0.0463	0.0463	100.0	Pass
5	0.0344	0.0344	100.0	Pass
6	0.0260	0.0260	100.0	Pass
7	0.0503	0.0503	100.0	Pass
8	0.0277	0.0277	100.0	Pass
9	0.0595	0.0595	100.0	Pass
10	0.0382	0.0382	100.0	Pass
11	0.0783	0.0783	100.0	Pass
12	0.0378	0.0378	100.0	Pass
13	0.0283	0.0283	100.0	Pass
14	0.0453	0.0453	100.0	Pass
15	0.0176	0.0176	100.0	Pass
16	0.0112	0.0112	100.0	Pass
17	0.0394	0.0394	100.0	Pass
18	0.0125	0.0125	100.0	Pass
19	0.0160	0.0160	100.0	Pass
20	0.0287	0.0287	100.0	Pass

21	0.0225	0.0225	100.0	Pass
22	0.0016	0.0016	100.0	Pass
23	0.0064	0.0064	100.0	Pass
24	0.0075	0.0075	100.0	Pass
25	0.0169	0.0169	100.0	Pass
26	0.0069	0.0069	100.0	Pass
27	0.0106	0.0106	100.0	Pass
28	0.0087	0.0087	100.0	Pass
29	0.0055	0.0055	100.0	Pass
30	0.0097	0.0097	100.0	Pass
31	0.0113	0.0113	100.0	Pass
Aug1	0.0464	0.0464	100.0	Pass
2	0.0156	0.0156	100.0	Pass
3	0.0057	0.0057	100.0	Pass
4	0.0059	0.0059	100.0	Pass
5	0.0524	0.0524	100.0	Pass
6	0.0346	0.0346	100.0	Pass
7	0.0121	0.0121	100.0	Pass
8	0.0127	0.0127	100.0	Pass
9	0.0008	0.0008	100.0	Pass
10	0.0067	0.0067	100.0	Pass
11	0.0338	0.0338	100.0	Pass
12	0.0287	0.0287	100.0	Pass
13	0.0362	0.0362	100.0	Pass
14	0.0218	0.0218	100.0	Pass
15	0.0194	0.0194	100.0	Pass
16	0.0167	0.0167	100.0	Pass
17	0.0333	0.0333	100.0	Pass
18	0.0644	0.0644	100.0	Pass
19	0.0172	0.0172	100.0	Pass
20	0.0498	0.0498	100.0	Pass
21	0.0455	0.0455	100.0	Pass
22	0.0889	0.0889	100.0	Pass
23	0.0828	0.0828	100.0	Pass
24	0.0705	0.0705	100.0	Pass
25	0.0277	0.0277	100.0	Pass
26	0.0856	0.0856	100.0	Pass
27	0.0868	0.0868	100.0	Pass
28	0.0866	0.0866	100.0	Pass
29	0.0541	0.0541	100.0	Pass
30	0.0889	0.0889	100.0	Pass
31	0.1407	0.1407	100.0	Pass
Sep1	0.0526	0.0526	100.0	Pass
2	0.0546	0.0546	100.0	Pass
3	0.0596	0.0596	100.0	Pass
4	0.0754	0.0754	100.0	Pass
5	0.0643	0.0643	100.0	Pass
6	0.0438	0.0438	100.0	Pass
7	0.0870	0.0870	100.0	Pass
8	0.0546	0.0546	100.0	Pass
9	0.1415	0.1415	100.0	Pass
10	0.0322	0.0322	100.0	Pass
11	0.0275	0.0275	100.0	Pass
12	0.0747	0.0747	100.0	Pass
13	0.1400	0.1400	100.0	Pass
14	0.0881	0.0881	100.0	Pass
15	0.1343	0.1343	100.0	Pass

16	0.1415	0.1415	100.0	Pass
17	0.1548	0.1548	100.0	Pass
18	0.1391	0.1391	100.0	Pass
19	0.1483	0.1483	100.0	Pass
20	0.1072	0.1072	100.0	Pass
21	0.1492	0.1492	100.0	Pass
22	0.1193	0.1193	100.0	Pass
23	0.0941	0.0941	100.0	Pass
24	0.0675	0.0675	100.0	Pass
25	0.0724	0.0724	100.0	Pass
26	0.0731	0.0731	100.0	Pass
27	0.0996	0.0996	100.0	Pass
28	0.0867	0.0867	100.0	Pass
29	0.1154	0.1154	100.0	Pass
30	0.0826	0.0826	100.0	Pass
Oct1	0.0575	0.0575	100.0	Pass
2	0.1492	0.1492	100.0	Pass
3	0.1325	0.1325	100.0	Pass
4	0.1616	0.1616	100.0	Pass
5	0.1714	0.1714	100.0	Pass
6	0.1897	0.1897	100.0	Pass
7	0.2425	0.2425	100.0	Pass
8	0.1960	0.1960	100.0	Pass
9	0.1515	0.1515	100.0	Pass
10	0.1236	0.1236	100.0	Pass
11	0.2382	0.2382	100.0	Pass
12	0.1583	0.1583	100.0	Pass
13	0.2229	0.2229	100.0	Pass
14	0.1248	0.1248	100.0	Pass
15	0.1489	0.1489	100.0	Pass
16	0.2014	0.2014	100.0	Pass
17	0.1836	0.1836	100.0	Pass
18	0.2955	0.2955	100.0	Pass
19	0.3632	0.3632	100.0	Pass
20	0.3128	0.3128	100.0	Pass
21	0.3782	0.3782	100.0	Pass
22	0.2193	0.2193	100.0	Pass
23	0.3680	0.3680	100.0	Pass
24	0.3214	0.3214	100.0	Pass
25	0.2869	0.2869	100.0	Pass
26	0.3492	0.3492	100.0	Pass
27	0.2948	0.2948	100.0	Pass
28	0.2745	0.2745	100.0	Pass
29	0.2313	0.2313	100.0	Pass
30	0.3462	0.3462	100.0	Pass
31	0.2898	0.2898	100.0	Pass
Nov1	0.3668	0.3668	100.0	Pass
2	0.4459	0.4459	100.0	Pass
3	0.3423	0.3423	100.0	Pass
4	0.3490	0.3490	100.0	Pass
5	0.3861	0.3861	100.0	Pass
6	0.3207	0.3207	100.0	Pass
7	0.2908	0.2908	100.0	Pass
8	0.3789	0.3789	100.0	Pass
9	0.4473	0.4473	100.0	Pass
10	0.3811	0.3811	100.0	Pass
11	0.4272	0.4272	100.0	Pass

12	0.3949	0.3949	100.0	Pass
13	0.2923	0.2923	100.0	Pass
14	0.3460	0.3460	100.0	Pass
15	0.3895	0.3895	100.0	Pass
16	0.4069	0.4069	100.0	Pass
17	0.3705	0.3705	100.0	Pass
18	0.5486	0.5486	100.0	Pass
19	0.4873	0.4873	100.0	Pass
20	0.3187	0.3187	100.0	Pass
21	0.5094	0.5094	100.0	Pass
22	0.6040	0.6040	100.0	Pass
23	0.4543	0.4543	100.0	Pass
24	0.5227	0.5227	100.0	Pass
25	0.3400	0.3400	100.0	Pass
26	0.2762	0.2762	100.0	Pass
27	0.3408	0.3408	100.0	Pass
28	0.3249	0.3249	100.0	Pass
29	0.5442	0.5442	100.0	Pass
30	0.4294	0.4294	100.0	Pass
Decl	0.4761	0.4761	100.0	Pass
2	0.4594	0.4594	100.0	Pass
3	0.2910	0.2910	100.0	Pass
4	0.3266	0.3266	100.0	Pass
5	0.2789	0.2789	100.0	Pass
6	0.2428	0.2428	100.0	Pass
7	0.3541	0.3541	100.0	Pass
8	0.4451	0.4451	100.0	Pass
9	0.4389	0.4389	100.0	Pass
10	0.4731	0.4731	100.0	Pass
11	0.3426	0.3426	100.0	Pass
12	0.3733	0.3733	100.0	Pass
13	0.5608	0.5608	100.0	Pass
14	0.3822	0.3822	100.0	Pass
15	0.5065	0.5065	100.0	Pass
16	0.3357	0.3357	100.0	Pass
17	0.4055	0.4055	100.0	Pass
18	0.3317	0.3317	100.0	Pass
19	0.3930	0.3930	100.0	Pass
20	0.3832	0.3832	100.0	Pass
21	0.4218	0.4218	100.0	Pass
22	0.4156	0.4156	100.0	Pass
23	0.4522	0.4522	100.0	Pass
24	0.5024	0.5024	100.0	Pass
25	0.4318	0.4318	100.0	Pass
26	0.3931	0.3931	100.0	Pass
27	0.2619	0.2619	100.0	Pass
28	0.4221	0.4221	100.0	Pass
29	0.2736	0.2736	100.0	Pass
30	0.2884	0.2884	100.0	Pass
31	0.4921	0.4921	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #9
Total Pervious Area:0.094
Total Impervious Area:0.154

Mitigated Landuse Totals for POC #9
Total Pervious Area:0.094
Total Impervious Area:0.154

Flow Frequency Return Periods for Predeveloped. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.132131
5 year	0.161252
10 year	0.177319
25 year	0.194915
50 year	0.206463
100 year	0.216925

Flow Frequency Return Periods for Mitigated. POC #9

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.132131
5 year	0.161252
10 year	0.177319
25 year	0.194915
50 year	0.206463
100 year	0.216925

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #9

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.148	0.148
1957	0.174	0.174
1958	0.129	0.129
1959	0.140	0.140
1960	0.147	0.147
1961	0.104	0.104
1962	0.194	0.194
1963	0.175	0.175
1964	0.144	0.144
1965	0.148	0.148
1966	0.149	0.149
1967	0.087	0.087
1968	0.139	0.139
1969	0.137	0.137
1970	0.116	0.116
1971	0.197	0.197
1972	0.169	0.169
1973	0.147	0.147
1974	0.150	0.150
1975	0.128	0.128
1976	0.159	0.159
1977	0.110	0.110
1978	0.194	0.194
1979	0.124	0.124

1980	0.111	0.111
1981	0.142	0.142
1982	0.163	0.163
1983	0.129	0.129
1984	0.124	0.124
1985	0.083	0.083
1986	0.148	0.148
1987	0.102	0.102
1988	0.158	0.158
1989	0.128	0.128
1990	0.177	0.177
1991	0.106	0.106
1992	0.081	0.081
1993	0.089	0.089
1994	0.124	0.124
1995	0.105	0.105
1996	0.132	0.132
1997	0.141	0.141
1998	0.085	0.085
1999	0.112	0.112
2000	0.103	0.103
2001	0.093	0.093
2002	0.131	0.131
2003	0.191	0.191
2004	0.173	0.173
2005	0.133	0.133
2006	0.138	0.138
2007	0.165	0.165
2008	0.078	0.078
2009	0.072	0.072

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #9

Rank	Predeveloped	Mitigated
1	0.1967	0.1967
2	0.1944	0.1944
3	0.1940	0.1940
4	0.1911	0.1911
5	0.1769	0.1769
6	0.1746	0.1746
7	0.1742	0.1742
8	0.1733	0.1733
9	0.1694	0.1694
10	0.1652	0.1652
11	0.1629	0.1629
12	0.1587	0.1587
13	0.1583	0.1583
14	0.1499	0.1499
15	0.1491	0.1491
16	0.1483	0.1483
17	0.1482	0.1482
18	0.1477	0.1477
19	0.1472	0.1472
20	0.1469	0.1469
21	0.1444	0.1444
22	0.1416	0.1416

23	0.1412	0.1412
24	0.1402	0.1402
25	0.1395	0.1395
26	0.1379	0.1379
27	0.1367	0.1367
28	0.1334	0.1334
29	0.1316	0.1316
30	0.1314	0.1314
31	0.1292	0.1292
32	0.1289	0.1289
33	0.1283	0.1283
34	0.1280	0.1280
35	0.1244	0.1244
36	0.1241	0.1241
37	0.1240	0.1240
38	0.1165	0.1165
39	0.1118	0.1118
40	0.1114	0.1114
41	0.1104	0.1104
42	0.1057	0.1057
43	0.1055	0.1055
44	0.1037	0.1037
45	0.1027	0.1027
46	0.1020	0.1020
47	0.0929	0.0929
48	0.0892	0.0892
49	0.0872	0.0872
50	0.0854	0.0854
51	0.0832	0.0832
52	0.0810	0.0810
53	0.0778	0.0778
54	0.0721	0.0721

Stream Protection Duration

POC #9

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0661	870	870	100	Pass
0.0675	808	808	100	Pass
0.0689	757	757	100	Pass
0.0703	709	709	100	Pass
0.0717	655	655	100	Pass
0.0732	602	602	100	Pass
0.0746	572	572	100	Pass
0.0760	535	535	100	Pass
0.0774	501	501	100	Pass
0.0788	456	456	100	Pass
0.0802	420	420	100	Pass
0.0817	391	391	100	Pass
0.0831	378	378	100	Pass
0.0845	353	353	100	Pass
0.0859	328	328	100	Pass
0.0873	301	301	100	Pass

0.0888	280	280	100	Pass
0.0902	259	259	100	Pass
0.0916	246	246	100	Pass
0.0930	224	224	100	Pass
0.0944	216	216	100	Pass
0.0958	210	210	100	Pass
0.0973	196	196	100	Pass
0.0987	187	187	100	Pass
0.1001	175	175	100	Pass
0.1015	166	166	100	Pass
0.1029	154	154	100	Pass
0.1044	146	146	100	Pass
0.1058	141	141	100	Pass
0.1072	135	135	100	Pass
0.1086	130	130	100	Pass
0.1100	123	123	100	Pass
0.1114	114	114	100	Pass
0.1129	109	109	100	Pass
0.1143	99	99	100	Pass
0.1157	97	97	100	Pass
0.1171	94	94	100	Pass
0.1185	90	90	100	Pass
0.1200	87	87	100	Pass
0.1214	82	82	100	Pass
0.1228	79	79	100	Pass
0.1242	75	75	100	Pass
0.1256	71	71	100	Pass
0.1270	66	66	100	Pass
0.1285	64	64	100	Pass
0.1299	60	60	100	Pass
0.1313	56	56	100	Pass
0.1327	49	49	100	Pass
0.1341	48	48	100	Pass
0.1356	48	48	100	Pass
0.1370	46	46	100	Pass
0.1384	44	44	100	Pass
0.1398	42	42	100	Pass
0.1412	41	41	100	Pass
0.1426	37	37	100	Pass
0.1441	35	35	100	Pass
0.1455	34	34	100	Pass
0.1469	34	34	100	Pass
0.1483	27	27	100	Pass
0.1497	26	26	100	Pass
0.1512	24	24	100	Pass
0.1526	24	24	100	Pass
0.1540	24	24	100	Pass
0.1554	21	21	100	Pass
0.1568	20	20	100	Pass
0.1582	19	19	100	Pass
0.1597	16	16	100	Pass
0.1611	15	15	100	Pass
0.1625	15	15	100	Pass
0.1639	13	13	100	Pass
0.1653	12	12	100	Pass
0.1668	11	11	100	Pass
0.1682	11	11	100	Pass

0.1696	10	10	100	Pass
0.1710	10	10	100	Pass
0.1724	10	10	100	Pass
0.1738	9	9	100	Pass
0.1753	7	7	100	Pass
0.1767	7	7	100	Pass
0.1781	6	6	100	Pass
0.1795	6	6	100	Pass
0.1809	6	6	100	Pass
0.1824	6	6	100	Pass
0.1838	5	5	100	Pass
0.1852	5	5	100	Pass
0.1866	4	4	100	Pass
0.1880	4	4	100	Pass
0.1894	4	4	100	Pass
0.1909	4	4	100	Pass
0.1923	3	3	100	Pass
0.1937	3	3	100	Pass
0.1951	1	1	100	Pass
0.1965	1	1	100	Pass
0.1980	0	0	100	Pass
0.1994	0	0	0	Pass
0.2008	0	0	0	Pass
0.2022	0	0	0	Pass
0.2036	0	0	0	Pass
0.2050	0	0	0	Pass
0.2065	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #9

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 9

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	9.0666	9.0666	100.0	Pass
Feb	6.9682	6.9682	100.0	Pass
Mar	6.1510	6.1510	100.0	Pass
Apr	3.3671	3.3671	100.0	Pass
May	1.7100	1.7100	100.0	Pass
Jun	1.1048	1.1048	100.0	Pass
Jul	0.5306	0.5306	100.0	Pass
Aug	0.7800	0.7800	100.0	Pass
Sep	1.8581	1.8581	100.0	Pass
Oct	4.7578	4.7578	100.0	Pass
Nov	8.4671	8.4671	100.0	Pass
Dec	8.7481	8.7481	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.2895	0.2895	100.0	Pass

2	0.2337	0.2337	100.0	Pass
3	0.2879	0.2879	100.0	Pass
4	0.3320	0.3320	100.0	Pass
5	0.2544	0.2544	100.0	Pass
6	0.3615	0.3615	100.0	Pass
7	0.2944	0.2944	100.0	Pass
8	0.2923	0.2923	100.0	Pass
9	0.3062	0.3062	100.0	Pass
10	0.3028	0.3028	100.0	Pass
11	0.3641	0.3641	100.0	Pass
12	0.2963	0.2963	100.0	Pass
13	0.3609	0.3609	100.0	Pass
14	0.3638	0.3638	100.0	Pass
15	0.3356	0.3356	100.0	Pass
16	0.2838	0.2838	100.0	Pass
17	0.2692	0.2692	100.0	Pass
18	0.2381	0.2381	100.0	Pass
19	0.2330	0.2330	100.0	Pass
20	0.1612	0.1612	100.0	Pass
21	0.2735	0.2735	100.0	Pass
22	0.3414	0.3414	100.0	Pass
23	0.3872	0.3872	100.0	Pass
24	0.2792	0.2792	100.0	Pass
25	0.2372	0.2372	100.0	Pass
26	0.2139	0.2139	100.0	Pass
27	0.2566	0.2566	100.0	Pass
28	0.3230	0.3230	100.0	Pass
29	0.2578	0.2578	100.0	Pass
30	0.2952	0.2952	100.0	Pass
31	0.1907	0.1907	100.0	Pass
Feb1	0.2077	0.2077	100.0	Pass
2	0.1877	0.1877	100.0	Pass
3	0.1715	0.1715	100.0	Pass
4	0.1589	0.1589	100.0	Pass
5	0.2750	0.2750	100.0	Pass
6	0.1562	0.1562	100.0	Pass
7	0.2081	0.2081	100.0	Pass
8	0.1641	0.1641	100.0	Pass
9	0.1891	0.1891	100.0	Pass
10	0.2479	0.2479	100.0	Pass
11	0.3302	0.3302	100.0	Pass
12	0.2707	0.2707	100.0	Pass
13	0.2836	0.2836	100.0	Pass
14	0.3853	0.3853	100.0	Pass
15	0.3000	0.3000	100.0	Pass
16	0.3753	0.3753	100.0	Pass
17	0.3389	0.3389	100.0	Pass
18	0.2782	0.2782	100.0	Pass
19	0.2402	0.2402	100.0	Pass
20	0.2289	0.2289	100.0	Pass
21	0.1877	0.1877	100.0	Pass
22	0.2621	0.2621	100.0	Pass
23	0.2529	0.2529	100.0	Pass
24	0.2776	0.2776	100.0	Pass
25	0.2527	0.2527	100.0	Pass
26	0.2505	0.2505	100.0	Pass
27	0.2211	0.2211	100.0	Pass

28	0.2938	0.2938	100.0	Pass
29	0.2104	0.2104	100.0	Pass
Mar1	0.2054	0.2054	100.0	Pass
2	0.1713	0.1713	100.0	Pass
3	0.2306	0.2306	100.0	Pass
4	0.2436	0.2436	100.0	Pass
5	0.1962	0.1962	100.0	Pass
6	0.2446	0.2446	100.0	Pass
7	0.2370	0.2370	100.0	Pass
8	0.2336	0.2336	100.0	Pass
9	0.2343	0.2343	100.0	Pass
10	0.2077	0.2077	100.0	Pass
11	0.2221	0.2221	100.0	Pass
12	0.1976	0.1976	100.0	Pass
13	0.2355	0.2355	100.0	Pass
14	0.1922	0.1922	100.0	Pass
15	0.1577	0.1577	100.0	Pass
16	0.1492	0.1492	100.0	Pass
17	0.1984	0.1984	100.0	Pass
18	0.1277	0.1277	100.0	Pass
19	0.1796	0.1796	100.0	Pass
20	0.1484	0.1484	100.0	Pass
21	0.2391	0.2391	100.0	Pass
22	0.2706	0.2706	100.0	Pass
23	0.2340	0.2340	100.0	Pass
24	0.1588	0.1588	100.0	Pass
25	0.2243	0.2243	100.0	Pass
26	0.1716	0.1716	100.0	Pass
27	0.1600	0.1600	100.0	Pass
28	0.1793	0.1793	100.0	Pass
29	0.1639	0.1639	100.0	Pass
30	0.1267	0.1267	100.0	Pass
31	0.1020	0.1020	100.0	Pass
Apr1	0.1058	0.1058	100.0	Pass
2	0.1168	0.1168	100.0	Pass
3	0.1549	0.1549	100.0	Pass
4	0.1453	0.1453	100.0	Pass
5	0.1589	0.1589	100.0	Pass
6	0.0908	0.0908	100.0	Pass
7	0.1369	0.1369	100.0	Pass
8	0.1411	0.1411	100.0	Pass
9	0.1245	0.1245	100.0	Pass
10	0.1256	0.1256	100.0	Pass
11	0.1637	0.1637	100.0	Pass
12	0.1462	0.1462	100.0	Pass
13	0.1506	0.1506	100.0	Pass
14	0.1315	0.1315	100.0	Pass
15	0.1402	0.1402	100.0	Pass
16	0.0831	0.0831	100.0	Pass
17	0.1053	0.1053	100.0	Pass
18	0.1197	0.1197	100.0	Pass
19	0.0707	0.0707	100.0	Pass
20	0.0651	0.0651	100.0	Pass
21	0.1034	0.1034	100.0	Pass
22	0.0880	0.0880	100.0	Pass
23	0.0788	0.0788	100.0	Pass
24	0.0641	0.0641	100.0	Pass

25	0.0742	0.0742	100.0	Pass
26	0.1239	0.1239	100.0	Pass
27	0.0991	0.0991	100.0	Pass
28	0.1033	0.1033	100.0	Pass
29	0.0541	0.0541	100.0	Pass
30	0.0654	0.0654	100.0	Pass
May1	0.0978	0.0978	100.0	Pass
2	0.0749	0.0749	100.0	Pass
3	0.0780	0.0780	100.0	Pass
4	0.0635	0.0635	100.0	Pass
5	0.0602	0.0602	100.0	Pass
6	0.0506	0.0506	100.0	Pass
7	0.0655	0.0655	100.0	Pass
8	0.0421	0.0421	100.0	Pass
9	0.0559	0.0559	100.0	Pass
10	0.0453	0.0453	100.0	Pass
11	0.0422	0.0422	100.0	Pass
12	0.0598	0.0598	100.0	Pass
13	0.0642	0.0642	100.0	Pass
14	0.0628	0.0628	100.0	Pass
15	0.0446	0.0446	100.0	Pass
16	0.0546	0.0546	100.0	Pass
17	0.0458	0.0458	100.0	Pass
18	0.0708	0.0708	100.0	Pass
19	0.0397	0.0397	100.0	Pass
20	0.0373	0.0373	100.0	Pass
21	0.0381	0.0381	100.0	Pass
22	0.0456	0.0456	100.0	Pass
23	0.0411	0.0411	100.0	Pass
24	0.0432	0.0432	100.0	Pass
25	0.0367	0.0367	100.0	Pass
26	0.0615	0.0615	100.0	Pass
27	0.0496	0.0496	100.0	Pass
28	0.0529	0.0529	100.0	Pass
29	0.0721	0.0721	100.0	Pass
30	0.0482	0.0482	100.0	Pass
31	0.0523	0.0523	100.0	Pass
Jun1	0.0406	0.0406	100.0	Pass
2	0.0617	0.0617	100.0	Pass
3	0.0588	0.0588	100.0	Pass
4	0.0435	0.0435	100.0	Pass
5	0.0703	0.0703	100.0	Pass
6	0.0294	0.0294	100.0	Pass
7	0.0424	0.0424	100.0	Pass
8	0.0583	0.0583	100.0	Pass
9	0.0446	0.0446	100.0	Pass
10	0.0415	0.0415	100.0	Pass
11	0.0307	0.0307	100.0	Pass
12	0.0361	0.0361	100.0	Pass
13	0.0574	0.0574	100.0	Pass
14	0.0255	0.0255	100.0	Pass
15	0.0476	0.0476	100.0	Pass
16	0.0227	0.0227	100.0	Pass
17	0.0301	0.0301	100.0	Pass
18	0.0215	0.0215	100.0	Pass
19	0.0238	0.0238	100.0	Pass
20	0.0254	0.0254	100.0	Pass

21	0.0260	0.0260	100.0	Pass
22	0.0148	0.0148	100.0	Pass
23	0.0696	0.0696	100.0	Pass
24	0.0217	0.0217	100.0	Pass
25	0.0322	0.0322	100.0	Pass
26	0.0194	0.0194	100.0	Pass
27	0.0170	0.0170	100.0	Pass
28	0.0173	0.0173	100.0	Pass
29	0.0226	0.0226	100.0	Pass
30	0.0496	0.0496	100.0	Pass
Jul11	0.0137	0.0137	100.0	Pass
2	0.0111	0.0111	100.0	Pass
3	0.0116	0.0116	100.0	Pass
4	0.0271	0.0271	100.0	Pass
5	0.0206	0.0206	100.0	Pass
6	0.0157	0.0157	100.0	Pass
7	0.0309	0.0309	100.0	Pass
8	0.0186	0.0186	100.0	Pass
9	0.0366	0.0366	100.0	Pass
10	0.0246	0.0246	100.0	Pass
11	0.0507	0.0507	100.0	Pass
12	0.0289	0.0289	100.0	Pass
13	0.0206	0.0206	100.0	Pass
14	0.0292	0.0292	100.0	Pass
15	0.0123	0.0123	100.0	Pass
16	0.0077	0.0077	100.0	Pass
17	0.0245	0.0245	100.0	Pass
18	0.0093	0.0093	100.0	Pass
19	0.0105	0.0105	100.0	Pass
20	0.0175	0.0175	100.0	Pass
21	0.0145	0.0145	100.0	Pass
22	0.0019	0.0019	100.0	Pass
23	0.0042	0.0042	100.0	Pass
24	0.0046	0.0046	100.0	Pass
25	0.0098	0.0098	100.0	Pass
26	0.0041	0.0041	100.0	Pass
27	0.0061	0.0061	100.0	Pass
28	0.0051	0.0051	100.0	Pass
29	0.0034	0.0034	100.0	Pass
30	0.0057	0.0057	100.0	Pass
31	0.0066	0.0066	100.0	Pass
Aug1	0.0271	0.0271	100.0	Pass
2	0.0101	0.0101	100.0	Pass
3	0.0042	0.0042	100.0	Pass
4	0.0039	0.0039	100.0	Pass
5	0.0312	0.0312	100.0	Pass
6	0.0216	0.0216	100.0	Pass
7	0.0082	0.0082	100.0	Pass
8	0.0080	0.0080	100.0	Pass
9	0.0008	0.0008	100.0	Pass
10	0.0041	0.0041	100.0	Pass
11	0.0197	0.0197	100.0	Pass
12	0.0170	0.0170	100.0	Pass
13	0.0216	0.0216	100.0	Pass
14	0.0139	0.0139	100.0	Pass
15	0.0128	0.0128	100.0	Pass
16	0.0106	0.0106	100.0	Pass

17	0.0197	0.0197	100.0	Pass
18	0.0378	0.0378	100.0	Pass
19	0.0117	0.0117	100.0	Pass
20	0.0297	0.0297	100.0	Pass
21	0.0281	0.0281	100.0	Pass
22	0.0542	0.0542	100.0	Pass
23	0.0525	0.0525	100.0	Pass
24	0.0482	0.0482	100.0	Pass
25	0.0211	0.0211	100.0	Pass
26	0.0530	0.0530	100.0	Pass
27	0.0552	0.0552	100.0	Pass
28	0.0565	0.0565	100.0	Pass
29	0.0361	0.0361	100.0	Pass
30	0.0550	0.0550	100.0	Pass
31	0.0886	0.0886	100.0	Pass
Sep1	0.0390	0.0390	100.0	Pass
2	0.0376	0.0376	100.0	Pass
3	0.0393	0.0393	100.0	Pass
4	0.0479	0.0479	100.0	Pass
5	0.0415	0.0415	100.0	Pass
6	0.0291	0.0291	100.0	Pass
7	0.0532	0.0532	100.0	Pass
8	0.0356	0.0356	100.0	Pass
9	0.0861	0.0861	100.0	Pass
10	0.0230	0.0230	100.0	Pass
11	0.0184	0.0184	100.0	Pass
12	0.0456	0.0456	100.0	Pass
13	0.0862	0.0862	100.0	Pass
14	0.0578	0.0578	100.0	Pass
15	0.0850	0.0850	100.0	Pass
16	0.0938	0.0938	100.0	Pass
17	0.1000	0.1000	100.0	Pass
18	0.0906	0.0906	100.0	Pass
19	0.0985	0.0985	100.0	Pass
20	0.0752	0.0752	100.0	Pass
21	0.1017	0.1017	100.0	Pass
22	0.0825	0.0825	100.0	Pass
23	0.0648	0.0648	100.0	Pass
24	0.0466	0.0466	100.0	Pass
25	0.0473	0.0473	100.0	Pass
26	0.0478	0.0478	100.0	Pass
27	0.0657	0.0657	100.0	Pass
28	0.0565	0.0565	100.0	Pass
29	0.0735	0.0735	100.0	Pass
30	0.0556	0.0556	100.0	Pass
Oct1	0.0400	0.0400	100.0	Pass
2	0.0925	0.0925	100.0	Pass
3	0.0843	0.0843	100.0	Pass
4	0.1046	0.1046	100.0	Pass
5	0.1118	0.1118	100.0	Pass
6	0.1230	0.1230	100.0	Pass
7	0.1585	0.1585	100.0	Pass
8	0.1328	0.1328	100.0	Pass
9	0.1048	0.1048	100.0	Pass
10	0.0861	0.0861	100.0	Pass
11	0.1531	0.1531	100.0	Pass
12	0.1079	0.1079	100.0	Pass

13	0.1448	0.1448	100.0	Pass
14	0.0896	0.0896	100.0	Pass
15	0.1015	0.1015	100.0	Pass
16	0.1356	0.1356	100.0	Pass
17	0.1252	0.1252	100.0	Pass
18	0.1974	0.1974	100.0	Pass
19	0.2458	0.2458	100.0	Pass
20	0.2142	0.2142	100.0	Pass
21	0.2578	0.2578	100.0	Pass
22	0.1627	0.1627	100.0	Pass
23	0.2513	0.2513	100.0	Pass
24	0.2244	0.2244	100.0	Pass
25	0.2029	0.2029	100.0	Pass
26	0.2410	0.2410	100.0	Pass
27	0.2104	0.2104	100.0	Pass
28	0.1953	0.1953	100.0	Pass
29	0.1677	0.1677	100.0	Pass
30	0.2357	0.2357	100.0	Pass
31	0.2062	0.2062	100.0	Pass
Nov1	0.2562	0.2562	100.0	Pass
2	0.3027	0.3027	100.0	Pass
3	0.2486	0.2486	100.0	Pass
4	0.2465	0.2465	100.0	Pass
5	0.2718	0.2718	100.0	Pass
6	0.2332	0.2332	100.0	Pass
7	0.2109	0.2109	100.0	Pass
8	0.2619	0.2619	100.0	Pass
9	0.3105	0.3105	100.0	Pass
10	0.2719	0.2719	100.0	Pass
11	0.3009	0.3009	100.0	Pass
12	0.2788	0.2788	100.0	Pass
13	0.2190	0.2190	100.0	Pass
14	0.2455	0.2455	100.0	Pass
15	0.2742	0.2742	100.0	Pass
16	0.2859	0.2859	100.0	Pass
17	0.2655	0.2655	100.0	Pass
18	0.3803	0.3803	100.0	Pass
19	0.3489	0.3489	100.0	Pass
20	0.2419	0.2419	100.0	Pass
21	0.3580	0.3580	100.0	Pass
22	0.4169	0.4169	100.0	Pass
23	0.3339	0.3339	100.0	Pass
24	0.3743	0.3743	100.0	Pass
25	0.2607	0.2607	100.0	Pass
26	0.2117	0.2117	100.0	Pass
27	0.2436	0.2436	100.0	Pass
28	0.2331	0.2331	100.0	Pass
29	0.3739	0.3739	100.0	Pass
30	0.3121	0.3121	100.0	Pass
Dec1	0.3393	0.3393	100.0	Pass
2	0.3334	0.3334	100.0	Pass
3	0.2233	0.2233	100.0	Pass
4	0.2376	0.2376	100.0	Pass
5	0.2081	0.2081	100.0	Pass
6	0.1782	0.1782	100.0	Pass
7	0.2461	0.2461	100.0	Pass
8	0.3086	0.3086	100.0	Pass

9	0.3129	0.3129	100.0	Pass
10	0.3393	0.3393	100.0	Pass
11	0.2542	0.2542	100.0	Pass
12	0.2697	0.2697	100.0	Pass
13	0.3873	0.3873	100.0	Pass
14	0.2865	0.2865	100.0	Pass
15	0.3575	0.3575	100.0	Pass
16	0.2554	0.2554	100.0	Pass
17	0.2919	0.2919	100.0	Pass
18	0.2445	0.2445	100.0	Pass
19	0.2778	0.2778	100.0	Pass
20	0.2772	0.2772	100.0	Pass
21	0.3052	0.3052	100.0	Pass
22	0.2991	0.2991	100.0	Pass
23	0.3231	0.3231	100.0	Pass
24	0.3542	0.3542	100.0	Pass
25	0.3179	0.3179	100.0	Pass
26	0.2912	0.2912	100.0	Pass
27	0.2009	0.2009	100.0	Pass
28	0.2971	0.2971	100.0	Pass
29	0.2085	0.2085	100.0	Pass
30	0.2104	0.2104	100.0	Pass
31	0.3414	0.3414	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #10
Total Pervious Area:0.08
Total Impervious Area:0.213

Mitigated Landuse Totals for POC #10
Total Pervious Area:0.08
Total Impervious Area:0.213

Flow Frequency Return Periods for Predeveloped. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.166325
5 year	0.200474
10 year	0.219146
25 year	0.239474
50 year	0.252752
100 year	0.264742

Flow Frequency Return Periods for Mitigated. POC #10

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.166325
5 year	0.200474
10 year	0.219146
25 year	0.239474
50 year	0.252752

100 year

0.264742

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #10

Year	Predeveloped	Mitigated
1956	0.182	0.182
1957	0.218	0.218
1958	0.164	0.164
1959	0.173	0.173
1960	0.181	0.181
1961	0.135	0.135
1962	0.238	0.238
1963	0.215	0.215
1964	0.182	0.182
1965	0.184	0.184
1966	0.183	0.183
1967	0.112	0.112
1968	0.173	0.173
1969	0.168	0.168
1970	0.150	0.150
1971	0.242	0.242
1972	0.207	0.207
1973	0.184	0.184
1974	0.184	0.184
1975	0.160	0.160
1976	0.197	0.197
1977	0.139	0.139
1978	0.243	0.243
1979	0.154	0.154
1980	0.140	0.140
1981	0.178	0.178
1982	0.206	0.206
1983	0.163	0.163
1984	0.155	0.155
1985	0.110	0.110
1986	0.185	0.185
1987	0.128	0.128
1988	0.197	0.197
1989	0.162	0.162
1990	0.218	0.218
1991	0.132	0.132
1992	0.105	0.105
1993	0.116	0.116
1994	0.156	0.156
1995	0.141	0.141
1996	0.174	0.174
1997	0.179	0.179
1998	0.110	0.110
1999	0.141	0.141
2000	0.129	0.129
2001	0.121	0.121
2002	0.180	0.180
2003	0.234	0.234
2004	0.214	0.214
2005	0.167	0.167
2006	0.171	0.171

2007	0.204	0.204
2008	0.101	0.101
2009	0.094	0.094

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #10

Rank	Predeveloped	Mitigated
1	0.2433	0.2433
2	0.2422	0.2422
3	0.2378	0.2378
4	0.2338	0.2338
5	0.2178	0.2178
6	0.2177	0.2177
7	0.2153	0.2153
8	0.2144	0.2144
9	0.2068	0.2068
10	0.2057	0.2057
11	0.2037	0.2037
12	0.1971	0.1971
13	0.1968	0.1968
14	0.1848	0.1848
15	0.1845	0.1845
16	0.1839	0.1839
17	0.1837	0.1837
18	0.1833	0.1833
19	0.1821	0.1821
20	0.1817	0.1817
21	0.1808	0.1808
22	0.1795	0.1795
23	0.1790	0.1790
24	0.1784	0.1784
25	0.1741	0.1741
26	0.1733	0.1733
27	0.1730	0.1730
28	0.1714	0.1714
29	0.1677	0.1677
30	0.1669	0.1669
31	0.1639	0.1639
32	0.1626	0.1626
33	0.1616	0.1616
34	0.1599	0.1599
35	0.1561	0.1561
36	0.1548	0.1548
37	0.1544	0.1544
38	0.1498	0.1498
39	0.1414	0.1414
40	0.1411	0.1411
41	0.1404	0.1404
42	0.1395	0.1395
43	0.1353	0.1353
44	0.1319	0.1319
45	0.1293	0.1293
46	0.1281	0.1281
47	0.1210	0.1210
48	0.1159	0.1159
49	0.1116	0.1116

50	0.1102	0.1102
51	0.1096	0.1096
52	0.1048	0.1048
53	0.1007	0.1007
54	0.0943	0.0943

Stream Protection Duration

POC #10

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0832	982	982	100	Pass
0.0849	905	905	100	Pass
0.0866	831	831	100	Pass
0.0883	785	785	100	Pass
0.0900	728	728	100	Pass
0.0917	669	669	100	Pass
0.0934	615	615	100	Pass
0.0952	579	579	100	Pass
0.0969	549	549	100	Pass
0.0986	503	503	100	Pass
0.1003	470	470	100	Pass
0.1020	435	435	100	Pass
0.1037	409	409	100	Pass
0.1054	386	386	100	Pass
0.1071	358	358	100	Pass
0.1089	337	337	100	Pass
0.1106	312	312	100	Pass
0.1123	295	295	100	Pass
0.1140	274	274	100	Pass
0.1157	256	256	100	Pass
0.1174	237	237	100	Pass
0.1191	227	227	100	Pass
0.1208	213	213	100	Pass
0.1226	204	204	100	Pass
0.1243	188	188	100	Pass
0.1260	180	180	100	Pass
0.1277	173	173	100	Pass
0.1294	161	161	100	Pass
0.1311	154	154	100	Pass
0.1328	145	145	100	Pass
0.1346	139	139	100	Pass
0.1363	133	133	100	Pass
0.1380	127	127	100	Pass
0.1397	119	119	100	Pass
0.1414	108	108	100	Pass
0.1431	101	101	100	Pass
0.1448	97	97	100	Pass
0.1465	93	93	100	Pass
0.1483	91	91	100	Pass
0.1500	88	88	100	Pass
0.1517	84	84	100	Pass
0.1534	80	80	100	Pass
0.1551	75	75	100	Pass

0.1568	72	72	100	Pass
0.1585	70	70	100	Pass
0.1602	66	66	100	Pass
0.1620	61	61	100	Pass
0.1637	54	54	100	Pass
0.1654	52	52	100	Pass
0.1671	50	50	100	Pass
0.1688	48	48	100	Pass
0.1705	47	47	100	Pass
0.1722	45	45	100	Pass
0.1740	43	43	100	Pass
0.1757	41	41	100	Pass
0.1774	40	40	100	Pass
0.1791	37	37	100	Pass
0.1808	34	34	100	Pass
0.1825	31	31	100	Pass
0.1842	28	28	100	Pass
0.1859	24	24	100	Pass
0.1877	24	24	100	Pass
0.1894	24	24	100	Pass
0.1911	23	23	100	Pass
0.1928	22	22	100	Pass
0.1945	20	20	100	Pass
0.1962	20	20	100	Pass
0.1979	16	16	100	Pass
0.1996	15	15	100	Pass
0.2014	15	15	100	Pass
0.2031	15	15	100	Pass
0.2048	13	13	100	Pass
0.2065	11	11	100	Pass
0.2082	10	10	100	Pass
0.2099	10	10	100	Pass
0.2116	10	10	100	Pass
0.2134	10	10	100	Pass
0.2151	9	9	100	Pass
0.2168	8	8	100	Pass
0.2185	6	6	100	Pass
0.2202	6	6	100	Pass
0.2219	6	6	100	Pass
0.2236	5	5	100	Pass
0.2253	5	5	100	Pass
0.2271	5	5	100	Pass
0.2288	5	5	100	Pass
0.2305	4	4	100	Pass
0.2322	4	4	100	Pass
0.2339	3	3	100	Pass
0.2356	3	3	100	Pass
0.2373	3	3	100	Pass
0.2390	2	2	100	Pass
0.2408	2	2	100	Pass
0.2425	1	1	100	Pass
0.2442	0	0	100	Pass
0.2459	0	0	0	Pass
0.2476	0	0	0	Pass
0.2493	0	0	0	Pass
0.2510	0	0	0	Pass
0.2528	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #10

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 10

Average Annual Volume (acft)

Month Predevel Mitigated Percent Pass/Fail

Jan	10.9843	10.9843	100.0	Pass
Feb	8.4222	8.4222	100.0	Pass
Mar	7.4469	7.4469	100.0	Pass
Apr	4.1139	4.1139	100.0	Pass
May	2.1495	2.1495	100.0	Pass
Jun	1.4086	1.4086	100.0	Pass
Jul	0.6877	0.6877	100.0	Pass
Aug	1.0224	1.0224	100.0	Pass
Sep	2.3784	2.3784	100.0	Pass
Oct	5.9524	5.9524	100.0	Pass
Nov	10.3484	10.3484	100.0	Pass
Dec	10.5979	10.5979	100.0	Pass

Day Predevel Mitigated Percent Pass/Fail

Jan1	0.3517	0.3517	100.0	Pass
2	0.2795	0.2795	100.0	Pass
3	0.3514	0.3514	100.0	Pass
4	0.4097	0.4097	100.0	Pass
5	0.3041	0.3041	100.0	Pass
6	0.4471	0.4471	100.0	Pass
7	0.3532	0.3532	100.0	Pass
8	0.3531	0.3531	100.0	Pass
9	0.3741	0.3741	100.0	Pass
10	0.3659	0.3659	100.0	Pass
11	0.4447	0.4447	100.0	Pass
12	0.3542	0.3542	100.0	Pass
13	0.4404	0.4404	100.0	Pass
14	0.4411	0.4411	100.0	Pass
15	0.4042	0.4042	100.0	Pass
16	0.3356	0.3356	100.0	Pass
17	0.3203	0.3203	100.0	Pass
18	0.2829	0.2829	100.0	Pass
19	0.2803	0.2803	100.0	Pass
20	0.1880	0.1880	100.0	Pass
21	0.3436	0.3436	100.0	Pass
22	0.4209	0.4209	100.0	Pass
23	0.4735	0.4735	100.0	Pass
24	0.3305	0.3305	100.0	Pass
25	0.2803	0.2803	100.0	Pass
26	0.2530	0.2530	100.0	Pass
27	0.3130	0.3130	100.0	Pass
28	0.3967	0.3967	100.0	Pass

29	0.3086	0.3086	100.0	Pass
30	0.3602	0.3602	100.0	Pass
31	0.2228	0.2228	100.0	Pass
Feb1	0.2493	0.2493	100.0	Pass
2	0.2267	0.2267	100.0	Pass
3	0.2057	0.2057	100.0	Pass
4	0.1906	0.1906	100.0	Pass
5	0.3427	0.3427	100.0	Pass
6	0.1816	0.1816	100.0	Pass
7	0.2549	0.2549	100.0	Pass
8	0.1965	0.1965	100.0	Pass
9	0.2326	0.2326	100.0	Pass
10	0.3078	0.3078	100.0	Pass
11	0.4072	0.4072	100.0	Pass
12	0.3245	0.3245	100.0	Pass
13	0.3452	0.3452	100.0	Pass
14	0.4776	0.4776	100.0	Pass
15	0.3572	0.3572	100.0	Pass
16	0.4595	0.4595	100.0	Pass
17	0.4085	0.4085	100.0	Pass
18	0.3274	0.3274	100.0	Pass
19	0.2840	0.2840	100.0	Pass
20	0.2725	0.2725	100.0	Pass
21	0.2233	0.2233	100.0	Pass
22	0.3209	0.3209	100.0	Pass
23	0.3069	0.3069	100.0	Pass
24	0.3375	0.3375	100.0	Pass
25	0.3038	0.3038	100.0	Pass
26	0.3001	0.3001	100.0	Pass
27	0.2636	0.2636	100.0	Pass
28	0.3543	0.3543	100.0	Pass
29	0.2526	0.2526	100.0	Pass
Mar1	0.2479	0.2479	100.0	Pass
2	0.2042	0.2042	100.0	Pass
3	0.2833	0.2833	100.0	Pass
4	0.2976	0.2976	100.0	Pass
5	0.2361	0.2361	100.0	Pass
6	0.2969	0.2969	100.0	Pass
7	0.2899	0.2899	100.0	Pass
8	0.2830	0.2830	100.0	Pass
9	0.2838	0.2838	100.0	Pass
10	0.2490	0.2490	100.0	Pass
11	0.2687	0.2687	100.0	Pass
12	0.2382	0.2382	100.0	Pass
13	0.2871	0.2871	100.0	Pass
14	0.2301	0.2301	100.0	Pass
15	0.1876	0.1876	100.0	Pass
16	0.1797	0.1797	100.0	Pass
17	0.2422	0.2422	100.0	Pass
18	0.1508	0.1508	100.0	Pass
19	0.2211	0.2211	100.0	Pass
20	0.1797	0.1797	100.0	Pass
21	0.2981	0.2981	100.0	Pass
22	0.3352	0.3352	100.0	Pass
23	0.2817	0.2817	100.0	Pass
24	0.1845	0.1845	100.0	Pass
25	0.2752	0.2752	100.0	Pass

26	0.2040	0.2040	100.0	Pass
27	0.1935	0.1935	100.0	Pass
28	0.2169	0.2169	100.0	Pass
29	0.1985	0.1985	100.0	Pass
30	0.1502	0.1502	100.0	Pass
31	0.1209	0.1209	100.0	Pass
Apr1	0.1281	0.1281	100.0	Pass
2	0.1432	0.1432	100.0	Pass
3	0.1942	0.1942	100.0	Pass
4	0.1781	0.1781	100.0	Pass
5	0.1928	0.1928	100.0	Pass
6	0.1058	0.1058	100.0	Pass
7	0.1699	0.1699	100.0	Pass
8	0.1726	0.1726	100.0	Pass
9	0.1526	0.1526	100.0	Pass
10	0.1522	0.1522	100.0	Pass
11	0.2053	0.2053	100.0	Pass
12	0.1784	0.1784	100.0	Pass
13	0.1853	0.1853	100.0	Pass
14	0.1591	0.1591	100.0	Pass
15	0.1703	0.1703	100.0	Pass
16	0.0964	0.0964	100.0	Pass
17	0.1294	0.1294	100.0	Pass
18	0.1482	0.1482	100.0	Pass
19	0.0824	0.0824	100.0	Pass
20	0.0785	0.0785	100.0	Pass
21	0.1302	0.1302	100.0	Pass
22	0.1091	0.1091	100.0	Pass
23	0.0961	0.0961	100.0	Pass
24	0.0777	0.0777	100.0	Pass
25	0.0925	0.0925	100.0	Pass
26	0.1550	0.1550	100.0	Pass
27	0.1211	0.1211	100.0	Pass
28	0.1265	0.1265	100.0	Pass
29	0.0626	0.0626	100.0	Pass
30	0.0811	0.0811	100.0	Pass
May1	0.1246	0.1246	100.0	Pass
2	0.0917	0.0917	100.0	Pass
3	0.0974	0.0974	100.0	Pass
4	0.0774	0.0774	100.0	Pass
5	0.0742	0.0742	100.0	Pass
6	0.0626	0.0626	100.0	Pass
7	0.0826	0.0826	100.0	Pass
8	0.0511	0.0511	100.0	Pass
9	0.0707	0.0707	100.0	Pass
10	0.0567	0.0567	100.0	Pass
11	0.0532	0.0532	100.0	Pass
12	0.0760	0.0760	100.0	Pass
13	0.0817	0.0817	100.0	Pass
14	0.0799	0.0799	100.0	Pass
15	0.0541	0.0541	100.0	Pass
16	0.0694	0.0694	100.0	Pass
17	0.0571	0.0571	100.0	Pass
18	0.0916	0.0916	100.0	Pass
19	0.0488	0.0488	100.0	Pass
20	0.0472	0.0472	100.0	Pass
21	0.0482	0.0482	100.0	Pass

22	0.0589	0.0589	100.0	Pass
23	0.0520	0.0520	100.0	Pass
24	0.0547	0.0547	100.0	Pass
25	0.0458	0.0458	100.0	Pass
26	0.0792	0.0792	100.0	Pass
27	0.0624	0.0624	100.0	Pass
28	0.0674	0.0674	100.0	Pass
29	0.0920	0.0920	100.0	Pass
30	0.0598	0.0598	100.0	Pass
31	0.0652	0.0652	100.0	Pass
Jun1	0.0493	0.0493	100.0	Pass
2	0.0800	0.0800	100.0	Pass
3	0.0758	0.0758	100.0	Pass
4	0.0546	0.0546	100.0	Pass
5	0.0910	0.0910	100.0	Pass
6	0.0350	0.0350	100.0	Pass
7	0.0531	0.0531	100.0	Pass
8	0.0746	0.0746	100.0	Pass
9	0.0562	0.0562	100.0	Pass
10	0.0531	0.0531	100.0	Pass
11	0.0386	0.0386	100.0	Pass
12	0.0467	0.0467	100.0	Pass
13	0.0747	0.0747	100.0	Pass
14	0.0311	0.0311	100.0	Pass
15	0.0613	0.0613	100.0	Pass
16	0.0273	0.0273	100.0	Pass
17	0.0382	0.0382	100.0	Pass
18	0.0262	0.0262	100.0	Pass
19	0.0307	0.0307	100.0	Pass
20	0.0333	0.0333	100.0	Pass
21	0.0336	0.0336	100.0	Pass
22	0.0184	0.0184	100.0	Pass
23	0.0932	0.0932	100.0	Pass
24	0.0257	0.0257	100.0	Pass
25	0.0416	0.0416	100.0	Pass
26	0.0249	0.0249	100.0	Pass
27	0.0223	0.0223	100.0	Pass
28	0.0229	0.0229	100.0	Pass
29	0.0302	0.0302	100.0	Pass
30	0.0658	0.0658	100.0	Pass
Jul1	0.0167	0.0167	100.0	Pass
2	0.0141	0.0141	100.0	Pass
3	0.0153	0.0153	100.0	Pass
4	0.0370	0.0370	100.0	Pass
5	0.0277	0.0277	100.0	Pass
6	0.0211	0.0211	100.0	Pass
7	0.0410	0.0410	100.0	Pass
8	0.0234	0.0234	100.0	Pass
9	0.0485	0.0485	100.0	Pass
10	0.0318	0.0318	100.0	Pass
11	0.0653	0.0653	100.0	Pass
12	0.0340	0.0340	100.0	Pass
13	0.0249	0.0249	100.0	Pass
14	0.0377	0.0377	100.0	Pass
15	0.0152	0.0152	100.0	Pass
16	0.0096	0.0096	100.0	Pass
17	0.0322	0.0322	100.0	Pass

18	0.0111	0.0111	100.0	Pass
19	0.0134	0.0134	100.0	Pass
20	0.0233	0.0233	100.0	Pass
21	0.0187	0.0187	100.0	Pass
22	0.0018	0.0018	100.0	Pass
23	0.0054	0.0054	100.0	Pass
24	0.0061	0.0061	100.0	Pass
25	0.0135	0.0135	100.0	Pass
26	0.0056	0.0056	100.0	Pass
27	0.0084	0.0084	100.0	Pass
28	0.0070	0.0070	100.0	Pass
29	0.0045	0.0045	100.0	Pass
30	0.0077	0.0077	100.0	Pass
31	0.0090	0.0090	100.0	Pass
Aug1	0.0370	0.0370	100.0	Pass
2	0.0130	0.0130	100.0	Pass
3	0.0050	0.0050	100.0	Pass
4	0.0050	0.0050	100.0	Pass
5	0.0422	0.0422	100.0	Pass
6	0.0284	0.0284	100.0	Pass
7	0.0103	0.0103	100.0	Pass
8	0.0104	0.0104	100.0	Pass
9	0.0008	0.0008	100.0	Pass
10	0.0054	0.0054	100.0	Pass
11	0.0269	0.0269	100.0	Pass
12	0.0231	0.0231	100.0	Pass
13	0.0291	0.0291	100.0	Pass
14	0.0180	0.0180	100.0	Pass
15	0.0163	0.0163	100.0	Pass
16	0.0138	0.0138	100.0	Pass
17	0.0267	0.0267	100.0	Pass
18	0.0516	0.0516	100.0	Pass
19	0.0146	0.0146	100.0	Pass
20	0.0401	0.0401	100.0	Pass
21	0.0372	0.0372	100.0	Pass
22	0.0723	0.0723	100.0	Pass
23	0.0684	0.0684	100.0	Pass
24	0.0602	0.0602	100.0	Pass
25	0.0248	0.0248	100.0	Pass
26	0.0700	0.0700	100.0	Pass
27	0.0718	0.0718	100.0	Pass
28	0.0724	0.0724	100.0	Pass
29	0.0457	0.0457	100.0	Pass
30	0.0727	0.0727	100.0	Pass
31	0.1159	0.1159	100.0	Pass
Sep1	0.0466	0.0466	100.0	Pass
2	0.0468	0.0468	100.0	Pass
3	0.0501	0.0501	100.0	Pass
4	0.0623	0.0623	100.0	Pass
5	0.0536	0.0536	100.0	Pass
6	0.0369	0.0369	100.0	Pass
7	0.0708	0.0708	100.0	Pass
8	0.0456	0.0456	100.0	Pass
9	0.1149	0.1149	100.0	Pass
10	0.0280	0.0280	100.0	Pass
11	0.0233	0.0233	100.0	Pass
12	0.0607	0.0607	100.0	Pass

13	0.1143	0.1143	100.0	Pass
14	0.0738	0.0738	100.0	Pass
15	0.1109	0.1109	100.0	Pass
16	0.1192	0.1192	100.0	Pass
17	0.1289	0.1289	100.0	Pass
18	0.1163	0.1163	100.0	Pass
19	0.1251	0.1251	100.0	Pass
20	0.0926	0.0926	100.0	Pass
21	0.1273	0.1273	100.0	Pass
22	0.1024	0.1024	100.0	Pass
23	0.0806	0.0806	100.0	Pass
24	0.0579	0.0579	100.0	Pass
25	0.0606	0.0606	100.0	Pass
26	0.0612	0.0612	100.0	Pass
27	0.0838	0.0838	100.0	Pass
28	0.0725	0.0725	100.0	Pass
29	0.0955	0.0955	100.0	Pass
30	0.0701	0.0701	100.0	Pass
Oct1	0.0495	0.0495	100.0	Pass
2	0.1221	0.1221	100.0	Pass
3	0.1097	0.1097	100.0	Pass
4	0.1347	0.1347	100.0	Pass
5	0.1434	0.1434	100.0	Pass
6	0.1583	0.1583	100.0	Pass
7	0.2030	0.2030	100.0	Pass
8	0.1667	0.1667	100.0	Pass
9	0.1301	0.1301	100.0	Pass
10	0.1065	0.1065	100.0	Pass
11	0.1980	0.1980	100.0	Pass
12	0.1350	0.1350	100.0	Pass
13	0.1861	0.1861	100.0	Pass
14	0.1090	0.1090	100.0	Pass
15	0.1270	0.1270	100.0	Pass
16	0.1709	0.1709	100.0	Pass
17	0.1566	0.1566	100.0	Pass
18	0.2498	0.2498	100.0	Pass
19	0.3088	0.3088	100.0	Pass
20	0.2674	0.2674	100.0	Pass
21	0.3226	0.3226	100.0	Pass
22	0.1945	0.1945	100.0	Pass
23	0.3142	0.3142	100.0	Pass
24	0.2772	0.2772	100.0	Pass
25	0.2488	0.2488	100.0	Pass
26	0.2995	0.2995	100.0	Pass
27	0.2568	0.2568	100.0	Pass
28	0.2388	0.2388	100.0	Pass
29	0.2029	0.2029	100.0	Pass
30	0.2952	0.2952	100.0	Pass
31	0.2521	0.2521	100.0	Pass
Nov1	0.3163	0.3163	100.0	Pass
2	0.3796	0.3796	100.0	Pass
3	0.3006	0.3006	100.0	Pass
4	0.3025	0.3025	100.0	Pass
5	0.3342	0.3342	100.0	Pass
6	0.2817	0.2817	100.0	Pass
7	0.2552	0.2552	100.0	Pass
8	0.3252	0.3252	100.0	Pass

9	0.3847	0.3847	100.0	Pass
10	0.3319	0.3319	100.0	Pass
11	0.3699	0.3699	100.0	Pass
12	0.3423	0.3423	100.0	Pass
13	0.2604	0.2604	100.0	Pass
14	0.3006	0.3006	100.0	Pass
15	0.3371	0.3371	100.0	Pass
16	0.3519	0.3519	100.0	Pass
17	0.3233	0.3233	100.0	Pass
18	0.4715	0.4715	100.0	Pass
19	0.4251	0.4251	100.0	Pass
20	0.2857	0.2857	100.0	Pass
21	0.4405	0.4405	100.0	Pass
22	0.5181	0.5181	100.0	Pass
23	0.4011	0.4011	100.0	Pass
24	0.4560	0.4560	100.0	Pass
25	0.3062	0.3062	100.0	Pass
26	0.2488	0.2488	100.0	Pass
27	0.2970	0.2970	100.0	Pass
28	0.2836	0.2836	100.0	Pass
29	0.4658	0.4658	100.0	Pass
30	0.3771	0.3771	100.0	Pass
Dec1	0.4144	0.4144	100.0	Pass
2	0.4032	0.4032	100.0	Pass
3	0.2622	0.2622	100.0	Pass
4	0.2870	0.2870	100.0	Pass
5	0.2480	0.2480	100.0	Pass
6	0.2142	0.2142	100.0	Pass
7	0.3047	0.3047	100.0	Pass
8	0.3825	0.3825	100.0	Pass
9	0.3821	0.3821	100.0	Pass
10	0.4130	0.4130	100.0	Pass
11	0.3039	0.3039	100.0	Pass
12	0.3270	0.3270	100.0	Pass
13	0.4812	0.4812	100.0	Pass
14	0.3406	0.3406	100.0	Pass
15	0.4389	0.4389	100.0	Pass
16	0.3012	0.3012	100.0	Pass
17	0.3546	0.3546	100.0	Pass
18	0.2932	0.2932	100.0	Pass
19	0.3408	0.3408	100.0	Pass
20	0.3358	0.3358	100.0	Pass
21	0.3697	0.3697	100.0	Pass
22	0.3634	0.3634	100.0	Pass
23	0.3941	0.3941	100.0	Pass
24	0.4351	0.4351	100.0	Pass
25	0.3815	0.3815	100.0	Pass
26	0.3483	0.3483	100.0	Pass
27	0.2360	0.2360	100.0	Pass
28	0.3653	0.3653	100.0	Pass
29	0.2457	0.2457	100.0	Pass
30	0.2538	0.2538	100.0	Pass
31	0.4231	0.4231	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #11

Total Pervious Area:0.09

Total Impervious Area:0.22

Mitigated Landuse Totals for POC #11

Total Pervious Area:0.09

Total Impervious Area:0.22

Flow Frequency Return Periods for Predeveloped. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.174217
5 year	0.210373
10 year	0.230169
25 year	0.251739
50 year	0.265838
100 year	0.278576

Flow Frequency Return Periods for Mitigated. POC #11

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.174217
5 year	0.210373
10 year	0.230169
25 year	0.251739
50 year	0.265838
100 year	0.278576

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #11

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.191	0.191
1957	0.228	0.228
1958	0.171	0.171
1959	0.182	0.182
1960	0.190	0.190
1961	0.141	0.141
1962	0.250	0.250
1963	0.226	0.226
1964	0.191	0.191
1965	0.193	0.193
1966	0.193	0.193
1967	0.117	0.117
1968	0.182	0.182
1969	0.176	0.176
1970	0.156	0.156
1971	0.255	0.255
1972	0.218	0.218
1973	0.193	0.193
1974	0.193	0.193
1975	0.168	0.168
1976	0.207	0.207

1977	0.146	0.146
1978	0.255	0.255
1979	0.162	0.162
1980	0.147	0.147
1981	0.187	0.187
1982	0.215	0.215
1983	0.170	0.170
1984	0.162	0.162
1985	0.114	0.114
1986	0.194	0.194
1987	0.134	0.134
1988	0.207	0.207
1989	0.169	0.169
1990	0.229	0.229
1991	0.138	0.138
1992	0.109	0.109
1993	0.121	0.121
1994	0.164	0.164
1995	0.146	0.146
1996	0.181	0.181
1997	0.187	0.187
1998	0.115	0.115
1999	0.148	0.148
2000	0.135	0.135
2001	0.126	0.126
2002	0.186	0.186
2003	0.246	0.246
2004	0.225	0.225
2005	0.175	0.175
2006	0.180	0.180
2007	0.214	0.214
2008	0.105	0.105
2009	0.098	0.098

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #11

Rank	Predeveloped	Mitigated
1	0.2551	0.2551
2	0.2545	0.2545
3	0.2501	0.2501
4	0.2460	0.2460
5	0.2288	0.2288
6	0.2284	0.2284
7	0.2263	0.2263
8	0.2251	0.2251
9	0.2177	0.2177
10	0.2153	0.2153
11	0.2141	0.2141
12	0.2068	0.2068
13	0.2067	0.2067
14	0.1938	0.1938
15	0.1934	0.1934
16	0.1933	0.1933
17	0.1928	0.1928
18	0.1927	0.1927
19	0.1911	0.1911

20	0.1907	0.1907
21	0.1901	0.1901
22	0.1873	0.1873
23	0.1868	0.1868
24	0.1858	0.1858
25	0.1819	0.1819
26	0.1818	0.1818
27	0.1810	0.1810
28	0.1799	0.1799
29	0.1764	0.1764
30	0.1750	0.1750
31	0.1714	0.1714
32	0.1703	0.1703
33	0.1693	0.1693
34	0.1676	0.1676
35	0.1635	0.1635
36	0.1624	0.1624
37	0.1620	0.1620
38	0.1563	0.1563
39	0.1480	0.1480
40	0.1470	0.1470
41	0.1464	0.1464
42	0.1460	0.1460
43	0.1409	0.1409
44	0.1383	0.1383
45	0.1355	0.1355
46	0.1342	0.1342
47	0.1261	0.1261
48	0.1208	0.1208
49	0.1166	0.1166
50	0.1149	0.1149
51	0.1140	0.1140
52	0.1093	0.1093
53	0.1050	0.1050
54	0.0982	0.0982

Stream Protection Duration

POC #11

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0871	962	962	100	Pass
0.0889	888	888	100	Pass
0.0907	819	819	100	Pass
0.0925	775	775	100	Pass
0.0943	721	721	100	Pass
0.0961	660	660	100	Pass
0.0979	606	606	100	Pass
0.0997	572	572	100	Pass
0.1016	539	539	100	Pass
0.1034	496	496	100	Pass
0.1052	463	463	100	Pass
0.1070	428	428	100	Pass
0.1088	403	403	100	Pass

0.1106	384	384	100	Pass
0.1124	353	353	100	Pass
0.1142	333	333	100	Pass
0.1160	307	307	100	Pass
0.1178	288	288	100	Pass
0.1196	269	269	100	Pass
0.1214	250	250	100	Pass
0.1232	232	232	100	Pass
0.1250	218	218	100	Pass
0.1268	211	211	100	Pass
0.1286	201	201	100	Pass
0.1304	188	188	100	Pass
0.1322	176	176	100	Pass
0.1340	169	169	100	Pass
0.1359	161	161	100	Pass
0.1377	152	152	100	Pass
0.1395	143	143	100	Pass
0.1413	136	136	100	Pass
0.1431	132	132	100	Pass
0.1449	127	127	100	Pass
0.1467	116	116	100	Pass
0.1485	107	107	100	Pass
0.1503	101	101	100	Pass
0.1521	95	95	100	Pass
0.1539	93	93	100	Pass
0.1557	90	90	100	Pass
0.1575	87	87	100	Pass
0.1593	81	81	100	Pass
0.1611	80	80	100	Pass
0.1629	74	74	100	Pass
0.1647	72	72	100	Pass
0.1665	69	69	100	Pass
0.1683	65	65	100	Pass
0.1702	61	61	100	Pass
0.1720	53	53	100	Pass
0.1738	51	51	100	Pass
0.1756	50	50	100	Pass
0.1774	48	48	100	Pass
0.1792	48	48	100	Pass
0.1810	45	45	100	Pass
0.1828	42	42	100	Pass
0.1846	41	41	100	Pass
0.1864	38	38	100	Pass
0.1882	35	35	100	Pass
0.1900	35	35	100	Pass
0.1918	31	31	100	Pass
0.1936	27	27	100	Pass
0.1954	24	24	100	Pass
0.1972	24	24	100	Pass
0.1990	24	24	100	Pass
0.2008	23	23	100	Pass
0.2027	22	22	100	Pass
0.2045	20	20	100	Pass
0.2063	19	19	100	Pass
0.2081	16	16	100	Pass
0.2099	15	15	100	Pass
0.2117	15	15	100	Pass

0.2135	15	15	100	Pass
0.2153	13	13	100	Pass
0.2171	11	11	100	Pass
0.2189	10	10	100	Pass
0.2207	10	10	100	Pass
0.2225	10	10	100	Pass
0.2243	10	10	100	Pass
0.2261	9	9	100	Pass
0.2279	8	8	100	Pass
0.2297	6	6	100	Pass
0.2315	6	6	100	Pass
0.2333	6	6	100	Pass
0.2351	5	5	100	Pass
0.2370	5	5	100	Pass
0.2388	5	5	100	Pass
0.2406	5	5	100	Pass
0.2424	4	4	100	Pass
0.2442	4	4	100	Pass
0.2460	4	4	100	Pass
0.2478	3	3	100	Pass
0.2496	3	3	100	Pass
0.2514	2	2	100	Pass
0.2532	2	2	100	Pass
0.2550	1	1	100	Pass
0.2568	0	0	100	Pass
0.2586	0	0	0	Pass
0.2604	0	0	0	Pass
0.2622	0	0	0	Pass
0.2640	0	0	0	Pass
0.2658	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #11
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 11
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	11.5746	11.5746	100.0	Pass
Feb	8.8782	8.8782	100.0	Pass
Mar	7.8480	7.8480	100.0	Pass
Apr	4.3292	4.3292	100.0	Pass
May	2.2519	2.2519	100.0	Pass
Jun	1.4725	1.4725	100.0	Pass
Jul	0.7171	0.7171	100.0	Pass
Aug	1.0643	1.0643	100.0	Pass
Sep	2.4848	2.4848	100.0	Pass
Oct	6.2405	6.2405	100.0	Pass
Nov	10.8893	10.8893	100.0	Pass
Dec	11.1676	11.1676	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3704	0.3704	100.0	Pass
2	0.2951	0.2951	100.0	Pass
3	0.3698	0.3698	100.0	Pass
4	0.4305	0.4305	100.0	Pass
5	0.3211	0.3211	100.0	Pass
6	0.4696	0.4696	100.0	Pass
7	0.3727	0.3727	100.0	Pass
8	0.3722	0.3722	100.0	Pass
9	0.3937	0.3937	100.0	Pass
10	0.3857	0.3857	100.0	Pass
11	0.4680	0.4680	100.0	Pass
12	0.3741	0.3741	100.0	Pass
13	0.4635	0.4635	100.0	Pass
14	0.4648	0.4648	100.0	Pass
15	0.4264	0.4264	100.0	Pass
16	0.3550	0.3550	100.0	Pass
17	0.3385	0.3385	100.0	Pass
18	0.2991	0.2991	100.0	Pass
19	0.2957	0.2957	100.0	Pass
20	0.1993	0.1993	100.0	Pass
21	0.3600	0.3600	100.0	Pass
22	0.4423	0.4423	100.0	Pass
23	0.4982	0.4982	100.0	Pass
24	0.3495	0.3495	100.0	Pass
25	0.2966	0.2966	100.0	Pass
26	0.2676	0.2676	100.0	Pass
27	0.3295	0.3295	100.0	Pass
28	0.4171	0.4171	100.0	Pass
29	0.3258	0.3258	100.0	Pass
30	0.3791	0.3791	100.0	Pass
31	0.2361	0.2361	100.0	Pass
Feb1	0.2631	0.2631	100.0	Pass
2	0.2390	0.2390	100.0	Pass
3	0.2171	0.2171	100.0	Pass
4	0.2012	0.2012	100.0	Pass
5	0.3595	0.3595	100.0	Pass
6	0.1927	0.1927	100.0	Pass
7	0.2682	0.2682	100.0	Pass
8	0.2075	0.2075	100.0	Pass
9	0.2445	0.2445	100.0	Pass
10	0.3231	0.3231	100.0	Pass
11	0.4279	0.4279	100.0	Pass
12	0.3425	0.3425	100.0	Pass
13	0.3635	0.3635	100.0	Pass
14	0.5015	0.5015	100.0	Pass
15	0.3774	0.3774	100.0	Pass
16	0.4834	0.4834	100.0	Pass
17	0.4308	0.4308	100.0	Pass
18	0.3466	0.3466	100.0	Pass
19	0.3004	0.3004	100.0	Pass
20	0.2879	0.2879	100.0	Pass
21	0.2360	0.2360	100.0	Pass
22	0.3376	0.3376	100.0	Pass
23	0.3233	0.3233	100.0	Pass
24	0.3555	0.3555	100.0	Pass

25	0.3205	0.3205	100.0	Pass
26	0.3168	0.3168	100.0	Pass
27	0.2785	0.2785	100.0	Pass
28	0.3736	0.3736	100.0	Pass
29	0.2666	0.2666	100.0	Pass
Mar1	0.2614	0.2614	100.0	Pass
2	0.2157	0.2157	100.0	Pass
3	0.2979	0.2979	100.0	Pass
4	0.3132	0.3132	100.0	Pass
5	0.2490	0.2490	100.0	Pass
6	0.3128	0.3128	100.0	Pass
7	0.3050	0.3050	100.0	Pass
8	0.2982	0.2982	100.0	Pass
9	0.2991	0.2991	100.0	Pass
10	0.2628	0.2628	100.0	Pass
11	0.2832	0.2832	100.0	Pass
12	0.2512	0.2512	100.0	Pass
13	0.3023	0.3023	100.0	Pass
14	0.2429	0.2429	100.0	Pass
15	0.1983	0.1983	100.0	Pass
16	0.1895	0.1895	100.0	Pass
17	0.2549	0.2549	100.0	Pass
18	0.1596	0.1596	100.0	Pass
19	0.2324	0.2324	100.0	Pass
20	0.1894	0.1894	100.0	Pass
21	0.3127	0.3127	100.0	Pass
22	0.3520	0.3520	100.0	Pass
23	0.2972	0.2972	100.0	Pass
24	0.1957	0.1957	100.0	Pass
25	0.2894	0.2894	100.0	Pass
26	0.2156	0.2156	100.0	Pass
27	0.2039	0.2039	100.0	Pass
28	0.2286	0.2286	100.0	Pass
29	0.2092	0.2092	100.0	Pass
30	0.1588	0.1588	100.0	Pass
31	0.1279	0.1279	100.0	Pass
Apr1	0.1350	0.1350	100.0	Pass
2	0.1506	0.1506	100.0	Pass
3	0.2035	0.2035	100.0	Pass
4	0.1873	0.1873	100.0	Pass
5	0.2031	0.2031	100.0	Pass
6	0.1122	0.1122	100.0	Pass
7	0.1783	0.1783	100.0	Pass
8	0.1816	0.1816	100.0	Pass
9	0.1605	0.1605	100.0	Pass
10	0.1604	0.1604	100.0	Pass
11	0.2152	0.2152	100.0	Pass
12	0.1877	0.1877	100.0	Pass
13	0.1948	0.1948	100.0	Pass
14	0.1677	0.1677	100.0	Pass
15	0.1794	0.1794	100.0	Pass
16	0.1023	0.1023	100.0	Pass
17	0.1360	0.1360	100.0	Pass
18	0.1556	0.1556	100.0	Pass
19	0.0873	0.0873	100.0	Pass
20	0.0828	0.0828	100.0	Pass
21	0.1363	0.1363	100.0	Pass

22	0.1145	0.1145	100.0	Pass
23	0.1011	0.1011	100.0	Pass
24	0.0818	0.0818	100.0	Pass
25	0.0970	0.0970	100.0	Pass
26	0.1625	0.1625	100.0	Pass
27	0.1274	0.1274	100.0	Pass
28	0.1331	0.1331	100.0	Pass
29	0.0665	0.0665	100.0	Pass
30	0.0851	0.0851	100.0	Pass
May1	0.1303	0.1303	100.0	Pass
2	0.0965	0.0965	100.0	Pass
3	0.1021	0.1021	100.0	Pass
4	0.0815	0.0815	100.0	Pass
5	0.0780	0.0780	100.0	Pass
6	0.0658	0.0658	100.0	Pass
7	0.0865	0.0865	100.0	Pass
8	0.0539	0.0539	100.0	Pass
9	0.0740	0.0740	100.0	Pass
10	0.0595	0.0595	100.0	Pass
11	0.0558	0.0558	100.0	Pass
12	0.0795	0.0795	100.0	Pass
13	0.0854	0.0854	100.0	Pass
14	0.0835	0.0835	100.0	Pass
15	0.0570	0.0570	100.0	Pass
16	0.0725	0.0725	100.0	Pass
17	0.0599	0.0599	100.0	Pass
18	0.0956	0.0956	100.0	Pass
19	0.0513	0.0513	100.0	Pass
20	0.0494	0.0494	100.0	Pass
21	0.0504	0.0504	100.0	Pass
22	0.0615	0.0615	100.0	Pass
23	0.0544	0.0544	100.0	Pass
24	0.0572	0.0572	100.0	Pass
25	0.0481	0.0481	100.0	Pass
26	0.0827	0.0827	100.0	Pass
27	0.0654	0.0654	100.0	Pass
28	0.0705	0.0705	100.0	Pass
29	0.0961	0.0961	100.0	Pass
30	0.0628	0.0628	100.0	Pass
31	0.0684	0.0684	100.0	Pass
Jun1	0.0520	0.0520	100.0	Pass
2	0.0834	0.0834	100.0	Pass
3	0.0791	0.0791	100.0	Pass
4	0.0572	0.0572	100.0	Pass
5	0.0949	0.0949	100.0	Pass
6	0.0370	0.0370	100.0	Pass
7	0.0557	0.0557	100.0	Pass
8	0.0779	0.0779	100.0	Pass
9	0.0588	0.0588	100.0	Pass
10	0.0555	0.0555	100.0	Pass
11	0.0405	0.0405	100.0	Pass
12	0.0487	0.0487	100.0	Pass
13	0.0778	0.0778	100.0	Pass
14	0.0327	0.0327	100.0	Pass
15	0.0640	0.0640	100.0	Pass
16	0.0288	0.0288	100.0	Pass
17	0.0400	0.0400	100.0	Pass

18	0.0276	0.0276	100.0	Pass
19	0.0320	0.0320	100.0	Pass
20	0.0347	0.0347	100.0	Pass
21	0.0350	0.0350	100.0	Pass
22	0.0193	0.0193	100.0	Pass
23	0.0968	0.0968	100.0	Pass
24	0.0272	0.0272	100.0	Pass
25	0.0434	0.0434	100.0	Pass
26	0.0260	0.0260	100.0	Pass
27	0.0232	0.0232	100.0	Pass
28	0.0238	0.0238	100.0	Pass
29	0.0313	0.0313	100.0	Pass
30	0.0684	0.0684	100.0	Pass
Jul1	0.0176	0.0176	100.0	Pass
2	0.0148	0.0148	100.0	Pass
3	0.0159	0.0159	100.0	Pass
4	0.0383	0.0383	100.0	Pass
5	0.0288	0.0288	100.0	Pass
6	0.0218	0.0218	100.0	Pass
7	0.0426	0.0426	100.0	Pass
8	0.0245	0.0245	100.0	Pass
9	0.0504	0.0504	100.0	Pass
10	0.0332	0.0332	100.0	Pass
11	0.0682	0.0682	100.0	Pass
12	0.0360	0.0360	100.0	Pass
13	0.0262	0.0262	100.0	Pass
14	0.0394	0.0394	100.0	Pass
15	0.0160	0.0160	100.0	Pass
16	0.0100	0.0100	100.0	Pass
17	0.0335	0.0335	100.0	Pass
18	0.0117	0.0117	100.0	Pass
19	0.0140	0.0140	100.0	Pass
20	0.0242	0.0242	100.0	Pass
21	0.0195	0.0195	100.0	Pass
22	0.0020	0.0020	100.0	Pass
23	0.0056	0.0056	100.0	Pass
24	0.0063	0.0063	100.0	Pass
25	0.0139	0.0139	100.0	Pass
26	0.0057	0.0057	100.0	Pass
27	0.0087	0.0087	100.0	Pass
28	0.0072	0.0072	100.0	Pass
29	0.0047	0.0047	100.0	Pass
30	0.0080	0.0080	100.0	Pass
31	0.0093	0.0093	100.0	Pass
Aug1	0.0383	0.0383	100.0	Pass
2	0.0136	0.0136	100.0	Pass
3	0.0053	0.0053	100.0	Pass
4	0.0052	0.0052	100.0	Pass
5	0.0437	0.0437	100.0	Pass
6	0.0296	0.0296	100.0	Pass
7	0.0108	0.0108	100.0	Pass
8	0.0108	0.0108	100.0	Pass
9	0.0009	0.0009	100.0	Pass
10	0.0056	0.0056	100.0	Pass
11	0.0279	0.0279	100.0	Pass
12	0.0239	0.0239	100.0	Pass
13	0.0302	0.0302	100.0	Pass

14	0.0188	0.0188	100.0	Pass
15	0.0170	0.0170	100.0	Pass
16	0.0144	0.0144	100.0	Pass
17	0.0276	0.0276	100.0	Pass
18	0.0534	0.0534	100.0	Pass
19	0.0154	0.0154	100.0	Pass
20	0.0416	0.0416	100.0	Pass
21	0.0387	0.0387	100.0	Pass
22	0.0750	0.0750	100.0	Pass
23	0.0712	0.0712	100.0	Pass
24	0.0631	0.0631	100.0	Pass
25	0.0263	0.0263	100.0	Pass
26	0.0728	0.0728	100.0	Pass
27	0.0748	0.0748	100.0	Pass
28	0.0756	0.0756	100.0	Pass
29	0.0478	0.0478	100.0	Pass
30	0.0756	0.0756	100.0	Pass
31	0.1207	0.1207	100.0	Pass
Sep1	0.0492	0.0492	100.0	Pass
2	0.0491	0.0491	100.0	Pass
3	0.0524	0.0524	100.0	Pass
4	0.0650	0.0650	100.0	Pass
5	0.0559	0.0559	100.0	Pass
6	0.0386	0.0386	100.0	Pass
7	0.0735	0.0735	100.0	Pass
8	0.0477	0.0477	100.0	Pass
9	0.1193	0.1193	100.0	Pass
10	0.0295	0.0295	100.0	Pass
11	0.0244	0.0244	100.0	Pass
12	0.0630	0.0630	100.0	Pass
13	0.1188	0.1188	100.0	Pass
14	0.0772	0.0772	100.0	Pass
15	0.1156	0.1156	100.0	Pass
16	0.1247	0.1247	100.0	Pass
17	0.1346	0.1346	100.0	Pass
18	0.1214	0.1214	100.0	Pass
19	0.1308	0.1308	100.0	Pass
20	0.0974	0.0974	100.0	Pass
21	0.1334	0.1334	100.0	Pass
22	0.1075	0.1075	100.0	Pass
23	0.0846	0.0846	100.0	Pass
24	0.0608	0.0608	100.0	Pass
25	0.0633	0.0633	100.0	Pass
26	0.0639	0.0639	100.0	Pass
27	0.0876	0.0876	100.0	Pass
28	0.0757	0.0757	100.0	Pass
29	0.0996	0.0996	100.0	Pass
30	0.0734	0.0734	100.0	Pass
Oct1	0.0520	0.0520	100.0	Pass
2	0.1270	0.1270	100.0	Pass
3	0.1143	0.1143	100.0	Pass
4	0.1406	0.1406	100.0	Pass
5	0.1498	0.1498	100.0	Pass
6	0.1652	0.1652	100.0	Pass
7	0.2121	0.2121	100.0	Pass
8	0.1747	0.1747	100.0	Pass
9	0.1366	0.1366	100.0	Pass

10	0.1119	0.1119	100.0	Pass
11	0.2065	0.2065	100.0	Pass
12	0.1416	0.1416	100.0	Pass
13	0.1943	0.1943	100.0	Pass
14	0.1148	0.1148	100.0	Pass
15	0.1332	0.1332	100.0	Pass
16	0.1790	0.1790	100.0	Pass
17	0.1642	0.1642	100.0	Pass
18	0.2615	0.2615	100.0	Pass
19	0.3236	0.3236	100.0	Pass
20	0.2804	0.2804	100.0	Pass
21	0.3382	0.3382	100.0	Pass
22	0.2054	0.2054	100.0	Pass
23	0.3294	0.3294	100.0	Pass
24	0.2912	0.2912	100.0	Pass
25	0.2617	0.2617	100.0	Pass
26	0.3143	0.3143	100.0	Pass
27	0.2703	0.2703	100.0	Pass
28	0.2512	0.2512	100.0	Pass
29	0.2138	0.2138	100.0	Pass
30	0.3094	0.3094	100.0	Pass
31	0.2652	0.2652	100.0	Pass
Nov1	0.3323	0.3323	100.0	Pass
2	0.3979	0.3979	100.0	Pass
3	0.3169	0.3169	100.0	Pass
4	0.3181	0.3181	100.0	Pass
5	0.3513	0.3513	100.0	Pass
6	0.2970	0.2970	100.0	Pass
7	0.2689	0.2689	100.0	Pass
8	0.3414	0.3414	100.0	Pass
9	0.4039	0.4039	100.0	Pass
10	0.3493	0.3493	100.0	Pass
11	0.3889	0.3889	100.0	Pass
12	0.3599	0.3599	100.0	Pass
13	0.2752	0.2752	100.0	Pass
14	0.3162	0.3162	100.0	Pass
15	0.3544	0.3544	100.0	Pass
16	0.3698	0.3698	100.0	Pass
17	0.3404	0.3404	100.0	Pass
18	0.4951	0.4951	100.0	Pass
19	0.4475	0.4475	100.0	Pass
20	0.3023	0.3023	100.0	Pass
21	0.4631	0.4631	100.0	Pass
22	0.5437	0.5437	100.0	Pass
23	0.4232	0.4232	100.0	Pass
24	0.4801	0.4801	100.0	Pass
25	0.3243	0.3243	100.0	Pass
26	0.2634	0.2634	100.0	Pass
27	0.3127	0.3127	100.0	Pass
28	0.2987	0.2987	100.0	Pass
29	0.4887	0.4887	100.0	Pass
30	0.3976	0.3976	100.0	Pass
Dec1	0.4361	0.4361	100.0	Pass
2	0.4250	0.4250	100.0	Pass
3	0.2777	0.2777	100.0	Pass
4	0.3026	0.3026	100.0	Pass
5	0.2620	0.2620	100.0	Pass

6	0.2260	0.2260	100.0	Pass
7	0.3200	0.3200	100.0	Pass
8	0.4016	0.4016	100.0	Pass
9	0.4021	0.4021	100.0	Pass
10	0.4349	0.4349	100.0	Pass
11	0.3209	0.3209	100.0	Pass
12	0.3445	0.3445	100.0	Pass
13	0.5050	0.5050	100.0	Pass
14	0.3600	0.3600	100.0	Pass
15	0.4615	0.4615	100.0	Pass
16	0.3188	0.3188	100.0	Pass
17	0.3735	0.3735	100.0	Pass
18	0.3095	0.3095	100.0	Pass
19	0.3584	0.3584	100.0	Pass
20	0.3539	0.3539	100.0	Pass
21	0.3896	0.3896	100.0	Pass
22	0.3827	0.3827	100.0	Pass
23	0.4148	0.4148	100.0	Pass
24	0.4575	0.4575	100.0	Pass
25	0.4026	0.4026	100.0	Pass
26	0.3678	0.3678	100.0	Pass
27	0.2499	0.2499	100.0	Pass
28	0.3840	0.3840	100.0	Pass
29	0.2601	0.2601	100.0	Pass
30	0.2676	0.2676	100.0	Pass
31	0.4442	0.4442	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #12

Total Pervious Area:0.062
Total Impervious Area:0.249

Mitigated Landuse Totals for POC #12

Total Pervious Area:0.062
Total Impervious Area:0.249

Flow Frequency Return Periods for Predeveloped. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.184108
5 year	0.22027
10 year	0.239937
25 year	0.261273
50 year	0.275169
100 year	0.287693

Flow Frequency Return Periods for Mitigated. POC #12

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.184108
5 year	0.22027

10 year	0.239937
25 year	0.261273
50 year	0.275169
100 year	0.287693

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #12

Year	Predeveloped	Mitigated
1956	0.198	0.198
1957	0.240	0.240
1958	0.183	0.183
1959	0.189	0.189
1960	0.197	0.197
1961	0.153	0.153
1962	0.259	0.259
1963	0.235	0.235
1964	0.202	0.202
1965	0.202	0.202
1966	0.200	0.200
1967	0.125	0.125
1968	0.190	0.190
1969	0.183	0.183
1970	0.168	0.168
1971	0.264	0.264
1972	0.224	0.224
1973	0.204	0.204
1974	0.200	0.200
1975	0.176	0.176
1976	0.216	0.216
1977	0.155	0.155
1978	0.268	0.268
1979	0.170	0.170
1980	0.156	0.156
1981	0.198	0.198
1982	0.228	0.228
1983	0.180	0.180
1984	0.170	0.170
1985	0.125	0.125
1986	0.203	0.203
1987	0.142	0.142
1988	0.217	0.217
1989	0.179	0.179
1990	0.237	0.237
1991	0.148	0.148
1992	0.118	0.118
1993	0.131	0.131
1994	0.173	0.173
1995	0.162	0.162
1996	0.199	0.199
1997	0.199	0.199
1998	0.124	0.124
1999	0.157	0.157
2000	0.143	0.143
2001	0.137	0.137
2002	0.208	0.208
2003	0.254	0.254

2004	0.235	0.235
2005	0.184	0.184
2006	0.188	0.188
2007	0.223	0.223
2008	0.113	0.113
2009	0.107	0.107

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #12

Rank	Predeveloped	Mitigated
1	0.2684	0.2684
2	0.2643	0.2643
3	0.2587	0.2587
4	0.2541	0.2541
5	0.2401	0.2401
6	0.2374	0.2374
7	0.2352	0.2352
8	0.2347	0.2347
9	0.2280	0.2280
10	0.2244	0.2244
11	0.2225	0.2225
12	0.2167	0.2167
13	0.2158	0.2158
14	0.2085	0.2085
15	0.2038	0.2038
16	0.2032	0.2032
17	0.2018	0.2018
18	0.2017	0.2017
19	0.2002	0.2002
20	0.1998	0.1998
21	0.1990	0.1990
22	0.1986	0.1986
23	0.1976	0.1976
24	0.1975	0.1975
25	0.1969	0.1969
26	0.1903	0.1903
27	0.1891	0.1891
28	0.1882	0.1882
29	0.1841	0.1841
30	0.1826	0.1826
31	0.1826	0.1826
32	0.1799	0.1799
33	0.1790	0.1790
34	0.1760	0.1760
35	0.1727	0.1727
36	0.1701	0.1701
37	0.1698	0.1698
38	0.1679	0.1679
39	0.1619	0.1619
40	0.1570	0.1570
41	0.1556	0.1556
42	0.1547	0.1547
43	0.1530	0.1530
44	0.1482	0.1482
45	0.1432	0.1432
46	0.1416	0.1416

47	0.1368	0.1368
48	0.1308	0.1308
49	0.1248	0.1248
50	0.1246	0.1246
51	0.1238	0.1238
52	0.1179	0.1179
53	0.1133	0.1133
54	0.1068	0.1068

Stream Protection Duration

POC #12

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0921	1041	1041	100	Pass
0.0939	972	972	100	Pass
0.0958	903	903	100	Pass
0.0976	840	840	100	Pass
0.0995	786	786	100	Pass
0.1013	725	725	100	Pass
0.1032	667	667	100	Pass
0.1050	621	621	100	Pass
0.1069	577	577	100	Pass
0.1087	537	537	100	Pass
0.1106	502	502	100	Pass
0.1124	469	469	100	Pass
0.1142	431	431	100	Pass
0.1161	408	408	100	Pass
0.1179	383	383	100	Pass
0.1198	352	352	100	Pass
0.1216	333	333	100	Pass
0.1235	311	311	100	Pass
0.1253	289	289	100	Pass
0.1272	274	274	100	Pass
0.1290	252	252	100	Pass
0.1309	242	242	100	Pass
0.1327	229	229	100	Pass
0.1346	219	219	100	Pass
0.1364	201	201	100	Pass
0.1383	188	188	100	Pass
0.1401	181	181	100	Pass
0.1420	171	171	100	Pass
0.1438	162	162	100	Pass
0.1457	157	157	100	Pass
0.1475	149	149	100	Pass
0.1494	143	143	100	Pass
0.1512	134	134	100	Pass
0.1531	128	128	100	Pass
0.1549	116	116	100	Pass
0.1568	107	107	100	Pass
0.1586	100	100	100	Pass
0.1605	97	97	100	Pass
0.1623	93	93	100	Pass
0.1642	91	91	100	Pass

0.1660	87	87	100	Pass
0.1679	83	83	100	Pass
0.1697	78	78	100	Pass
0.1716	75	75	100	Pass
0.1734	71	71	100	Pass
0.1753	69	69	100	Pass
0.1771	66	66	100	Pass
0.1790	61	61	100	Pass
0.1808	53	53	100	Pass
0.1827	51	51	100	Pass
0.1845	48	48	100	Pass
0.1864	47	47	100	Pass
0.1882	45	45	100	Pass
0.1901	43	43	100	Pass
0.1919	42	42	100	Pass
0.1938	41	41	100	Pass
0.1956	40	40	100	Pass
0.1975	38	38	100	Pass
0.1993	33	33	100	Pass
0.2012	30	30	100	Pass
0.2030	28	28	100	Pass
0.2049	26	26	100	Pass
0.2067	24	24	100	Pass
0.2086	22	22	100	Pass
0.2104	22	22	100	Pass
0.2123	22	22	100	Pass
0.2141	20	20	100	Pass
0.2160	18	18	100	Pass
0.2178	16	16	100	Pass
0.2197	15	15	100	Pass
0.2215	15	15	100	Pass
0.2234	13	13	100	Pass
0.2252	12	12	100	Pass
0.2271	11	11	100	Pass
0.2289	10	10	100	Pass
0.2308	10	10	100	Pass
0.2326	10	10	100	Pass
0.2345	10	10	100	Pass
0.2363	8	8	100	Pass
0.2382	7	7	100	Pass
0.2400	7	7	100	Pass
0.2419	6	6	100	Pass
0.2437	5	5	100	Pass
0.2456	5	5	100	Pass
0.2474	5	5	100	Pass
0.2493	4	4	100	Pass
0.2511	4	4	100	Pass
0.2530	4	4	100	Pass
0.2548	3	3	100	Pass
0.2567	3	3	100	Pass
0.2585	3	3	100	Pass
0.2604	2	2	100	Pass
0.2622	2	2	100	Pass
0.2641	2	2	100	Pass
0.2659	1	1	100	Pass
0.2678	1	1	100	Pass
0.2696	0	0	100	Pass

0.2715	0	0	0	Pass
0.2733	0	0	0	Pass
0.2752	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #12
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 12
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	11.8601	11.8601	100.0	Pass
Feb	9.0794	9.0794	100.0	Pass
Mar	8.0371	8.0371	100.0	Pass
Apr	4.4669	4.4669	100.0	Pass
May	2.3768	2.3768	100.0	Pass
Jun	1.5715	1.5715	100.0	Pass
Jul	0.7749	0.7749	100.0	Pass
Aug	1.1596	1.1596	100.0	Pass
Sep	2.6595	2.6595	100.0	Pass
Oct	6.5623	6.5623	100.0	Pass
Nov	11.2384	11.2384	100.0	Pass
Dec	11.4426	11.4426	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.3804	0.3804	100.0	Pass
2	0.2991	0.2991	100.0	Pass
3	0.3813	0.3813	100.0	Pass
4	0.4478	0.4478	100.0	Pass
5	0.3254	0.3254	100.0	Pass
6	0.4894	0.4894	100.0	Pass
7	0.3788	0.3788	100.0	Pass
8	0.3806	0.3806	100.0	Pass
9	0.4062	0.4062	100.0	Pass
10	0.3944	0.3944	100.0	Pass
11	0.4828	0.4828	100.0	Pass
12	0.3791	0.3791	100.0	Pass
13	0.4778	0.4778	100.0	Pass
14	0.4766	0.4766	100.0	Pass
15	0.4348	0.4348	100.0	Pass
16	0.3565	0.3565	100.0	Pass
17	0.3417	0.3417	100.0	Pass
18	0.3016	0.3016	100.0	Pass
19	0.3013	0.3013	100.0	Pass
20	0.1978	0.1978	100.0	Pass
21	0.3798	0.3798	100.0	Pass
22	0.4597	0.4597	100.0	Pass
23	0.5145	0.5145	100.0	Pass
24	0.3512	0.3512	100.0	Pass
25	0.2975	0.2975	100.0	Pass

26	0.2687	0.2687	100.0	Pass
27	0.3395	0.3395	100.0	Pass
28	0.4322	0.4322	100.0	Pass
29	0.3304	0.3304	100.0	Pass
30	0.3907	0.3907	100.0	Pass
31	0.2347	0.2347	100.0	Pass
Feb1	0.2675	0.2675	100.0	Pass
2	0.2443	0.2443	100.0	Pass
3	0.2207	0.2207	100.0	Pass
4	0.2044	0.2044	100.0	Pass
5	0.3769	0.3769	100.0	Pass
6	0.1906	0.1906	100.0	Pass
7	0.2773	0.2773	100.0	Pass
8	0.2106	0.2106	100.0	Pass
9	0.2537	0.2537	100.0	Pass
10	0.3377	0.3377	100.0	Pass
11	0.4449	0.4449	100.0	Pass
12	0.3480	0.3480	100.0	Pass
13	0.3739	0.3739	100.0	Pass
14	0.5235	0.5235	100.0	Pass
15	0.3812	0.3812	100.0	Pass
16	0.4996	0.4996	100.0	Pass
17	0.4396	0.4396	100.0	Pass
18	0.3466	0.3466	100.0	Pass
19	0.3016	0.3016	100.0	Pass
20	0.2907	0.2907	100.0	Pass
21	0.2381	0.2381	100.0	Pass
22	0.3488	0.3488	100.0	Pass
23	0.3317	0.3317	100.0	Pass
24	0.3654	0.3654	100.0	Pass
25	0.3264	0.3264	100.0	Pass
26	0.3216	0.3216	100.0	Pass
27	0.2815	0.2815	100.0	Pass
28	0.3814	0.3814	100.0	Pass
29	0.2711	0.2711	100.0	Pass
Mar1	0.2671	0.2671	100.0	Pass
2	0.2181	0.2181	100.0	Pass
3	0.3087	0.3087	100.0	Pass
4	0.3230	0.3230	100.0	Pass
5	0.2538	0.2538	100.0	Pass
6	0.3210	0.3210	100.0	Pass
7	0.3150	0.3150	100.0	Pass
8	0.3056	0.3056	100.0	Pass
9	0.3065	0.3065	100.0	Pass
10	0.2669	0.2669	100.0	Pass
11	0.2899	0.2899	100.0	Pass
12	0.2564	0.2564	100.0	Pass
13	0.3113	0.3113	100.0	Pass
14	0.2465	0.2465	100.0	Pass
15	0.2002	0.2002	100.0	Pass
16	0.1932	0.1932	100.0	Pass
17	0.2628	0.2628	100.0	Pass
18	0.1600	0.1600	100.0	Pass
19	0.2413	0.2413	100.0	Pass
20	0.1939	0.1939	100.0	Pass
21	0.3279	0.3279	100.0	Pass
22	0.3673	0.3673	100.0	Pass

23	0.3029	0.3029	100.0	Pass
24	0.1935	0.1935	100.0	Pass
25	0.2997	0.2997	100.0	Pass
26	0.2175	0.2175	100.0	Pass
27	0.2087	0.2087	100.0	Pass
28	0.2340	0.2340	100.0	Pass
29	0.2143	0.2143	100.0	Pass
30	0.1598	0.1598	100.0	Pass
31	0.1287	0.1287	100.0	Pass
Apr1	0.1382	0.1382	100.0	Pass
2	0.1558	0.1558	100.0	Pass
3	0.2144	0.2144	100.0	Pass
4	0.1938	0.1938	100.0	Pass
5	0.2085	0.2085	100.0	Pass
6	0.1112	0.1112	100.0	Pass
7	0.1864	0.1864	100.0	Pass
8	0.1875	0.1875	100.0	Pass
9	0.1661	0.1661	100.0	Pass
10	0.1643	0.1643	100.0	Pass
11	0.2267	0.2267	100.0	Pass
12	0.1934	0.1934	100.0	Pass
13	0.2022	0.2022	100.0	Pass
14	0.1716	0.1716	100.0	Pass
15	0.1842	0.1842	100.0	Pass
16	0.1011	0.1011	100.0	Pass
17	0.1409	0.1409	100.0	Pass
18	0.1624	0.1624	100.0	Pass
19	0.0866	0.0866	100.0	Pass
20	0.0845	0.0845	100.0	Pass
21	0.1441	0.1441	100.0	Pass
22	0.1195	0.1195	100.0	Pass
23	0.1042	0.1042	100.0	Pass
24	0.0838	0.0838	100.0	Pass
25	0.1018	0.1018	100.0	Pass
26	0.1709	0.1709	100.0	Pass
27	0.1315	0.1315	100.0	Pass
28	0.1375	0.1375	100.0	Pass
29	0.0656	0.0656	100.0	Pass
30	0.0889	0.0889	100.0	Pass
May1	0.1389	0.1389	100.0	Pass
2	0.0997	0.0997	100.0	Pass
3	0.1072	0.1072	100.0	Pass
4	0.0840	0.0840	100.0	Pass
5	0.0811	0.0811	100.0	Pass
6	0.0685	0.0685	100.0	Pass
7	0.0915	0.0915	100.0	Pass
8	0.0553	0.0553	100.0	Pass
9	0.0785	0.0785	100.0	Pass
10	0.0627	0.0627	100.0	Pass
11	0.0590	0.0590	100.0	Pass
12	0.0846	0.0846	100.0	Pass
13	0.0910	0.0910	100.0	Pass
14	0.0890	0.0890	100.0	Pass
15	0.0585	0.0585	100.0	Pass
16	0.0772	0.0772	100.0	Pass
17	0.0627	0.0627	100.0	Pass
18	0.1032	0.1032	100.0	Pass

19	0.0532	0.0532	100.0	Pass
20	0.0523	0.0523	100.0	Pass
21	0.0535	0.0535	100.0	Pass
22	0.0662	0.0662	100.0	Pass
23	0.0578	0.0578	100.0	Pass
24	0.0607	0.0607	100.0	Pass
25	0.0505	0.0505	100.0	Pass
26	0.0889	0.0889	100.0	Pass
27	0.0691	0.0691	100.0	Pass
28	0.0751	0.0751	100.0	Pass
29	0.1026	0.1026	100.0	Pass
30	0.0656	0.0656	100.0	Pass
31	0.0717	0.0717	100.0	Pass
Jun1	0.0534	0.0534	100.0	Pass
2	0.0901	0.0901	100.0	Pass
3	0.0850	0.0850	100.0	Pass
4	0.0604	0.0604	100.0	Pass
5	0.1024	0.1024	100.0	Pass
6	0.0374	0.0374	100.0	Pass
7	0.0587	0.0587	100.0	Pass
8	0.0833	0.0833	100.0	Pass
9	0.0622	0.0622	100.0	Pass
10	0.0594	0.0594	100.0	Pass
11	0.0427	0.0427	100.0	Pass
12	0.0527	0.0527	100.0	Pass
13	0.0843	0.0843	100.0	Pass
14	0.0337	0.0337	100.0	Pass
15	0.0689	0.0689	100.0	Pass
16	0.0294	0.0294	100.0	Pass
17	0.0425	0.0425	100.0	Pass
18	0.0283	0.0283	100.0	Pass
19	0.0344	0.0344	100.0	Pass
20	0.0378	0.0378	100.0	Pass
21	0.0377	0.0377	100.0	Pass
22	0.0202	0.0202	100.0	Pass
23	0.1071	0.1071	100.0	Pass
24	0.0273	0.0273	100.0	Pass
25	0.0468	0.0468	100.0	Pass
26	0.0278	0.0278	100.0	Pass
27	0.0253	0.0253	100.0	Pass
28	0.0261	0.0261	100.0	Pass
29	0.0346	0.0346	100.0	Pass
30	0.0751	0.0751	100.0	Pass
Jul1	0.0181	0.0181	100.0	Pass
2	0.0157	0.0157	100.0	Pass
3	0.0174	0.0174	100.0	Pass
4	0.0429	0.0429	100.0	Pass
5	0.0319	0.0319	100.0	Pass
6	0.0242	0.0242	100.0	Pass
7	0.0469	0.0469	100.0	Pass
8	0.0260	0.0260	100.0	Pass
9	0.0554	0.0554	100.0	Pass
10	0.0357	0.0357	100.0	Pass
11	0.0733	0.0733	100.0	Pass
12	0.0360	0.0360	100.0	Pass
13	0.0268	0.0268	100.0	Pass
14	0.0424	0.0424	100.0	Pass

15	0.0166	0.0166	100.0	Pass
16	0.0105	0.0105	100.0	Pass
17	0.0367	0.0367	100.0	Pass
18	0.0119	0.0119	100.0	Pass
19	0.0150	0.0150	100.0	Pass
20	0.0267	0.0267	100.0	Pass
21	0.0210	0.0210	100.0	Pass
22	0.0016	0.0016	100.0	Pass
23	0.0060	0.0060	100.0	Pass
24	0.0070	0.0070	100.0	Pass
25	0.0157	0.0157	100.0	Pass
26	0.0064	0.0064	100.0	Pass
27	0.0098	0.0098	100.0	Pass
28	0.0081	0.0081	100.0	Pass
29	0.0051	0.0051	100.0	Pass
30	0.0090	0.0090	100.0	Pass
31	0.0105	0.0105	100.0	Pass
Aug1	0.0430	0.0430	100.0	Pass
2	0.0146	0.0146	100.0	Pass
3	0.0054	0.0054	100.0	Pass
4	0.0055	0.0055	100.0	Pass
5	0.0487	0.0487	100.0	Pass
6	0.0323	0.0323	100.0	Pass
7	0.0114	0.0114	100.0	Pass
8	0.0118	0.0118	100.0	Pass
9	0.0008	0.0008	100.0	Pass
10	0.0062	0.0062	100.0	Pass
11	0.0313	0.0313	100.0	Pass
12	0.0267	0.0267	100.0	Pass
13	0.0336	0.0336	100.0	Pass
14	0.0204	0.0204	100.0	Pass
15	0.0182	0.0182	100.0	Pass
16	0.0156	0.0156	100.0	Pass
17	0.0309	0.0309	100.0	Pass
18	0.0598	0.0598	100.0	Pass
19	0.0162	0.0162	100.0	Pass
20	0.0462	0.0462	100.0	Pass
21	0.0424	0.0424	100.0	Pass
22	0.0828	0.0828	100.0	Pass
23	0.0773	0.0773	100.0	Pass
24	0.0664	0.0664	100.0	Pass
25	0.0263	0.0263	100.0	Pass
26	0.0798	0.0798	100.0	Pass
27	0.0811	0.0811	100.0	Pass
28	0.0811	0.0811	100.0	Pass
29	0.0508	0.0508	100.0	Pass
30	0.0828	0.0828	100.0	Pass
31	0.1314	0.1314	100.0	Pass
Sep1	0.0499	0.0499	100.0	Pass
2	0.0514	0.0514	100.0	Pass
3	0.0559	0.0559	100.0	Pass
4	0.0705	0.0705	100.0	Pass
5	0.0602	0.0602	100.0	Pass
6	0.0411	0.0411	100.0	Pass
7	0.0810	0.0810	100.0	Pass
8	0.0511	0.0511	100.0	Pass
9	0.1317	0.1317	100.0	Pass

10	0.0304	0.0304	100.0	Pass
11	0.0258	0.0258	100.0	Pass
12	0.0695	0.0695	100.0	Pass
13	0.1305	0.1305	100.0	Pass
14	0.0825	0.0825	100.0	Pass
15	0.1255	0.1255	100.0	Pass
16	0.1327	0.1327	100.0	Pass
17	0.1448	0.1448	100.0	Pass
18	0.1303	0.1303	100.0	Pass
19	0.1391	0.1391	100.0	Pass
20	0.1011	0.1011	100.0	Pass
21	0.1404	0.1404	100.0	Pass
22	0.1124	0.1124	100.0	Pass
23	0.0886	0.0886	100.0	Pass
24	0.0636	0.0636	100.0	Pass
25	0.0678	0.0678	100.0	Pass
26	0.0685	0.0685	100.0	Pass
27	0.0934	0.0934	100.0	Pass
28	0.0812	0.0812	100.0	Pass
29	0.1078	0.1078	100.0	Pass
30	0.0776	0.0776	100.0	Pass
Oct1	0.0542	0.0542	100.0	Pass
2	0.1391	0.1391	100.0	Pass
3	0.1238	0.1238	100.0	Pass
4	0.1512	0.1512	100.0	Pass
5	0.1606	0.1606	100.0	Pass
6	0.1776	0.1776	100.0	Pass
7	0.2272	0.2272	100.0	Pass
8	0.1843	0.1843	100.0	Pass
9	0.1428	0.1428	100.0	Pass
10	0.1165	0.1165	100.0	Pass
11	0.2228	0.2228	100.0	Pass
12	0.1489	0.1489	100.0	Pass
13	0.2087	0.2087	100.0	Pass
14	0.1180	0.1180	100.0	Pass
15	0.1401	0.1401	100.0	Pass
16	0.1892	0.1892	100.0	Pass
17	0.1727	0.1727	100.0	Pass
18	0.2774	0.2774	100.0	Pass
19	0.3414	0.3414	100.0	Pass
20	0.2943	0.2943	100.0	Pass
21	0.3557	0.3557	100.0	Pass
22	0.2081	0.2081	100.0	Pass
23	0.3462	0.3462	100.0	Pass
24	0.3030	0.3030	100.0	Pass
25	0.2708	0.2708	100.0	Pass
26	0.3288	0.3288	100.0	Pass
27	0.2786	0.2786	100.0	Pass
28	0.2593	0.2593	100.0	Pass
29	0.2189	0.2189	100.0	Pass
30	0.3256	0.3256	100.0	Pass
31	0.2737	0.2737	100.0	Pass
Nov1	0.3459	0.3459	100.0	Pass
2	0.4192	0.4192	100.0	Pass
3	0.3241	0.3241	100.0	Pass
4	0.3295	0.3295	100.0	Pass
5	0.3643	0.3643	100.0	Pass

6	0.3036	0.3036	100.0	Pass
7	0.2752	0.2752	100.0	Pass
8	0.3568	0.3568	100.0	Pass
9	0.4215	0.4215	100.0	Pass
10	0.3601	0.3601	100.0	Pass
11	0.4032	0.4032	100.0	Pass
12	0.3728	0.3728	100.0	Pass
13	0.2776	0.2776	100.0	Pass
14	0.3268	0.3268	100.0	Pass
15	0.3675	0.3675	100.0	Pass
16	0.3839	0.3839	100.0	Pass
17	0.3503	0.3503	100.0	Pass
18	0.5169	0.5169	100.0	Pass
19	0.4607	0.4607	100.0	Pass
20	0.3032	0.3032	100.0	Pass
21	0.4806	0.4806	100.0	Pass
22	0.5688	0.5688	100.0	Pass
23	0.4306	0.4306	100.0	Pass
24	0.4941	0.4941	100.0	Pass
25	0.3237	0.3237	100.0	Pass
26	0.2630	0.2630	100.0	Pass
27	0.3221	0.3221	100.0	Pass
28	0.3072	0.3072	100.0	Pass
29	0.5122	0.5122	100.0	Pass
30	0.4066	0.4066	100.0	Pass
Dec1	0.4499	0.4499	100.0	Pass
2	0.4348	0.4348	100.0	Pass
3	0.2771	0.2771	100.0	Pass
4	0.3093	0.3093	100.0	Pass
5	0.2648	0.2648	100.0	Pass
6	0.2301	0.2301	100.0	Pass
7	0.3337	0.3337	100.0	Pass
8	0.4193	0.4193	100.0	Pass
9	0.4147	0.4147	100.0	Pass
10	0.4473	0.4473	100.0	Pass
11	0.3251	0.3251	100.0	Pass
12	0.3532	0.3532	100.0	Pass
13	0.5281	0.5281	100.0	Pass
14	0.3630	0.3630	100.0	Pass
15	0.4781	0.4781	100.0	Pass
16	0.3194	0.3194	100.0	Pass
17	0.3836	0.3836	100.0	Pass
18	0.3145	0.3145	100.0	Pass
19	0.3710	0.3710	100.0	Pass
20	0.3626	0.3626	100.0	Pass
21	0.3992	0.3992	100.0	Pass
22	0.3930	0.3930	100.0	Pass
23	0.4274	0.4274	100.0	Pass
24	0.4741	0.4741	100.0	Pass
25	0.4094	0.4094	100.0	Pass
26	0.3729	0.3729	100.0	Pass
27	0.2494	0.2494	100.0	Pass
28	0.3983	0.3983	100.0	Pass
29	0.2604	0.2604	100.0	Pass
30	0.2732	0.2732	100.0	Pass
31	0.4637	0.4637	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #13

Total Pervious Area:0.192

Total Impervious Area:0.352

Mitigated Landuse Totals for POC #13

Total Pervious Area:0.192

Total Impervious Area:0.352

Flow Frequency Return Periods for Predeveloped. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.294516
5 year	0.358232
10 year	0.393302
25 year	0.431649
50 year	0.456782
100 year	0.479534

Flow Frequency Return Periods for Mitigated. POC #13

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.294516
5 year	0.358232
10 year	0.393302
25 year	0.431649
50 year	0.456782
100 year	0.479534

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #13

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.328	0.328
1957	0.388	0.388
1958	0.288	0.288
1959	0.311	0.311
1960	0.326	0.326
1961	0.233	0.233
1962	0.430	0.430
1963	0.387	0.387
1964	0.322	0.322
1965	0.328	0.328
1966	0.330	0.330
1967	0.195	0.195
1968	0.310	0.310
1969	0.303	0.303
1970	0.261	0.261
1971	0.436	0.436
1972	0.375	0.375
1973	0.327	0.327

1974	0.332	0.332
1975	0.285	0.285
1976	0.352	0.352
1977	0.246	0.246
1978	0.433	0.433
1979	0.276	0.276
1980	0.248	0.248
1981	0.316	0.316
1982	0.363	0.363
1983	0.288	0.288
1984	0.276	0.276
1985	0.188	0.188
1986	0.329	0.329
1987	0.227	0.227
1988	0.352	0.352
1989	0.286	0.286
1990	0.392	0.392
1991	0.235	0.235
1992	0.182	0.182
1993	0.201	0.201
1994	0.276	0.276
1995	0.239	0.239
1996	0.297	0.297
1997	0.315	0.315
1998	0.192	0.192
1999	0.250	0.250
2000	0.229	0.229
2001	0.209	0.209
2002	0.299	0.299
2003	0.423	0.423
2004	0.385	0.385
2005	0.297	0.297
2006	0.306	0.306
2007	0.366	0.366
2008	0.175	0.175
2009	0.162	0.162

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #13

Rank	Predeveloped	Mitigated
1	0.4360	0.4360
2	0.4327	0.4327
3	0.4295	0.4295
4	0.4228	0.4228
5	0.3920	0.3920
6	0.3875	0.3875
7	0.3872	0.3872
8	0.3845	0.3845
9	0.3746	0.3746
10	0.3663	0.3663
11	0.3634	0.3634
12	0.3524	0.3524
13	0.3518	0.3518
14	0.3319	0.3319
15	0.3304	0.3304
16	0.3295	0.3295

17	0.3282	0.3282
18	0.3282	0.3282
19	0.3272	0.3272
20	0.3260	0.3260
21	0.3220	0.3220
22	0.3156	0.3156
23	0.3153	0.3153
24	0.3109	0.3109
25	0.3098	0.3098
26	0.3064	0.3064
27	0.3026	0.3026
28	0.2993	0.2993
29	0.2972	0.2972
30	0.2969	0.2969
31	0.2880	0.2880
32	0.2880	0.2880
33	0.2861	0.2861
34	0.2848	0.2848
35	0.2765	0.2765
36	0.2764	0.2764
37	0.2756	0.2756
38	0.2610	0.2610
39	0.2495	0.2495
40	0.2481	0.2481
41	0.2463	0.2463
42	0.2389	0.2389
43	0.2350	0.2350
44	0.2333	0.2333
45	0.2290	0.2290
46	0.2272	0.2272
47	0.2089	0.2089
48	0.2005	0.2005
49	0.1953	0.1953
50	0.1915	0.1915
51	0.1876	0.1876
52	0.1818	0.1818
53	0.1747	0.1747
54	0.1624	0.1624

Stream Protection Duration

POC #13

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.1473	904	904	100	Pass
0.1504	844	844	100	Pass
0.1535	782	782	100	Pass
0.1566	735	735	100	Pass
0.1598	689	689	100	Pass
0.1629	632	632	100	Pass
0.1660	578	578	100	Pass
0.1691	548	548	100	Pass
0.1723	514	514	100	Pass
0.1754	471	471	100	Pass

0.1785	446	446	100	Pass
0.1816	406	406	100	Pass
0.1848	386	386	100	Pass
0.1879	371	371	100	Pass
0.1910	338	338	100	Pass
0.1942	311	311	100	Pass
0.1973	291	291	100	Pass
0.2004	268	268	100	Pass
0.2035	252	252	100	Pass
0.2067	235	235	100	Pass
0.2098	221	221	100	Pass
0.2129	214	214	100	Pass
0.2160	202	202	100	Pass
0.2192	191	191	100	Pass
0.2223	181	181	100	Pass
0.2254	173	173	100	Pass
0.2285	159	159	100	Pass
0.2317	150	150	100	Pass
0.2348	144	144	100	Pass
0.2379	138	138	100	Pass
0.2411	132	132	100	Pass
0.2442	128	128	100	Pass
0.2473	118	118	100	Pass
0.2504	110	110	100	Pass
0.2536	104	104	100	Pass
0.2567	97	97	100	Pass
0.2598	95	95	100	Pass
0.2629	92	92	100	Pass
0.2661	89	89	100	Pass
0.2692	84	84	100	Pass
0.2723	80	80	100	Pass
0.2754	77	77	100	Pass
0.2786	73	73	100	Pass
0.2817	69	69	100	Pass
0.2848	66	66	100	Pass
0.2880	63	63	100	Pass
0.2911	57	57	100	Pass
0.2942	51	51	100	Pass
0.2973	50	50	100	Pass
0.3005	48	48	100	Pass
0.3036	46	46	100	Pass
0.3067	45	45	100	Pass
0.3098	43	43	100	Pass
0.3130	41	41	100	Pass
0.3161	38	38	100	Pass
0.3192	35	35	100	Pass
0.3223	35	35	100	Pass
0.3255	34	34	100	Pass
0.3286	31	31	100	Pass
0.3317	26	26	100	Pass
0.3348	24	24	100	Pass
0.3380	24	24	100	Pass
0.3411	24	24	100	Pass
0.3442	22	22	100	Pass
0.3474	20	20	100	Pass
0.3505	19	19	100	Pass
0.3536	17	17	100	Pass

0.3567	15	15	100	Pass
0.3599	15	15	100	Pass
0.3630	15	15	100	Pass
0.3661	13	13	100	Pass
0.3692	11	11	100	Pass
0.3724	11	11	100	Pass
0.3755	10	10	100	Pass
0.3786	10	10	100	Pass
0.3817	10	10	100	Pass
0.3849	10	10	100	Pass
0.3880	9	9	100	Pass
0.3911	7	7	100	Pass
0.3943	6	6	100	Pass
0.3974	6	6	100	Pass
0.4005	6	6	100	Pass
0.4036	6	6	100	Pass
0.4068	5	5	100	Pass
0.4099	5	5	100	Pass
0.4130	4	4	100	Pass
0.4161	4	4	100	Pass
0.4193	4	4	100	Pass
0.4224	4	4	100	Pass
0.4255	3	3	100	Pass
0.4286	3	3	100	Pass
0.4318	2	2	100	Pass
0.4349	1	1	100	Pass
0.4380	0	0	100	Pass
0.4411	0	0	0	Pass
0.4443	0	0	0	Pass
0.4474	0	0	0	Pass
0.4505	0	0	0	Pass
0.4537	0	0	0	Pass
0.4568	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #13
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 13

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	20.0123	20.0123	100.0	Pass
Feb	15.3718	15.3718	100.0	Pass
Mar	13.5746	13.5746	100.0	Pass
Apr	7.4480	7.4480	100.0	Pass
May	3.8100	3.8100	100.0	Pass
Jun	2.4707	2.4707	100.0	Pass
Jul	1.1917	1.1917	100.0	Pass
Aug	1.7571	1.7571	100.0	Pass
Sep	4.1596	4.1596	100.0	Pass

Oct	10.5880	10.5880	100.0	Pass
Nov	18.7306	18.7306	100.0	Pass
Dec	19.3093	19.3093	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.6394	0.6394	100.0	Pass
2	0.5142	0.5142	100.0	Pass
3	0.6367	0.6367	100.0	Pass
4	0.7363	0.7363	100.0	Pass
5	0.5596	0.5596	100.0	Pass
6	0.8021	0.8021	100.0	Pass
7	0.6483	0.6483	100.0	Pass
8	0.6447	0.6447	100.0	Pass
9	0.6773	0.6773	100.0	Pass
10	0.6679	0.6679	100.0	Pass
11	0.8053	0.8053	100.0	Pass
12	0.6518	0.6518	100.0	Pass
13	0.7981	0.7981	100.0	Pass
14	0.8032	0.8032	100.0	Pass
15	0.7397	0.7397	100.0	Pass
16	0.6226	0.6226	100.0	Pass
17	0.5916	0.5916	100.0	Pass
18	0.5230	0.5230	100.0	Pass
19	0.5134	0.5134	100.0	Pass
20	0.3524	0.3524	100.0	Pass
21	0.6093	0.6093	100.0	Pass
22	0.7569	0.7569	100.0	Pass
23	0.8566	0.8566	100.0	Pass
24	0.6128	0.6128	100.0	Pass
25	0.5204	0.5204	100.0	Pass
26	0.4694	0.4694	100.0	Pass
27	0.5674	0.5674	100.0	Pass
28	0.7154	0.7154	100.0	Pass
29	0.5674	0.5674	100.0	Pass
30	0.6528	0.6528	100.0	Pass
31	0.4171	0.4171	100.0	Pass
Feb1	0.4575	0.4575	100.0	Pass
2	0.4140	0.4140	100.0	Pass
3	0.3777	0.3777	100.0	Pass
4	0.3499	0.3499	100.0	Pass
5	0.6114	0.6114	100.0	Pass
6	0.3413	0.3413	100.0	Pass
7	0.4607	0.4607	100.0	Pass
8	0.3612	0.3612	100.0	Pass
9	0.4190	0.4190	100.0	Pass
10	0.5506	0.5506	100.0	Pass
11	0.7321	0.7321	100.0	Pass
12	0.5959	0.5959	100.0	Pass
13	0.6267	0.6267	100.0	Pass
14	0.8554	0.8554	100.0	Pass
15	0.6592	0.6592	100.0	Pass
16	0.8306	0.8306	100.0	Pass
17	0.7471	0.7471	100.0	Pass
18	0.6097	0.6097	100.0	Pass
19	0.5270	0.5270	100.0	Pass
20	0.5030	0.5030	100.0	Pass
21	0.4124	0.4124	100.0	Pass

22	0.5801	0.5801	100.0	Pass
23	0.5584	0.5584	100.0	Pass
24	0.6133	0.6133	100.0	Pass
25	0.5567	0.5567	100.0	Pass
26	0.5513	0.5513	100.0	Pass
27	0.4861	0.4861	100.0	Pass
28	0.6477	0.6477	100.0	Pass
29	0.4633	0.4633	100.0	Pass
Mar1	0.4529	0.4529	100.0	Pass
2	0.3765	0.3765	100.0	Pass
3	0.5109	0.5109	100.0	Pass
4	0.5389	0.5389	100.0	Pass
5	0.4323	0.4323	100.0	Pass
6	0.5401	0.5401	100.0	Pass
7	0.5245	0.5245	100.0	Pass
8	0.5156	0.5156	100.0	Pass
9	0.5171	0.5171	100.0	Pass
10	0.4573	0.4573	100.0	Pass
11	0.4901	0.4901	100.0	Pass
12	0.4356	0.4356	100.0	Pass
13	0.5207	0.5207	100.0	Pass
14	0.4230	0.4230	100.0	Pass
15	0.3465	0.3465	100.0	Pass
16	0.3288	0.3288	100.0	Pass
17	0.4388	0.4388	100.0	Pass
18	0.2801	0.2801	100.0	Pass
19	0.3980	0.3980	100.0	Pass
20	0.3276	0.3276	100.0	Pass
21	0.5316	0.5316	100.0	Pass
22	0.6006	0.6006	100.0	Pass
23	0.5157	0.5157	100.0	Pass
24	0.3469	0.3469	100.0	Pass
25	0.4966	0.4966	100.0	Pass
26	0.3770	0.3770	100.0	Pass
27	0.3530	0.3530	100.0	Pass
28	0.3955	0.3955	100.0	Pass
29	0.3618	0.3618	100.0	Pass
30	0.2782	0.2782	100.0	Pass
31	0.2239	0.2239	100.0	Pass
Apr1	0.2335	0.2335	100.0	Pass
2	0.2586	0.2586	100.0	Pass
3	0.3449	0.3449	100.0	Pass
4	0.3217	0.3217	100.0	Pass
5	0.3508	0.3508	100.0	Pass
6	0.1985	0.1985	100.0	Pass
7	0.3040	0.3040	100.0	Pass
8	0.3123	0.3123	100.0	Pass
9	0.2756	0.2756	100.0	Pass
10	0.2773	0.2773	100.0	Pass
11	0.3646	0.3646	100.0	Pass
12	0.3233	0.3233	100.0	Pass
13	0.3337	0.3337	100.0	Pass
14	0.2902	0.2902	100.0	Pass
15	0.3097	0.3097	100.0	Pass
16	0.1815	0.1815	100.0	Pass
17	0.2333	0.2333	100.0	Pass
18	0.2656	0.2656	100.0	Pass

19	0.1545	0.1545	100.0	Pass
20	0.1435	0.1435	100.0	Pass
21	0.2304	0.2304	100.0	Pass
22	0.1954	0.1954	100.0	Pass
23	0.1741	0.1741	100.0	Pass
24	0.1415	0.1415	100.0	Pass
25	0.1649	0.1649	100.0	Pass
26	0.2757	0.2757	100.0	Pass
27	0.2191	0.2191	100.0	Pass
28	0.2287	0.2287	100.0	Pass
29	0.1181	0.1181	100.0	Pass
30	0.1453	0.1453	100.0	Pass
May1	0.2187	0.2187	100.0	Pass
2	0.1658	0.1658	100.0	Pass
3	0.1734	0.1734	100.0	Pass
4	0.1403	0.1403	100.0	Pass
5	0.1334	0.1334	100.0	Pass
6	0.1124	0.1124	100.0	Pass
7	0.1461	0.1461	100.0	Pass
8	0.0931	0.0931	100.0	Pass
9	0.1248	0.1248	100.0	Pass
10	0.1008	0.1008	100.0	Pass
11	0.0942	0.0942	100.0	Pass
12	0.1336	0.1336	100.0	Pass
13	0.1435	0.1435	100.0	Pass
14	0.1404	0.1404	100.0	Pass
15	0.0985	0.0985	100.0	Pass
16	0.1220	0.1220	100.0	Pass
17	0.1019	0.1019	100.0	Pass
18	0.1589	0.1589	100.0	Pass
19	0.0880	0.0880	100.0	Pass
20	0.0832	0.0832	100.0	Pass
21	0.0851	0.0851	100.0	Pass
22	0.1024	0.1024	100.0	Pass
23	0.0917	0.0917	100.0	Pass
24	0.0965	0.0965	100.0	Pass
25	0.0816	0.0816	100.0	Pass
26	0.1379	0.1379	100.0	Pass
27	0.1105	0.1105	100.0	Pass
28	0.1183	0.1183	100.0	Pass
29	0.1613	0.1613	100.0	Pass
30	0.1071	0.1071	100.0	Pass
31	0.1164	0.1164	100.0	Pass
Jun1	0.0896	0.0896	100.0	Pass
2	0.1386	0.1386	100.0	Pass
3	0.1319	0.1319	100.0	Pass
4	0.0969	0.0969	100.0	Pass
5	0.1579	0.1579	100.0	Pass
6	0.0646	0.0646	100.0	Pass
7	0.0943	0.0943	100.0	Pass
8	0.1305	0.1305	100.0	Pass
9	0.0994	0.0994	100.0	Pass
10	0.0929	0.0929	100.0	Pass
11	0.0684	0.0684	100.0	Pass
12	0.0810	0.0810	100.0	Pass
13	0.1290	0.1290	100.0	Pass
14	0.0564	0.0564	100.0	Pass

15	0.1068	0.1068	100.0	Pass
16	0.0500	0.0500	100.0	Pass
17	0.0672	0.0672	100.0	Pass
18	0.0476	0.0476	100.0	Pass
19	0.0533	0.0533	100.0	Pass
20	0.0572	0.0572	100.0	Pass
21	0.0584	0.0584	100.0	Pass
22	0.0329	0.0329	100.0	Pass
23	0.1578	0.1578	100.0	Pass
24	0.0476	0.0476	100.0	Pass
25	0.0723	0.0723	100.0	Pass
26	0.0435	0.0435	100.0	Pass
27	0.0383	0.0383	100.0	Pass
28	0.0392	0.0392	100.0	Pass
29	0.0511	0.0511	100.0	Pass
30	0.1121	0.1121	100.0	Pass
Jul1	0.0303	0.0303	100.0	Pass
2	0.0248	0.0248	100.0	Pass
3	0.0262	0.0262	100.0	Pass
4	0.0618	0.0618	100.0	Pass
5	0.0467	0.0467	100.0	Pass
6	0.0356	0.0356	100.0	Pass
7	0.0698	0.0698	100.0	Pass
8	0.0414	0.0414	100.0	Pass
9	0.0826	0.0826	100.0	Pass
10	0.0552	0.0552	100.0	Pass
11	0.1137	0.1137	100.0	Pass
12	0.0633	0.0633	100.0	Pass
13	0.0454	0.0454	100.0	Pass
14	0.0655	0.0655	100.0	Pass
15	0.0273	0.0273	100.0	Pass
16	0.0171	0.0171	100.0	Pass
17	0.0552	0.0552	100.0	Pass
18	0.0204	0.0204	100.0	Pass
19	0.0235	0.0235	100.0	Pass
20	0.0396	0.0396	100.0	Pass
21	0.0325	0.0325	100.0	Pass
22	0.0041	0.0041	100.0	Pass
23	0.0094	0.0094	100.0	Pass
24	0.0103	0.0103	100.0	Pass
25	0.0224	0.0224	100.0	Pass
26	0.0093	0.0093	100.0	Pass
27	0.0140	0.0140	100.0	Pass
28	0.0117	0.0117	100.0	Pass
29	0.0076	0.0076	100.0	Pass
30	0.0129	0.0129	100.0	Pass
31	0.0150	0.0150	100.0	Pass
Aug1	0.0618	0.0618	100.0	Pass
2	0.0226	0.0226	100.0	Pass
3	0.0092	0.0092	100.0	Pass
4	0.0088	0.0088	100.0	Pass
5	0.0710	0.0710	100.0	Pass
6	0.0487	0.0487	100.0	Pass
7	0.0183	0.0183	100.0	Pass
8	0.0179	0.0179	100.0	Pass
9	0.0017	0.0017	100.0	Pass
10	0.0092	0.0092	100.0	Pass

11	0.0449	0.0449	100.0	Pass
12	0.0387	0.0387	100.0	Pass
13	0.0490	0.0490	100.0	Pass
14	0.0312	0.0312	100.0	Pass
15	0.0286	0.0286	100.0	Pass
16	0.0238	0.0238	100.0	Pass
17	0.0447	0.0447	100.0	Pass
18	0.0861	0.0861	100.0	Pass
19	0.0260	0.0260	100.0	Pass
20	0.0674	0.0674	100.0	Pass
21	0.0635	0.0635	100.0	Pass
22	0.1226	0.1226	100.0	Pass
23	0.1180	0.1180	100.0	Pass
24	0.1072	0.1072	100.0	Pass
25	0.0462	0.0462	100.0	Pass
26	0.1197	0.1197	100.0	Pass
27	0.1241	0.1241	100.0	Pass
28	0.1265	0.1265	100.0	Pass
29	0.0806	0.0806	100.0	Pass
30	0.1242	0.1242	100.0	Pass
31	0.1994	0.1994	100.0	Pass
Sep1	0.0857	0.0857	100.0	Pass
2	0.0836	0.0836	100.0	Pass
3	0.0879	0.0879	100.0	Pass
4	0.1076	0.1076	100.0	Pass
5	0.0931	0.0931	100.0	Pass
6	0.0649	0.0649	100.0	Pass
7	0.1204	0.1204	100.0	Pass
8	0.0797	0.0797	100.0	Pass
9	0.1949	0.1949	100.0	Pass
10	0.0508	0.0508	100.0	Pass
11	0.0411	0.0411	100.0	Pass
12	0.1031	0.1031	100.0	Pass
13	0.1948	0.1948	100.0	Pass
14	0.1292	0.1292	100.0	Pass
15	0.1913	0.1913	100.0	Pass
16	0.2096	0.2096	100.0	Pass
17	0.2243	0.2243	100.0	Pass
18	0.2029	0.2029	100.0	Pass
19	0.2201	0.2201	100.0	Pass
20	0.1667	0.1667	100.0	Pass
21	0.2264	0.2264	100.0	Pass
22	0.1832	0.1832	100.0	Pass
23	0.1440	0.1440	100.0	Pass
24	0.1035	0.1035	100.0	Pass
25	0.1060	0.1060	100.0	Pass
26	0.1070	0.1070	100.0	Pass
27	0.1470	0.1470	100.0	Pass
28	0.1266	0.1266	100.0	Pass
29	0.1652	0.1652	100.0	Pass
30	0.1240	0.1240	100.0	Pass
Oct1	0.0888	0.0888	100.0	Pass
2	0.2087	0.2087	100.0	Pass
3	0.1896	0.1896	100.0	Pass
4	0.2345	0.2345	100.0	Pass
5	0.2504	0.2504	100.0	Pass
6	0.2757	0.2757	100.0	Pass

7	0.3548	0.3548	100.0	Pass
8	0.2958	0.2958	100.0	Pass
9	0.2328	0.2328	100.0	Pass
10	0.1911	0.1911	100.0	Pass
11	0.3436	0.3436	100.0	Pass
12	0.2401	0.2401	100.0	Pass
13	0.3245	0.3245	100.0	Pass
14	0.1979	0.1979	100.0	Pass
15	0.2259	0.2259	100.0	Pass
16	0.3024	0.3024	100.0	Pass
17	0.2786	0.2786	100.0	Pass
18	0.4407	0.4407	100.0	Pass
19	0.5477	0.5477	100.0	Pass
20	0.4764	0.4764	100.0	Pass
21	0.5737	0.5737	100.0	Pass
22	0.3579	0.3579	100.0	Pass
23	0.5592	0.5592	100.0	Pass
24	0.4978	0.4978	100.0	Pass
25	0.4492	0.4492	100.0	Pass
26	0.5354	0.5354	100.0	Pass
27	0.4653	0.4653	100.0	Pass
28	0.4320	0.4320	100.0	Pass
29	0.3700	0.3700	100.0	Pass
30	0.5247	0.5247	100.0	Pass
31	0.4562	0.4562	100.0	Pass
Nov1	0.5682	0.5682	100.0	Pass
2	0.6740	0.6740	100.0	Pass
3	0.5485	0.5485	100.0	Pass
4	0.5459	0.5459	100.0	Pass
5	0.6022	0.6022	100.0	Pass
6	0.5144	0.5144	100.0	Pass
7	0.4654	0.4654	100.0	Pass
8	0.5818	0.5818	100.0	Pass
9	0.6892	0.6892	100.0	Pass
10	0.6013	0.6013	100.0	Pass
11	0.6667	0.6667	100.0	Pass
12	0.6175	0.6175	100.0	Pass
13	0.4811	0.4811	100.0	Pass
14	0.5433	0.5433	100.0	Pass
15	0.6074	0.6074	100.0	Pass
16	0.6335	0.6335	100.0	Pass
17	0.5867	0.5867	100.0	Pass
18	0.8444	0.8444	100.0	Pass
19	0.7713	0.7713	100.0	Pass
20	0.5306	0.5306	100.0	Pass
21	0.7933	0.7933	100.0	Pass
22	0.9261	0.9261	100.0	Pass
23	0.7354	0.7354	100.0	Pass
24	0.8274	0.8274	100.0	Pass
25	0.5711	0.5711	100.0	Pass
26	0.4638	0.4638	100.0	Pass
27	0.5385	0.5385	100.0	Pass
28	0.5150	0.5150	100.0	Pass
29	0.8311	0.8311	100.0	Pass
30	0.6884	0.6884	100.0	Pass
Dec1	0.7504	0.7504	100.0	Pass
2	0.7356	0.7356	100.0	Pass

3	0.4890	0.4890	100.0	Pass
4	0.5240	0.5240	100.0	Pass
5	0.4575	0.4575	100.0	Pass
6	0.3926	0.3926	100.0	Pass
7	0.5463	0.5463	100.0	Pass
8	0.6851	0.6851	100.0	Pass
9	0.6920	0.6920	100.0	Pass
10	0.7499	0.7499	100.0	Pass
11	0.5593	0.5593	100.0	Pass
12	0.5955	0.5955	100.0	Pass
13	0.8604	0.8604	100.0	Pass
14	0.6294	0.6294	100.0	Pass
15	0.7917	0.7917	100.0	Pass
16	0.5599	0.5599	100.0	Pass
17	0.6448	0.6448	100.0	Pass
18	0.5382	0.5382	100.0	Pass
19	0.6150	0.6150	100.0	Pass
20	0.6119	0.6119	100.0	Pass
21	0.6736	0.6736	100.0	Pass
22	0.6606	0.6606	100.0	Pass
23	0.7144	0.7144	100.0	Pass
24	0.7845	0.7845	100.0	Pass
25	0.7000	0.7000	100.0	Pass
26	0.6407	0.6407	100.0	Pass
27	0.4401	0.4401	100.0	Pass
28	0.6582	0.6582	100.0	Pass
29	0.4572	0.4572	100.0	Pass
30	0.4640	0.4640	100.0	Pass
31	0.7579	0.7579	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #14

Total Pervious Area:0.148
Total Impervious Area:0.118

Mitigated Landuse Totals for POC #14

Total Pervious Area:0.148
Total Impervious Area:0.118

Flow Frequency Return Periods for Predeveloped. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.126313
5 year	0.158278
10 year	0.176256
25 year	0.196193
50 year	0.209409
100 year	0.221468

Flow Frequency Return Periods for Mitigated. POC #14

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.126313
5 year	0.158278
10 year	0.176256
25 year	0.196193
50 year	0.209409
100 year	0.221468

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #14

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.149	0.149
1957	0.168	0.168
1958	0.121	0.121
1959	0.139	0.139
1960	0.148	0.148
1961	0.100	0.100
1962	0.195	0.195
1963	0.174	0.174
1964	0.138	0.138
1965	0.144	0.144
1966	0.149	0.149
1967	0.081	0.081
1968	0.137	0.137
1969	0.137	0.137
1970	0.106	0.106
1971	0.196	0.196
1972	0.172	0.172
1973	0.141	0.141
1974	0.150	0.150
1975	0.124	0.124
1976	0.156	0.156
1977	0.105	0.105
1978	0.188	0.188
1979	0.121	0.121
1980	0.108	0.108
1981	0.135	0.135
1982	0.155	0.155
1983	0.123	0.123
1984	0.122	0.122
1985	0.072	0.072
1986	0.144	0.144
1987	0.098	0.098
1988	0.154	0.154
1989	0.122	0.122
1990	0.177	0.177
1991	0.103	0.103
1992	0.076	0.076
1993	0.080	0.080
1994	0.119	0.119
1995	0.088	0.088
1996	0.113	0.113
1997	0.133	0.133
1998	0.077	0.077
1999	0.106	0.106
2000	0.098	0.098

2001	0.083	0.083
2002	0.104	0.104
2003	0.193	0.193
2004	0.171	0.171
2005	0.129	0.129
2006	0.135	0.135
2007	0.164	0.164
2008	0.070	0.070
2009	0.064	0.064

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #14

Rank	Predeveloped	Mitigated
1	0.1962	0.1962
2	0.1951	0.1951
3	0.1927	0.1927
4	0.1878	0.1878
5	0.1766	0.1766
6	0.1736	0.1736
7	0.1716	0.1716
8	0.1712	0.1712
9	0.1684	0.1684
10	0.1643	0.1643
11	0.1561	0.1561
12	0.1548	0.1548
13	0.1544	0.1544
14	0.1504	0.1504
15	0.1491	0.1491
16	0.1491	0.1491
17	0.1475	0.1475
18	0.1444	0.1444
19	0.1442	0.1442
20	0.1410	0.1410
21	0.1391	0.1391
22	0.1376	0.1376
23	0.1371	0.1371
24	0.1366	0.1366
25	0.1351	0.1351
26	0.1350	0.1350
27	0.1330	0.1330
28	0.1290	0.1290
29	0.1243	0.1243
30	0.1235	0.1235
31	0.1224	0.1224
32	0.1215	0.1215
33	0.1208	0.1208
34	0.1205	0.1205
35	0.1186	0.1186
36	0.1129	0.1129
37	0.1080	0.1080
38	0.1064	0.1064
39	0.1062	0.1062
40	0.1047	0.1047
41	0.1041	0.1041
42	0.1027	0.1027
43	0.0999	0.0999

44	0.0980	0.0980
45	0.0979	0.0979
46	0.0882	0.0882
47	0.0826	0.0826
48	0.0805	0.0805
49	0.0798	0.0798
50	0.0775	0.0775
51	0.0758	0.0758
52	0.0722	0.0722
53	0.0702	0.0702
54	0.0636	0.0636

Stream Protection Duration

POC #14

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0632	742	742	100	Pass
0.0646	684	684	100	Pass
0.0661	648	648	100	Pass
0.0676	603	603	100	Pass
0.0691	557	557	100	Pass
0.0705	519	519	100	Pass
0.0720	479	479	100	Pass
0.0735	436	436	100	Pass
0.0750	405	405	100	Pass
0.0765	375	375	100	Pass
0.0779	357	357	100	Pass
0.0794	345	345	100	Pass
0.0809	322	322	100	Pass
0.0824	302	302	100	Pass
0.0838	279	279	100	Pass
0.0853	249	249	100	Pass
0.0868	233	233	100	Pass
0.0883	221	221	100	Pass
0.0897	209	209	100	Pass
0.0912	200	200	100	Pass
0.0927	187	187	100	Pass
0.0942	182	182	100	Pass
0.0957	171	171	100	Pass
0.0971	163	163	100	Pass
0.0986	152	152	100	Pass
0.1001	144	144	100	Pass
0.1016	137	137	100	Pass
0.1030	128	128	100	Pass
0.1045	124	124	100	Pass
0.1060	117	117	100	Pass
0.1075	111	111	100	Pass
0.1090	105	105	100	Pass
0.1104	101	101	100	Pass
0.1119	96	96	100	Pass
0.1134	90	90	100	Pass
0.1149	87	87	100	Pass
0.1163	83	83	100	Pass

0.1178	78	78	100	Pass
0.1193	75	75	100	Pass
0.1208	70	70	100	Pass
0.1222	66	66	100	Pass
0.1237	61	61	100	Pass
0.1252	59	59	100	Pass
0.1267	57	57	100	Pass
0.1282	55	55	100	Pass
0.1296	51	51	100	Pass
0.1311	50	50	100	Pass
0.1326	48	48	100	Pass
0.1341	47	47	100	Pass
0.1355	44	44	100	Pass
0.1370	41	41	100	Pass
0.1385	39	39	100	Pass
0.1400	37	37	100	Pass
0.1415	33	33	100	Pass
0.1429	32	32	100	Pass
0.1444	30	30	100	Pass
0.1459	30	30	100	Pass
0.1474	29	29	100	Pass
0.1488	27	27	100	Pass
0.1503	25	25	100	Pass
0.1518	21	21	100	Pass
0.1533	21	21	100	Pass
0.1547	20	20	100	Pass
0.1562	16	16	100	Pass
0.1577	15	15	100	Pass
0.1592	14	14	100	Pass
0.1607	13	13	100	Pass
0.1621	12	12	100	Pass
0.1636	12	12	100	Pass
0.1651	11	11	100	Pass
0.1666	11	11	100	Pass
0.1680	11	11	100	Pass
0.1695	10	10	100	Pass
0.1710	10	10	100	Pass
0.1725	8	8	100	Pass
0.1740	7	7	100	Pass
0.1754	7	7	100	Pass
0.1769	6	6	100	Pass
0.1784	6	6	100	Pass
0.1799	6	6	100	Pass
0.1813	6	6	100	Pass
0.1828	6	6	100	Pass
0.1843	6	6	100	Pass
0.1858	5	5	100	Pass
0.1872	4	4	100	Pass
0.1887	3	3	100	Pass
0.1902	3	3	100	Pass
0.1917	3	3	100	Pass
0.1932	2	2	100	Pass
0.1946	2	2	100	Pass
0.1961	1	1	100	Pass
0.1976	0	0	100	Pass
0.1991	0	0	0	Pass
0.2005	0	0	0	Pass

0.2020	0	0	0	Pass
0.2035	0	0	0	Pass
0.2050	0	0	0	Pass
0.2065	0	0	0	Pass
0.2079	0	0	0	Pass
0.2094	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #14
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 14

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	9.3104	9.3104	100.0	Pass
Feb	7.1861	7.1861	100.0	Pass
Mar	6.3240	6.3240	100.0	Pass
Apr	3.4053	3.4053	100.0	Pass
May	1.6379	1.6379	100.0	Pass
Jun	1.0279	1.0279	100.0	Pass
Jul	0.4766	0.4766	100.0	Pass
Aug	0.6834	0.6834	100.0	Pass
Sep	1.7148	1.7148	100.0	Pass
Oct	4.6000	4.6000	100.0	Pass
Nov	8.5579	8.5579	100.0	Pass
Dec	8.9843	8.9843	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.2959	0.2959	100.0	Pass
2	0.2455	0.2455	100.0	Pass
3	0.2917	0.2917	100.0	Pass
4	0.3296	0.3296	100.0	Pass
5	0.2674	0.2674	100.0	Pass
6	0.3573	0.3573	100.0	Pass
7	0.3078	0.3078	100.0	Pass
8	0.3016	0.3016	100.0	Pass
9	0.3096	0.3096	100.0	Pass
10	0.3124	0.3124	100.0	Pass
11	0.3683	0.3683	100.0	Pass
12	0.3113	0.3113	100.0	Pass
13	0.3658	0.3658	100.0	Pass
14	0.3730	0.3730	100.0	Pass
15	0.3482	0.3482	100.0	Pass
16	0.3038	0.3038	100.0	Pass
17	0.2854	0.2854	100.0	Pass
18	0.2528	0.2528	100.0	Pass
19	0.2423	0.2423	100.0	Pass
20	0.1765	0.1765	100.0	Pass
21	0.2623	0.2623	100.0	Pass
22	0.3395	0.3395	100.0	Pass

23	0.3909	0.3909	100.0	Pass
24	0.2987	0.2987	100.0	Pass
25	0.2544	0.2544	100.0	Pass
26	0.2291	0.2291	100.0	Pass
27	0.2602	0.2602	100.0	Pass
28	0.3234	0.3234	100.0	Pass
29	0.2706	0.2706	100.0	Pass
30	0.2994	0.2994	100.0	Pass
31	0.2083	0.2083	100.0	Pass
Feb1	0.2170	0.2170	100.0	Pass
2	0.1938	0.1938	100.0	Pass
3	0.1793	0.1793	100.0	Pass
4	0.1662	0.1662	100.0	Pass
5	0.2680	0.2680	100.0	Pass
6	0.1719	0.1719	100.0	Pass
7	0.2095	0.2095	100.0	Pass
8	0.1720	0.1720	100.0	Pass
9	0.1888	0.1888	100.0	Pass
10	0.2432	0.2432	100.0	Pass
11	0.3280	0.3280	100.0	Pass
12	0.2831	0.2831	100.0	Pass
13	0.2887	0.2887	100.0	Pass
14	0.3792	0.3792	100.0	Pass
15	0.3175	0.3175	100.0	Pass
16	0.3781	0.3781	100.0	Pass
17	0.3512	0.3512	100.0	Pass
18	0.3004	0.3004	100.0	Pass
19	0.2573	0.2573	100.0	Pass
20	0.2424	0.2424	100.0	Pass
21	0.1990	0.1990	100.0	Pass
22	0.2642	0.2642	100.0	Pass
23	0.2590	0.2590	100.0	Pass
24	0.2832	0.2832	100.0	Pass
25	0.2630	0.2630	100.0	Pass
26	0.2623	0.2623	100.0	Pass
27	0.2336	0.2336	100.0	Pass
28	0.3041	0.3041	100.0	Pass
29	0.2195	0.2195	100.0	Pass
Mar1	0.2123	0.2123	100.0	Pass
2	0.1809	0.1809	100.0	Pass
3	0.2309	0.2309	100.0	Pass
4	0.2465	0.2465	100.0	Pass
5	0.2038	0.2038	100.0	Pass
6	0.2503	0.2503	100.0	Pass
7	0.2393	0.2393	100.0	Pass
8	0.2398	0.2398	100.0	Pass
9	0.2406	0.2406	100.0	Pass
10	0.2174	0.2174	100.0	Pass
11	0.2286	0.2286	100.0	Pass
12	0.2047	0.2047	100.0	Pass
13	0.2391	0.2391	100.0	Pass
14	0.2015	0.2015	100.0	Pass
15	0.1670	0.1670	100.0	Pass
16	0.1548	0.1548	100.0	Pass
17	0.2011	0.2011	100.0	Pass
18	0.1371	0.1371	100.0	Pass
19	0.1790	0.1790	100.0	Pass

20	0.1526	0.1526	100.0	Pass
21	0.2328	0.2328	100.0	Pass
22	0.2666	0.2666	100.0	Pass
23	0.2430	0.2430	100.0	Pass
24	0.1751	0.1751	100.0	Pass
25	0.2250	0.2250	100.0	Pass
26	0.1821	0.1821	100.0	Pass
27	0.1648	0.1648	100.0	Pass
28	0.1845	0.1845	100.0	Pass
29	0.1685	0.1685	100.0	Pass
30	0.1351	0.1351	100.0	Pass
31	0.1087	0.1087	100.0	Pass
Apr1	0.1089	0.1089	100.0	Pass
2	0.1175	0.1175	100.0	Pass
3	0.1491	0.1491	100.0	Pass
4	0.1460	0.1460	100.0	Pass
5	0.1626	0.1626	100.0	Pass
6	0.0997	0.0997	100.0	Pass
7	0.1344	0.1344	100.0	Pass
8	0.1425	0.1425	100.0	Pass
9	0.1250	0.1250	100.0	Pass
10	0.1290	0.1290	100.0	Pass
11	0.1576	0.1576	100.0	Pass
12	0.1483	0.1483	100.0	Pass
13	0.1502	0.1502	100.0	Pass
14	0.1354	0.1354	100.0	Pass
15	0.1434	0.1434	100.0	Pass
16	0.0918	0.0918	100.0	Pass
17	0.1055	0.1055	100.0	Pass
18	0.1180	0.1180	100.0	Pass
19	0.0774	0.0774	100.0	Pass
20	0.0673	0.0673	100.0	Pass
21	0.0987	0.0987	100.0	Pass
22	0.0868	0.0868	100.0	Pass
23	0.0799	0.0799	100.0	Pass
24	0.0659	0.0659	100.0	Pass
25	0.0722	0.0722	100.0	Pass
26	0.1197	0.1197	100.0	Pass
27	0.1001	0.1001	100.0	Pass
28	0.1041	0.1041	100.0	Pass
29	0.0599	0.0599	100.0	Pass
30	0.0644	0.0644	100.0	Pass
May1	0.0912	0.0912	100.0	Pass
2	0.0755	0.0755	100.0	Pass
3	0.0757	0.0757	100.0	Pass
4	0.0643	0.0643	100.0	Pass
5	0.0597	0.0597	100.0	Pass
6	0.0501	0.0501	100.0	Pass
7	0.0624	0.0624	100.0	Pass
8	0.0431	0.0431	100.0	Pass
9	0.0529	0.0529	100.0	Pass
10	0.0436	0.0436	100.0	Pass
11	0.0402	0.0402	100.0	Pass
12	0.0560	0.0560	100.0	Pass
13	0.0601	0.0601	100.0	Pass
14	0.0588	0.0588	100.0	Pass
15	0.0456	0.0456	100.0	Pass

16	0.0512	0.0512	100.0	Pass
17	0.0447	0.0447	100.0	Pass
18	0.0637	0.0637	100.0	Pass
19	0.0398	0.0398	100.0	Pass
20	0.0353	0.0353	100.0	Pass
21	0.0361	0.0361	100.0	Pass
22	0.0413	0.0413	100.0	Pass
23	0.0388	0.0388	100.0	Pass
24	0.0409	0.0409	100.0	Pass
25	0.0355	0.0355	100.0	Pass
26	0.0560	0.0560	100.0	Pass
27	0.0473	0.0473	100.0	Pass
28	0.0494	0.0494	100.0	Pass
29	0.0671	0.0671	100.0	Pass
30	0.0474	0.0474	100.0	Pass
31	0.0510	0.0510	100.0	Pass
Jun1	0.0414	0.0414	100.0	Pass
2	0.0555	0.0555	100.0	Pass
3	0.0536	0.0536	100.0	Pass
4	0.0417	0.0417	100.0	Pass
5	0.0634	0.0634	100.0	Pass
6	0.0311	0.0311	100.0	Pass
7	0.0407	0.0407	100.0	Pass
8	0.0540	0.0540	100.0	Pass
9	0.0424	0.0424	100.0	Pass
10	0.0383	0.0383	100.0	Pass
11	0.0294	0.0294	100.0	Pass
12	0.0324	0.0324	100.0	Pass
13	0.0511	0.0511	100.0	Pass
14	0.0259	0.0259	100.0	Pass
15	0.0433	0.0433	100.0	Pass
16	0.0234	0.0234	100.0	Pass
17	0.0282	0.0282	100.0	Pass
18	0.0220	0.0220	100.0	Pass
19	0.0216	0.0216	100.0	Pass
20	0.0223	0.0223	100.0	Pass
21	0.0237	0.0237	100.0	Pass
22	0.0145	0.0145	100.0	Pass
23	0.0581	0.0581	100.0	Pass
24	0.0232	0.0232	100.0	Pass
25	0.0292	0.0292	100.0	Pass
26	0.0179	0.0179	100.0	Pass
27	0.0149	0.0149	100.0	Pass
28	0.0149	0.0149	100.0	Pass
29	0.0189	0.0189	100.0	Pass
30	0.0423	0.0423	100.0	Pass
Jul1	0.0140	0.0140	100.0	Pass
2	0.0104	0.0104	100.0	Pass
3	0.0101	0.0101	100.0	Pass
4	0.0215	0.0215	100.0	Pass
5	0.0169	0.0169	100.0	Pass
6	0.0131	0.0131	100.0	Pass
7	0.0263	0.0263	100.0	Pass
8	0.0176	0.0176	100.0	Pass
9	0.0311	0.0311	100.0	Pass
10	0.0223	0.0223	100.0	Pass
11	0.0461	0.0461	100.0	Pass

12	0.0311	0.0311	100.0	Pass
13	0.0213	0.0213	100.0	Pass
14	0.0264	0.0264	100.0	Pass
15	0.0122	0.0122	100.0	Pass
16	0.0075	0.0075	100.0	Pass
17	0.0211	0.0211	100.0	Pass
18	0.0097	0.0097	100.0	Pass
19	0.0097	0.0097	100.0	Pass
20	0.0147	0.0147	100.0	Pass
21	0.0132	0.0132	100.0	Pass
22	0.0028	0.0028	100.0	Pass
23	0.0039	0.0039	100.0	Pass
24	0.0038	0.0038	100.0	Pass
25	0.0078	0.0078	100.0	Pass
26	0.0033	0.0033	100.0	Pass
27	0.0048	0.0048	100.0	Pass
28	0.0041	0.0041	100.0	Pass
29	0.0028	0.0028	100.0	Pass
30	0.0045	0.0045	100.0	Pass
31	0.0052	0.0052	100.0	Pass
Aug1	0.0215	0.0215	100.0	Pass
2	0.0092	0.0092	100.0	Pass
3	0.0043	0.0043	100.0	Pass
4	0.0037	0.0037	100.0	Pass
5	0.0255	0.0255	100.0	Pass
6	0.0187	0.0187	100.0	Pass
7	0.0079	0.0079	100.0	Pass
8	0.0070	0.0070	100.0	Pass
9	0.0011	0.0011	100.0	Pass
10	0.0034	0.0034	100.0	Pass
11	0.0156	0.0156	100.0	Pass
12	0.0138	0.0138	100.0	Pass
13	0.0176	0.0176	100.0	Pass
14	0.0123	0.0123	100.0	Pass
15	0.0119	0.0119	100.0	Pass
16	0.0094	0.0094	100.0	Pass
17	0.0158	0.0158	100.0	Pass
18	0.0302	0.0302	100.0	Pass
19	0.0113	0.0113	100.0	Pass
20	0.0243	0.0243	100.0	Pass
21	0.0242	0.0242	100.0	Pass
22	0.0456	0.0456	100.0	Pass
23	0.0466	0.0466	100.0	Pass
24	0.0466	0.0466	100.0	Pass
25	0.0227	0.0227	100.0	Pass
26	0.0456	0.0456	100.0	Pass
27	0.0491	0.0491	100.0	Pass
28	0.0519	0.0519	100.0	Pass
29	0.0340	0.0340	100.0	Pass
30	0.0473	0.0473	100.0	Pass
31	0.0778	0.0778	100.0	Pass
Sep1	0.0409	0.0409	100.0	Pass
2	0.0368	0.0368	100.0	Pass
3	0.0367	0.0367	100.0	Pass
4	0.0425	0.0425	100.0	Pass
5	0.0376	0.0376	100.0	Pass
6	0.0273	0.0273	100.0	Pass

7	0.0450	0.0450	100.0	Pass
8	0.0327	0.0327	100.0	Pass
9	0.0724	0.0724	100.0	Pass
10	0.0233	0.0233	100.0	Pass
11	0.0174	0.0174	100.0	Pass
12	0.0385	0.0385	100.0	Pass
13	0.0737	0.0737	100.0	Pass
14	0.0534	0.0534	100.0	Pass
15	0.0753	0.0753	100.0	Pass
16	0.0878	0.0878	100.0	Pass
17	0.0909	0.0909	100.0	Pass
18	0.0831	0.0831	100.0	Pass
19	0.0925	0.0925	100.0	Pass
20	0.0750	0.0750	100.0	Pass
21	0.0983	0.0983	100.0	Pass
22	0.0810	0.0810	100.0	Pass
23	0.0632	0.0632	100.0	Pass
24	0.0456	0.0456	100.0	Pass
25	0.0436	0.0436	100.0	Pass
26	0.0440	0.0440	100.0	Pass
27	0.0612	0.0612	100.0	Pass
28	0.0519	0.0519	100.0	Pass
29	0.0656	0.0656	100.0	Pass
30	0.0530	0.0530	100.0	Pass
Oct1	0.0395	0.0395	100.0	Pass
2	0.0797	0.0797	100.0	Pass
3	0.0752	0.0752	100.0	Pass
4	0.0952	0.0952	100.0	Pass
5	0.1027	0.1027	100.0	Pass
6	0.1122	0.1122	100.0	Pass
7	0.1459	0.1459	100.0	Pass
8	0.1274	0.1274	100.0	Pass
9	0.1029	0.1029	100.0	Pass
10	0.0852	0.0852	100.0	Pass
11	0.1382	0.1382	100.0	Pass
12	0.1043	0.1043	100.0	Pass
13	0.1324	0.1324	100.0	Pass
14	0.0912	0.0912	100.0	Pass
15	0.0981	0.0981	100.0	Pass
16	0.1293	0.1293	100.0	Pass
17	0.1210	0.1210	100.0	Pass
18	0.1866	0.1866	100.0	Pass
19	0.2358	0.2358	100.0	Pass
20	0.2081	0.2081	100.0	Pass
21	0.2491	0.2491	100.0	Pass
22	0.1711	0.1711	100.0	Pass
23	0.2434	0.2434	100.0	Pass
24	0.2225	0.2225	100.0	Pass
25	0.2038	0.2038	100.0	Pass
26	0.2360	0.2360	100.0	Pass
27	0.2133	0.2133	100.0	Pass
28	0.1973	0.1973	100.0	Pass
29	0.1725	0.1725	100.0	Pass
30	0.2275	0.2275	100.0	Pass
31	0.2085	0.2085	100.0	Pass
Nov1	0.2540	0.2540	100.0	Pass
2	0.2912	0.2912	100.0	Pass

3	0.2563	0.2563	100.0	Pass
4	0.2472	0.2472	100.0	Pass
5	0.2718	0.2718	100.0	Pass
6	0.2408	0.2408	100.0	Pass
7	0.2172	0.2172	100.0	Pass
8	0.2570	0.2570	100.0	Pass
9	0.3058	0.3058	100.0	Pass
10	0.2755	0.2755	100.0	Pass
11	0.3010	0.3010	100.0	Pass
12	0.2795	0.2795	100.0	Pass
13	0.2323	0.2323	100.0	Pass
14	0.2473	0.2473	100.0	Pass
15	0.2741	0.2741	100.0	Pass
16	0.2852	0.2852	100.0	Pass
17	0.2701	0.2701	100.0	Pass
18	0.3742	0.3742	100.0	Pass
19	0.3548	0.3548	100.0	Pass
20	0.2596	0.2596	100.0	Pass
21	0.3573	0.3573	100.0	Pass
22	0.4082	0.4082	100.0	Pass
23	0.3481	0.3481	100.0	Pass
24	0.3807	0.3807	100.0	Pass
25	0.2824	0.2824	100.0	Pass
26	0.2292	0.2292	100.0	Pass
27	0.2472	0.2472	100.0	Pass
28	0.2374	0.2374	100.0	Pass
29	0.3644	0.3644	100.0	Pass
30	0.3218	0.3218	100.0	Pass
Dec1	0.3433	0.3433	100.0	Pass
2	0.3435	0.3435	100.0	Pass
3	0.2419	0.2419	100.0	Pass
4	0.2453	0.2453	100.0	Pass
5	0.2200	0.2200	100.0	Pass
6	0.1856	0.1856	100.0	Pass
7	0.2429	0.2429	100.0	Pass
8	0.3036	0.3036	100.0	Pass
9	0.3167	0.3167	100.0	Pass
10	0.3456	0.3456	100.0	Pass
11	0.2674	0.2674	100.0	Pass
12	0.2767	0.2767	100.0	Pass
13	0.3796	0.3796	100.0	Pass
14	0.3041	0.3041	100.0	Pass
15	0.3582	0.3582	100.0	Pass
16	0.2746	0.2746	100.0	Pass
17	0.2983	0.2983	100.0	Pass
18	0.2555	0.2555	100.0	Pass
19	0.2787	0.2787	100.0	Pass
20	0.2847	0.2847	100.0	Pass
21	0.3134	0.3134	100.0	Pass
22	0.3056	0.3056	100.0	Pass
23	0.3279	0.3279	100.0	Pass
24	0.3546	0.3546	100.0	Pass
25	0.3318	0.3318	100.0	Pass
26	0.3057	0.3057	100.0	Pass
27	0.2177	0.2177	100.0	Pass
28	0.2969	0.2969	100.0	Pass
29	0.2247	0.2247	100.0	Pass

30	0.2179	0.2179	100.0	Pass
31	0.3361	0.3361	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #15
Total Pervious Area:0.186
Total Impervious Area:0.203

Mitigated Landuse Totals for POC #15
Total Pervious Area:0.186
Total Impervious Area:0.203

Flow Frequency Return Periods for Predeveloped. POC #15

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.194638
5 year	0.24082
10 year	0.266556
25 year	0.294926
50 year	0.313641
100 year	0.33066

Flow Frequency Return Periods for Mitigated. POC #15

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.194638
5 year	0.24082
10 year	0.266556
25 year	0.294926
50 year	0.313641
100 year	0.33066

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #15

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.224	0.224
1957	0.258	0.258
1958	0.188	0.188
1959	0.211	0.211
1960	0.222	0.222
1961	0.151	0.151
1962	0.294	0.294
1963	0.263	0.263
1964	0.212	0.212
1965	0.220	0.220
1966	0.225	0.225
1967	0.126	0.126
1968	0.208	0.208
1969	0.207	0.207
1970	0.168	0.168

1971	0.296	0.296
1972	0.257	0.257
1973	0.217	0.217
1974	0.227	0.227
1975	0.190	0.190
1976	0.237	0.237
1977	0.162	0.162
1978	0.288	0.288
1979	0.185	0.185
1980	0.165	0.165
1981	0.208	0.208
1982	0.239	0.239
1983	0.190	0.190
1984	0.185	0.185
1985	0.116	0.116
1986	0.220	0.220
1987	0.151	0.151
1988	0.236	0.236
1989	0.189	0.189
1990	0.267	0.267
1991	0.157	0.157
1992	0.117	0.117
1993	0.127	0.127
1994	0.183	0.183
1995	0.145	0.145
1996	0.183	0.183
1997	0.206	0.206
1998	0.122	0.122
1999	0.164	0.164
2000	0.151	0.151
2001	0.132	0.132
2002	0.176	0.176
2003	0.290	0.290
2004	0.260	0.260
2005	0.198	0.198
2006	0.206	0.206
2007	0.249	0.249
2008	0.111	0.111
2009	0.102	0.102

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #15

Rank	Predeveloped	Mitigated
1	0.2964	0.2964
2	0.2937	0.2937
3	0.2898	0.2898
4	0.2880	0.2880
5	0.2668	0.2668
6	0.2627	0.2627
7	0.2598	0.2598
8	0.2582	0.2582
9	0.2575	0.2575
10	0.2486	0.2486
11	0.2392	0.2392
12	0.2374	0.2374
13	0.2357	0.2357

14	0.2266	0.2266
15	0.2250	0.2250
16	0.2245	0.2245
17	0.2224	0.2224
18	0.2204	0.2204
19	0.2202	0.2202
20	0.2169	0.2169
21	0.2124	0.2124
22	0.2107	0.2107
23	0.2083	0.2083
24	0.2081	0.2081
25	0.2066	0.2066
26	0.2064	0.2064
27	0.2059	0.2059
28	0.1977	0.1977
29	0.1903	0.1903
30	0.1901	0.1901
31	0.1888	0.1888
32	0.1877	0.1877
33	0.1854	0.1854
34	0.1845	0.1845
35	0.1833	0.1833
36	0.1827	0.1827
37	0.1759	0.1759
38	0.1676	0.1676
39	0.1653	0.1653
40	0.1638	0.1638
41	0.1619	0.1619
42	0.1571	0.1571
43	0.1514	0.1514
44	0.1512	0.1512
45	0.1506	0.1506
46	0.1450	0.1450
47	0.1318	0.1318
48	0.1270	0.1270
49	0.1262	0.1262
50	0.1224	0.1224
51	0.1172	0.1172
52	0.1165	0.1165
53	0.1112	0.1112
54	0.1019	0.1019

Stream Protection Duration

POC #15

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0973	800	800	100	Pass
0.0995	758	758	100	Pass
0.1017	702	702	100	Pass
0.1039	659	659	100	Pass
0.1061	603	603	100	Pass
0.1082	563	563	100	Pass
0.1104	533	533	100	Pass

0.1126	490	490	100	Pass
0.1148	463	463	100	Pass
0.1170	428	428	100	Pass
0.1192	380	380	100	Pass
0.1214	362	362	100	Pass
0.1235	346	346	100	Pass
0.1257	332	332	100	Pass
0.1279	311	311	100	Pass
0.1301	280	280	100	Pass
0.1323	251	251	100	Pass
0.1345	241	241	100	Pass
0.1367	228	228	100	Pass
0.1388	213	213	100	Pass
0.1410	199	199	100	Pass
0.1432	192	192	100	Pass
0.1454	185	185	100	Pass
0.1476	174	174	100	Pass
0.1498	166	166	100	Pass
0.1519	159	159	100	Pass
0.1541	145	145	100	Pass
0.1563	141	141	100	Pass
0.1585	133	133	100	Pass
0.1607	129	129	100	Pass
0.1629	120	120	100	Pass
0.1651	114	114	100	Pass
0.1672	107	107	100	Pass
0.1694	102	102	100	Pass
0.1716	97	97	100	Pass
0.1738	93	93	100	Pass
0.1760	92	92	100	Pass
0.1782	83	83	100	Pass
0.1804	79	79	100	Pass
0.1825	77	77	100	Pass
0.1847	73	73	100	Pass
0.1869	68	68	100	Pass
0.1891	63	63	100	Pass
0.1913	59	59	100	Pass
0.1935	57	57	100	Pass
0.1956	54	54	100	Pass
0.1978	52	52	100	Pass
0.2000	48	48	100	Pass
0.2022	48	48	100	Pass
0.2044	48	48	100	Pass
0.2066	45	45	100	Pass
0.2088	43	43	100	Pass
0.2109	40	40	100	Pass
0.2131	36	36	100	Pass
0.2153	35	35	100	Pass
0.2175	32	32	100	Pass
0.2197	32	32	100	Pass
0.2219	30	30	100	Pass
0.2241	28	28	100	Pass
0.2262	26	26	100	Pass
0.2284	23	23	100	Pass
0.2306	23	23	100	Pass
0.2328	22	22	100	Pass
0.2350	21	21	100	Pass

0.2372	19	19	100	Pass
0.2393	15	15	100	Pass
0.2415	14	14	100	Pass
0.2437	14	14	100	Pass
0.2459	13	13	100	Pass
0.2481	12	12	100	Pass
0.2503	11	11	100	Pass
0.2525	11	11	100	Pass
0.2546	11	11	100	Pass
0.2568	11	11	100	Pass
0.2590	9	9	100	Pass
0.2612	8	8	100	Pass
0.2634	7	7	100	Pass
0.2656	7	7	100	Pass
0.2678	6	6	100	Pass
0.2699	6	6	100	Pass
0.2721	6	6	100	Pass
0.2743	6	6	100	Pass
0.2765	6	6	100	Pass
0.2787	5	5	100	Pass
0.2809	5	5	100	Pass
0.2831	4	4	100	Pass
0.2852	4	4	100	Pass
0.2874	4	4	100	Pass
0.2896	3	3	100	Pass
0.2918	2	2	100	Pass
0.2940	2	2	100	Pass
0.2962	1	1	100	Pass
0.2983	0	0	100	Pass
0.3005	0	0	0	Pass
0.3027	0	0	0	Pass
0.3049	0	0	0	Pass
0.3071	0	0	0	Pass
0.3093	0	0	0	Pass
0.3115	0	0	0	Pass
0.3136	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #15
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 15

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	13.8827	13.8827	100.0	Pass
Feb	10.6947	10.6947	100.0	Pass
Mar	9.4246	9.4246	100.0	Pass
Apr	5.1130	5.1130	100.0	Pass
May	2.5219	2.5219	100.0	Pass
Jun	1.6045	1.6045	100.0	Pass

Jul	0.7566	0.7566	100.0	Pass
Aug	1.0983	1.0983	100.0	Pass
Sep	2.6872	2.6872	100.0	Pass
Oct	7.0517	7.0517	100.0	Pass
Nov	12.8529	12.8529	100.0	Pass
Dec	13.3959	13.3959	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4421	0.4421	100.0	Pass
2	0.3624	0.3624	100.0	Pass
3	0.4376	0.4376	100.0	Pass
4	0.4991	0.4991	100.0	Pass
5	0.3946	0.3946	100.0	Pass
6	0.5421	0.5421	100.0	Pass
7	0.4553	0.4553	100.0	Pass
8	0.4487	0.4487	100.0	Pass
9	0.4649	0.4649	100.0	Pass
10	0.4648	0.4648	100.0	Pass
11	0.5529	0.5529	100.0	Pass
12	0.4595	0.4595	100.0	Pass
13	0.5487	0.5487	100.0	Pass
14	0.5565	0.5565	100.0	Pass
15	0.5168	0.5168	100.0	Pass
16	0.4447	0.4447	100.0	Pass
17	0.4196	0.4196	100.0	Pass
18	0.3713	0.3713	100.0	Pass
19	0.3592	0.3592	100.0	Pass
20	0.2558	0.2558	100.0	Pass
21	0.4037	0.4037	100.0	Pass
22	0.5137	0.5137	100.0	Pass
23	0.5873	0.5873	100.0	Pass
24	0.4373	0.4373	100.0	Pass
25	0.3721	0.3721	100.0	Pass
26	0.3353	0.3353	100.0	Pass
27	0.3902	0.3902	100.0	Pass
28	0.4878	0.4878	100.0	Pass
29	0.3996	0.3996	100.0	Pass
30	0.4489	0.4489	100.0	Pass
31	0.3021	0.3021	100.0	Pass
Feb1	0.3211	0.3211	100.0	Pass
2	0.2883	0.2883	100.0	Pass
3	0.2652	0.2652	100.0	Pass
4	0.2458	0.2458	100.0	Pass
5	0.4093	0.4093	100.0	Pass
6	0.2486	0.2486	100.0	Pass
7	0.3152	0.3152	100.0	Pass
8	0.2541	0.2541	100.0	Pass
9	0.2852	0.2852	100.0	Pass
10	0.3703	0.3703	100.0	Pass
11	0.4965	0.4965	100.0	Pass
12	0.4186	0.4186	100.0	Pass
13	0.4322	0.4322	100.0	Pass
14	0.5765	0.5765	100.0	Pass
15	0.4670	0.4670	100.0	Pass
16	0.5687	0.5687	100.0	Pass
17	0.5215	0.5215	100.0	Pass
18	0.4380	0.4380	100.0	Pass

19	0.3765	0.3765	100.0	Pass
20	0.3564	0.3564	100.0	Pass
21	0.2925	0.2925	100.0	Pass
22	0.3973	0.3973	100.0	Pass
23	0.3867	0.3867	100.0	Pass
24	0.4235	0.4235	100.0	Pass
25	0.3898	0.3898	100.0	Pass
26	0.3877	0.3877	100.0	Pass
27	0.3439	0.3439	100.0	Pass
28	0.4518	0.4518	100.0	Pass
29	0.3249	0.3249	100.0	Pass
Mar1	0.3156	0.3156	100.0	Pass
2	0.2664	0.2664	100.0	Pass
3	0.3483	0.3483	100.0	Pass
4	0.3701	0.3701	100.0	Pass
5	0.3023	0.3023	100.0	Pass
6	0.3738	0.3738	100.0	Pass
7	0.3596	0.3596	100.0	Pass
8	0.3576	0.3576	100.0	Pass
9	0.3587	0.3587	100.0	Pass
10	0.3214	0.3214	100.0	Pass
11	0.3405	0.3405	100.0	Pass
12	0.3040	0.3040	100.0	Pass
13	0.3584	0.3584	100.0	Pass
14	0.2977	0.2977	100.0	Pass
15	0.2456	0.2456	100.0	Pass
16	0.2297	0.2297	100.0	Pass
17	0.3017	0.3017	100.0	Pass
18	0.2004	0.2004	100.0	Pass
19	0.2705	0.2705	100.0	Pass
20	0.2275	0.2275	100.0	Pass
21	0.3558	0.3558	100.0	Pass
22	0.4051	0.4051	100.0	Pass
23	0.3605	0.3605	100.0	Pass
24	0.2530	0.2530	100.0	Pass
25	0.3391	0.3391	100.0	Pass
26	0.2676	0.2676	100.0	Pass
27	0.2454	0.2454	100.0	Pass
28	0.2748	0.2748	100.0	Pass
29	0.2512	0.2512	100.0	Pass
30	0.1981	0.1981	100.0	Pass
31	0.1594	0.1594	100.0	Pass
Apr1	0.1622	0.1622	100.0	Pass
2	0.1769	0.1769	100.0	Pass
3	0.2290	0.2290	100.0	Pass
4	0.2199	0.2199	100.0	Pass
5	0.2428	0.2428	100.0	Pass
6	0.1443	0.1443	100.0	Pass
7	0.2046	0.2046	100.0	Pass
8	0.2141	0.2141	100.0	Pass
9	0.1883	0.1883	100.0	Pass
10	0.1923	0.1923	100.0	Pass
11	0.2421	0.2421	100.0	Pass
12	0.2224	0.2224	100.0	Pass
13	0.2270	0.2270	100.0	Pass
14	0.2016	0.2016	100.0	Pass
15	0.2142	0.2142	100.0	Pass

16	0.1325	0.1325	100.0	Pass
17	0.1591	0.1591	100.0	Pass
18	0.1792	0.1792	100.0	Pass
19	0.1122	0.1122	100.0	Pass
20	0.1001	0.1001	100.0	Pass
21	0.1522	0.1522	100.0	Pass
22	0.1318	0.1318	100.0	Pass
23	0.1198	0.1198	100.0	Pass
24	0.0982	0.0982	100.0	Pass
25	0.1103	0.1103	100.0	Pass
26	0.1836	0.1836	100.0	Pass
27	0.1503	0.1503	100.0	Pass
28	0.1566	0.1566	100.0	Pass
29	0.0864	0.0864	100.0	Pass
30	0.0979	0.0979	100.0	Pass
May1	0.1423	0.1423	100.0	Pass
2	0.1136	0.1136	100.0	Pass
3	0.1158	0.1158	100.0	Pass
4	0.0965	0.0965	100.0	Pass
5	0.0904	0.0904	100.0	Pass
6	0.0760	0.0760	100.0	Pass
7	0.0963	0.0963	100.0	Pass
8	0.0644	0.0644	100.0	Pass
9	0.0819	0.0819	100.0	Pass
10	0.0669	0.0669	100.0	Pass
11	0.0621	0.0621	100.0	Pass
12	0.0871	0.0871	100.0	Pass
13	0.0936	0.0936	100.0	Pass
14	0.0915	0.0915	100.0	Pass
15	0.0681	0.0681	100.0	Pass
16	0.0796	0.0796	100.0	Pass
17	0.0682	0.0682	100.0	Pass
18	0.1010	0.1010	100.0	Pass
19	0.0600	0.0600	100.0	Pass
20	0.0547	0.0547	100.0	Pass
21	0.0559	0.0559	100.0	Pass
22	0.0653	0.0653	100.0	Pass
23	0.0602	0.0602	100.0	Pass
24	0.0633	0.0633	100.0	Pass
25	0.0544	0.0544	100.0	Pass
26	0.0883	0.0883	100.0	Pass
27	0.0729	0.0729	100.0	Pass
28	0.0770	0.0770	100.0	Pass
29	0.1048	0.1048	100.0	Pass
30	0.0721	0.0721	100.0	Pass
31	0.0779	0.0779	100.0	Pass
Jun1	0.0619	0.0619	100.0	Pass
2	0.0881	0.0881	100.0	Pass
3	0.0845	0.0845	100.0	Pass
4	0.0641	0.0641	100.0	Pass
5	0.1005	0.1005	100.0	Pass
6	0.0457	0.0457	100.0	Pass
7	0.0626	0.0626	100.0	Pass
8	0.0845	0.0845	100.0	Pass
9	0.0655	0.0655	100.0	Pass
10	0.0600	0.0600	100.0	Pass
11	0.0452	0.0452	100.0	Pass

12	0.0514	0.0514	100.0	Pass
13	0.0815	0.0815	100.0	Pass
14	0.0388	0.0388	100.0	Pass
15	0.0684	0.0684	100.0	Pass
16	0.0348	0.0348	100.0	Pass
17	0.0439	0.0439	100.0	Pass
18	0.0328	0.0328	100.0	Pass
19	0.0341	0.0341	100.0	Pass
20	0.0358	0.0358	100.0	Pass
21	0.0374	0.0374	100.0	Pass
22	0.0221	0.0221	100.0	Pass
23	0.0956	0.0956	100.0	Pass
24	0.0340	0.0340	100.0	Pass
25	0.0461	0.0461	100.0	Pass
26	0.0281	0.0281	100.0	Pass
27	0.0240	0.0240	100.0	Pass
28	0.0242	0.0242	100.0	Pass
29	0.0310	0.0310	100.0	Pass
30	0.0689	0.0689	100.0	Pass
Jul1	0.0209	0.0209	100.0	Pass
2	0.0162	0.0162	100.0	Pass
3	0.0163	0.0163	100.0	Pass
4	0.0364	0.0364	100.0	Pass
5	0.0281	0.0281	100.0	Pass
6	0.0215	0.0215	100.0	Pass
7	0.0429	0.0429	100.0	Pass
8	0.0273	0.0273	100.0	Pass
9	0.0507	0.0507	100.0	Pass
10	0.0353	0.0353	100.0	Pass
11	0.0728	0.0728	100.0	Pass
12	0.0454	0.0454	100.0	Pass
13	0.0317	0.0317	100.0	Pass
14	0.0418	0.0418	100.0	Pass
15	0.0185	0.0185	100.0	Pass
16	0.0115	0.0115	100.0	Pass
17	0.0342	0.0342	100.0	Pass
18	0.0143	0.0143	100.0	Pass
19	0.0152	0.0152	100.0	Pass
20	0.0242	0.0242	100.0	Pass
21	0.0208	0.0208	100.0	Pass
22	0.0036	0.0036	100.0	Pass
23	0.0060	0.0060	100.0	Pass
24	0.0063	0.0063	100.0	Pass
25	0.0131	0.0131	100.0	Pass
26	0.0055	0.0055	100.0	Pass
27	0.0082	0.0082	100.0	Pass
28	0.0069	0.0069	100.0	Pass
29	0.0046	0.0046	100.0	Pass
30	0.0076	0.0076	100.0	Pass
31	0.0088	0.0088	100.0	Pass
Aug1	0.0363	0.0363	100.0	Pass
2	0.0145	0.0145	100.0	Pass
3	0.0064	0.0064	100.0	Pass
4	0.0057	0.0057	100.0	Pass
5	0.0425	0.0425	100.0	Pass
6	0.0303	0.0303	100.0	Pass
7	0.0122	0.0122	100.0	Pass

8	0.0112	0.0112	100.0	Pass
9	0.0014	0.0014	100.0	Pass
10	0.0056	0.0056	100.0	Pass
11	0.0264	0.0264	100.0	Pass
12	0.0230	0.0230	100.0	Pass
13	0.0293	0.0293	100.0	Pass
14	0.0197	0.0197	100.0	Pass
15	0.0186	0.0186	100.0	Pass
16	0.0150	0.0150	100.0	Pass
17	0.0265	0.0265	100.0	Pass
18	0.0509	0.0509	100.0	Pass
19	0.0173	0.0173	100.0	Pass
20	0.0404	0.0404	100.0	Pass
21	0.0393	0.0393	100.0	Pass
22	0.0748	0.0748	100.0	Pass
23	0.0744	0.0744	100.0	Pass
24	0.0714	0.0714	100.0	Pass
25	0.0331	0.0331	100.0	Pass
26	0.0740	0.0740	100.0	Pass
27	0.0784	0.0784	100.0	Pass
28	0.0815	0.0815	100.0	Pass
29	0.0528	0.0528	100.0	Pass
30	0.0768	0.0768	100.0	Pass
31	0.1249	0.1249	100.0	Pass
Sep1	0.0604	0.0604	100.0	Pass
2	0.0561	0.0561	100.0	Pass
3	0.0572	0.0572	100.0	Pass
4	0.0679	0.0679	100.0	Pass
5	0.0595	0.0595	100.0	Pass
6	0.0424	0.0424	100.0	Pass
7	0.0736	0.0736	100.0	Pass
8	0.0513	0.0513	100.0	Pass
9	0.1187	0.1187	100.0	Pass
10	0.0349	0.0349	100.0	Pass
11	0.0269	0.0269	100.0	Pass
12	0.0630	0.0630	100.0	Pass
13	0.1199	0.1199	100.0	Pass
14	0.0836	0.0836	100.0	Pass
15	0.1204	0.1204	100.0	Pass
16	0.1367	0.1367	100.0	Pass
17	0.1435	0.1435	100.0	Pass
18	0.1306	0.1306	100.0	Pass
19	0.1438	0.1438	100.0	Pass
20	0.1134	0.1134	100.0	Pass
21	0.1507	0.1507	100.0	Pass
22	0.1233	0.1233	100.0	Pass
23	0.0965	0.0965	100.0	Pass
24	0.0695	0.0695	100.0	Pass
25	0.0684	0.0684	100.0	Pass
26	0.0690	0.0690	100.0	Pass
27	0.0955	0.0955	100.0	Pass
28	0.0815	0.0815	100.0	Pass
29	0.1044	0.1044	100.0	Pass
30	0.0818	0.0818	100.0	Pass
Oct1	0.0600	0.0600	100.0	Pass
2	0.1291	0.1291	100.0	Pass
3	0.1198	0.1198	100.0	Pass

4	0.1501	0.1501	100.0	Pass
5	0.1613	0.1613	100.0	Pass
6	0.1768	0.1768	100.0	Pass
7	0.2289	0.2289	100.0	Pass
8	0.1960	0.1960	100.0	Pass
9	0.1566	0.1566	100.0	Pass
10	0.1292	0.1292	100.0	Pass
11	0.2189	0.2189	100.0	Pass
12	0.1599	0.1599	100.0	Pass
13	0.2084	0.2084	100.0	Pass
14	0.1365	0.1365	100.0	Pass
15	0.1504	0.1504	100.0	Pass
16	0.1996	0.1996	100.0	Pass
17	0.1855	0.1855	100.0	Pass
18	0.2891	0.2891	100.0	Pass
19	0.3628	0.3628	100.0	Pass
20	0.3183	0.3183	100.0	Pass
21	0.3819	0.3819	100.0	Pass
22	0.2524	0.2524	100.0	Pass
23	0.3728	0.3728	100.0	Pass
24	0.3371	0.3371	100.0	Pass
25	0.3069	0.3069	100.0	Pass
26	0.3597	0.3597	100.0	Pass
27	0.3200	0.3200	100.0	Pass
28	0.2964	0.2964	100.0	Pass
29	0.2570	0.2570	100.0	Pass
30	0.3490	0.3490	100.0	Pass
31	0.3131	0.3131	100.0	Pass
Nov1	0.3849	0.3849	100.0	Pass
2	0.4475	0.4475	100.0	Pass
3	0.3815	0.3815	100.0	Pass
4	0.3726	0.3726	100.0	Pass
5	0.4102	0.4102	100.0	Pass
6	0.3582	0.3582	100.0	Pass
7	0.3234	0.3234	100.0	Pass
8	0.3913	0.3913	100.0	Pass
9	0.4648	0.4648	100.0	Pass
10	0.4133	0.4133	100.0	Pass
11	0.4543	0.4543	100.0	Pass
12	0.4214	0.4214	100.0	Pass
13	0.3414	0.3414	100.0	Pass
14	0.3720	0.3720	100.0	Pass
15	0.4137	0.4137	100.0	Pass
16	0.4309	0.4309	100.0	Pass
17	0.4044	0.4044	100.0	Pass
18	0.5690	0.5690	100.0	Pass
19	0.5314	0.5314	100.0	Pass
20	0.3796	0.3796	100.0	Pass
21	0.5397	0.5397	100.0	Pass
22	0.6221	0.6221	100.0	Pass
23	0.5155	0.5155	100.0	Pass
24	0.5701	0.5701	100.0	Pass
25	0.4112	0.4112	100.0	Pass
26	0.3338	0.3338	100.0	Pass
27	0.3706	0.3706	100.0	Pass
28	0.3553	0.3553	100.0	Pass
29	0.5565	0.5565	100.0	Pass

30	0.4790	0.4790	100.0	Pass
Dec1	0.5154	0.5154	100.0	Pass
2	0.5115	0.5115	100.0	Pass
3	0.3522	0.3522	100.0	Pass
4	0.3648	0.3648	100.0	Pass
5	0.3238	0.3238	100.0	Pass
6	0.2750	0.2750	100.0	Pass
7	0.3688	0.3688	100.0	Pass
8	0.4616	0.4616	100.0	Pass
9	0.4754	0.4754	100.0	Pass
10	0.5173	0.5173	100.0	Pass
11	0.3944	0.3944	100.0	Pass
12	0.4128	0.4128	100.0	Pass
13	0.5783	0.5783	100.0	Pass
14	0.4468	0.4468	100.0	Pass
15	0.5401	0.5401	100.0	Pass
16	0.4011	0.4011	100.0	Pass
17	0.4458	0.4458	100.0	Pass
18	0.3780	0.3780	100.0	Pass
19	0.4200	0.4200	100.0	Pass
20	0.4245	0.4245	100.0	Pass
21	0.4673	0.4673	100.0	Pass
22	0.4567	0.4567	100.0	Pass
23	0.4916	0.4916	100.0	Pass
24	0.5349	0.5349	100.0	Pass
25	0.4912	0.4912	100.0	Pass
26	0.4514	0.4514	100.0	Pass
27	0.3169	0.3169	100.0	Pass
28	0.4482	0.4482	100.0	Pass
29	0.3279	0.3279	100.0	Pass
30	0.3237	0.3237	100.0	Pass
31	0.5109	0.5109	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #16

Total Pervious Area:0.109
Total Impervious Area:0.243

Mitigated Landuse Totals for POC #16

Total Pervious Area:0.109
Total Impervious Area:0.243

Flow Frequency Return Periods for Predeveloped. POC #16

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.195585
5 year	0.236681
10 year	0.259217
25 year	0.283798
50 year	0.299878

100 year 0.314414

Flow Frequency Return Periods for Mitigated. POC #16

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.195585
5 year	0.236681
10 year	0.259217
25 year	0.283798
50 year	0.299878
100 year	0.314414

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #16

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.216	0.216
1957	0.257	0.257
1958	0.192	0.192
1959	0.205	0.205
1960	0.214	0.214
1961	0.157	0.157
1962	0.282	0.282
1963	0.255	0.255
1964	0.214	0.214
1965	0.217	0.217
1966	0.217	0.217
1967	0.131	0.131
1968	0.205	0.205
1969	0.199	0.199
1970	0.175	0.175
1971	0.287	0.287
1972	0.246	0.246
1973	0.217	0.217
1974	0.218	0.218
1975	0.188	0.188
1976	0.233	0.233
1977	0.164	0.164
1978	0.287	0.287
1979	0.182	0.182
1980	0.165	0.165
1981	0.210	0.210
1982	0.242	0.242
1983	0.191	0.191
1984	0.183	0.183
1985	0.127	0.127
1986	0.218	0.218
1987	0.151	0.151
1988	0.233	0.233
1989	0.190	0.190
1990	0.258	0.258
1991	0.156	0.156
1992	0.122	0.122
1993	0.135	0.135
1994	0.184	0.184
1995	0.163	0.163
1996	0.201	0.201
1997	0.210	0.210

1998	0.128	0.128
1999	0.166	0.166
2000	0.152	0.152
2001	0.141	0.141
2002	0.206	0.206
2003	0.278	0.278
2004	0.254	0.254
2005	0.197	0.197
2006	0.202	0.202
2007	0.241	0.241
2008	0.117	0.117
2009	0.110	0.110

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #16

Rank	Predeveloped	Mitigated
1	0.2869	0.2869
2	0.2867	0.2867
3	0.2821	0.2821
4	0.2775	0.2775
5	0.2579	0.2579
6	0.2567	0.2567
7	0.2550	0.2550
8	0.2535	0.2535
9	0.2457	0.2457
10	0.2416	0.2416
11	0.2412	0.2412
12	0.2326	0.2326
13	0.2326	0.2326
14	0.2181	0.2181
15	0.2179	0.2179
16	0.2173	0.2173
17	0.2171	0.2171
18	0.2169	0.2169
19	0.2156	0.2156
20	0.2143	0.2143
21	0.2140	0.2140
22	0.2100	0.2100
23	0.2097	0.2097
24	0.2056	0.2056
25	0.2048	0.2048
26	0.2047	0.2047
27	0.2024	0.2024
28	0.2015	0.2015
29	0.1989	0.1989
30	0.1967	0.1967
31	0.1921	0.1921
32	0.1912	0.1912
33	0.1900	0.1900
34	0.1885	0.1885
35	0.1836	0.1836
36	0.1827	0.1827
37	0.1822	0.1822
38	0.1749	0.1749
39	0.1660	0.1660
40	0.1649	0.1649

41	0.1638	0.1638
42	0.1627	0.1627
43	0.1572	0.1572
44	0.1555	0.1555
45	0.1521	0.1521
46	0.1507	0.1507
47	0.1407	0.1407
48	0.1349	0.1349
49	0.1306	0.1306
50	0.1285	0.1285
51	0.1269	0.1269
52	0.1221	0.1221
53	0.1173	0.1173
54	0.1095	0.1095

Stream Protection Duration

POC #16

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0978	976	976	100	Pass
0.0998	896	896	100	Pass
0.1019	828	828	100	Pass
0.1039	779	779	100	Pass
0.1060	729	729	100	Pass
0.1080	675	675	100	Pass
0.1100	596	596	100	Pass
0.1121	569	569	100	Pass
0.1141	532	532	100	Pass
0.1162	487	487	100	Pass
0.1182	457	457	100	Pass
0.1202	423	423	100	Pass
0.1223	398	398	100	Pass
0.1243	377	377	100	Pass
0.1264	354	354	100	Pass
0.1284	330	330	100	Pass
0.1305	307	307	100	Pass
0.1325	287	287	100	Pass
0.1345	268	268	100	Pass
0.1366	249	249	100	Pass
0.1386	228	228	100	Pass
0.1407	221	221	100	Pass
0.1427	213	213	100	Pass
0.1447	204	204	100	Pass
0.1468	190	190	100	Pass
0.1488	177	177	100	Pass
0.1509	173	173	100	Pass
0.1529	160	160	100	Pass
0.1549	152	152	100	Pass
0.1570	145	145	100	Pass
0.1590	136	136	100	Pass
0.1611	129	129	100	Pass
0.1631	123	123	100	Pass
0.1652	112	112	100	Pass

0.1672	106	106	100	Pass
0.1692	100	100	100	Pass
0.1713	96	96	100	Pass
0.1733	93	93	100	Pass
0.1754	90	90	100	Pass
0.1774	87	87	100	Pass
0.1794	81	81	100	Pass
0.1815	80	80	100	Pass
0.1835	75	75	100	Pass
0.1856	71	71	100	Pass
0.1876	69	69	100	Pass
0.1896	65	65	100	Pass
0.1917	62	62	100	Pass
0.1937	53	53	100	Pass
0.1958	51	51	100	Pass
0.1978	50	50	100	Pass
0.1999	48	48	100	Pass
0.2019	48	48	100	Pass
0.2039	44	44	100	Pass
0.2060	42	42	100	Pass
0.2080	40	40	100	Pass
0.2101	36	36	100	Pass
0.2121	35	35	100	Pass
0.2141	34	34	100	Pass
0.2162	31	31	100	Pass
0.2182	27	27	100	Pass
0.2203	24	24	100	Pass
0.2223	24	24	100	Pass
0.2244	24	24	100	Pass
0.2264	23	23	100	Pass
0.2284	21	21	100	Pass
0.2305	20	20	100	Pass
0.2325	19	19	100	Pass
0.2346	16	16	100	Pass
0.2366	15	15	100	Pass
0.2386	15	15	100	Pass
0.2407	15	15	100	Pass
0.2427	12	12	100	Pass
0.2448	11	11	100	Pass
0.2468	10	10	100	Pass
0.2488	10	10	100	Pass
0.2509	10	10	100	Pass
0.2529	10	10	100	Pass
0.2550	9	9	100	Pass
0.2570	7	7	100	Pass
0.2591	6	6	100	Pass
0.2611	6	6	100	Pass
0.2631	6	6	100	Pass
0.2652	5	5	100	Pass
0.2672	5	5	100	Pass
0.2693	5	5	100	Pass
0.2713	5	5	100	Pass
0.2733	4	4	100	Pass
0.2754	4	4	100	Pass
0.2774	4	4	100	Pass
0.2795	3	3	100	Pass
0.2815	3	3	100	Pass

0.2835	2	2	100	Pass
0.2856	2	2	100	Pass
0.2876	0	0	100	Pass
0.2897	0	0	0	Pass
0.2917	0	0	0	Pass
0.2938	0	0	0	Pass
0.2958	0	0	0	Pass
0.2978	0	0	0	Pass
0.2999	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #16
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 16

Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	13.0830	13.0830	100.0	Pass
Feb	10.0394	10.0394	100.0	Pass
Mar	8.8719	8.8719	100.0	Pass
Apr	4.8860	4.8860	100.0	Pass
May	2.5287	2.5287	100.0	Pass
Jun	1.6494	1.6494	100.0	Pass
Jul	0.8009	0.8009	100.0	Pass
Aug	1.1864	1.1864	100.0	Pass
Sep	2.7812	2.7812	100.0	Pass
Oct	7.0135	7.0135	100.0	Pass
Nov	12.2888	12.2888	100.0	Pass
Dec	12.6229	12.6229	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	0.4185	0.4185	100.0	Pass
2	0.3344	0.3344	100.0	Pass
3	0.4175	0.4175	100.0	Pass
4	0.4850	0.4850	100.0	Pass
5	0.3639	0.3639	100.0	Pass
6	0.5288	0.5288	100.0	Pass
7	0.4221	0.4221	100.0	Pass
8	0.4210	0.4210	100.0	Pass
9	0.4443	0.4443	100.0	Pass
10	0.4362	0.4362	100.0	Pass
11	0.5282	0.5282	100.0	Pass
12	0.4238	0.4238	100.0	Pass
13	0.5233	0.5233	100.0	Pass
14	0.5253	0.5253	100.0	Pass
15	0.4824	0.4824	100.0	Pass
16	0.4030	0.4030	100.0	Pass
17	0.3839	0.3839	100.0	Pass
18	0.3392	0.3392	100.0	Pass
19	0.3347	0.3347	100.0	Pass

20	0.2268	0.2268	100.0	Pass
21	0.4043	0.4043	100.0	Pass
22	0.4984	0.4984	100.0	Pass
23	0.5622	0.5622	100.0	Pass
24	0.3968	0.3968	100.0	Pass
25	0.3367	0.3367	100.0	Pass
26	0.3038	0.3038	100.0	Pass
27	0.3720	0.3720	100.0	Pass
28	0.4703	0.4703	100.0	Pass
29	0.3691	0.3691	100.0	Pass
30	0.4280	0.4280	100.0	Pass
31	0.2687	0.2687	100.0	Pass
Feb1	0.2979	0.2979	100.0	Pass
2	0.2703	0.2703	100.0	Pass
3	0.2459	0.2459	100.0	Pass
4	0.2278	0.2278	100.0	Pass
5	0.4043	0.4043	100.0	Pass
6	0.2194	0.2194	100.0	Pass
7	0.3025	0.3025	100.0	Pass
8	0.2350	0.2350	100.0	Pass
9	0.2756	0.2756	100.0	Pass
10	0.3636	0.3636	100.0	Pass
11	0.4821	0.4821	100.0	Pass
12	0.3879	0.3879	100.0	Pass
13	0.4105	0.4105	100.0	Pass
14	0.5645	0.5645	100.0	Pass
15	0.4279	0.4279	100.0	Pass
16	0.5453	0.5453	100.0	Pass
17	0.4874	0.4874	100.0	Pass
18	0.3939	0.3939	100.0	Pass
19	0.3411	0.3411	100.0	Pass
20	0.3265	0.3265	100.0	Pass
21	0.2676	0.2676	100.0	Pass
22	0.3808	0.3808	100.0	Pass
23	0.3653	0.3653	100.0	Pass
24	0.4015	0.4015	100.0	Pass
25	0.3628	0.3628	100.0	Pass
26	0.3588	0.3588	100.0	Pass
27	0.3157	0.3157	100.0	Pass
28	0.4227	0.4227	100.0	Pass
29	0.3018	0.3018	100.0	Pass
Mar1	0.2957	0.2957	100.0	Pass
2	0.2445	0.2445	100.0	Pass
3	0.3359	0.3359	100.0	Pass
4	0.3535	0.3535	100.0	Pass
5	0.2818	0.2818	100.0	Pass
6	0.3534	0.3534	100.0	Pass
7	0.3442	0.3442	100.0	Pass
8	0.3371	0.3371	100.0	Pass
9	0.3381	0.3381	100.0	Pass
10	0.2976	0.2976	100.0	Pass
11	0.3202	0.3202	100.0	Pass
12	0.2842	0.2842	100.0	Pass
13	0.3413	0.3413	100.0	Pass
14	0.2752	0.2752	100.0	Pass
15	0.2249	0.2249	100.0	Pass
16	0.2144	0.2144	100.0	Pass

17	0.2877	0.2877	100.0	Pass
18	0.1812	0.1812	100.0	Pass
19	0.2619	0.2619	100.0	Pass
20	0.2141	0.2141	100.0	Pass
21	0.3516	0.3516	100.0	Pass
22	0.3963	0.3963	100.0	Pass
23	0.3363	0.3363	100.0	Pass
24	0.2229	0.2229	100.0	Pass
25	0.3264	0.3264	100.0	Pass
26	0.2446	0.2446	100.0	Pass
27	0.2306	0.2306	100.0	Pass
28	0.2584	0.2584	100.0	Pass
29	0.2365	0.2365	100.0	Pass
30	0.1802	0.1802	100.0	Pass
31	0.1451	0.1451	100.0	Pass
Apr1	0.1526	0.1526	100.0	Pass
2	0.1699	0.1699	100.0	Pass
3	0.2287	0.2287	100.0	Pass
4	0.2113	0.2113	100.0	Pass
5	0.2295	0.2295	100.0	Pass
6	0.1277	0.1277	100.0	Pass
7	0.2007	0.2007	100.0	Pass
8	0.2049	0.2049	100.0	Pass
9	0.1810	0.1810	100.0	Pass
10	0.1813	0.1813	100.0	Pass
11	0.2417	0.2417	100.0	Pass
12	0.2120	0.2120	100.0	Pass
13	0.2196	0.2196	100.0	Pass
14	0.1896	0.1896	100.0	Pass
15	0.2027	0.2027	100.0	Pass
16	0.1166	0.1166	100.0	Pass
17	0.1534	0.1534	100.0	Pass
18	0.1752	0.1752	100.0	Pass
19	0.0994	0.0994	100.0	Pass
20	0.0936	0.0936	100.0	Pass
21	0.1530	0.1530	100.0	Pass
22	0.1289	0.1289	100.0	Pass
23	0.1142	0.1142	100.0	Pass
24	0.0925	0.0925	100.0	Pass
25	0.1091	0.1091	100.0	Pass
26	0.1826	0.1826	100.0	Pass
27	0.1438	0.1438	100.0	Pass
28	0.1501	0.1501	100.0	Pass
29	0.0758	0.0758	100.0	Pass
30	0.0959	0.0959	100.0	Pass
May1	0.1460	0.1460	100.0	Pass
2	0.1089	0.1089	100.0	Pass
3	0.1148	0.1148	100.0	Pass
4	0.0920	0.0920	100.0	Pass
5	0.0879	0.0879	100.0	Pass
6	0.0741	0.0741	100.0	Pass
7	0.0971	0.0971	100.0	Pass
8	0.0609	0.0609	100.0	Pass
9	0.0830	0.0830	100.0	Pass
10	0.0668	0.0668	100.0	Pass
11	0.0626	0.0626	100.0	Pass
12	0.0891	0.0891	100.0	Pass

13	0.0957	0.0957	100.0	Pass
14	0.0936	0.0936	100.0	Pass
15	0.0644	0.0644	100.0	Pass
16	0.0813	0.0813	100.0	Pass
17	0.0674	0.0674	100.0	Pass
18	0.1067	0.1067	100.0	Pass
19	0.0579	0.0579	100.0	Pass
20	0.0554	0.0554	100.0	Pass
21	0.0566	0.0566	100.0	Pass
22	0.0687	0.0687	100.0	Pass
23	0.0611	0.0611	100.0	Pass
24	0.0642	0.0642	100.0	Pass
25	0.0540	0.0540	100.0	Pass
26	0.0925	0.0925	100.0	Pass
27	0.0734	0.0734	100.0	Pass
28	0.0789	0.0789	100.0	Pass
29	0.1077	0.1077	100.0	Pass
30	0.0707	0.0707	100.0	Pass
31	0.0770	0.0770	100.0	Pass
Jun1	0.0587	0.0587	100.0	Pass
2	0.0932	0.0932	100.0	Pass
3	0.0884	0.0884	100.0	Pass
4	0.0643	0.0643	100.0	Pass
5	0.1060	0.1060	100.0	Pass
6	0.0419	0.0419	100.0	Pass
7	0.0626	0.0626	100.0	Pass
8	0.0872	0.0872	100.0	Pass
9	0.0660	0.0660	100.0	Pass
10	0.0621	0.0621	100.0	Pass
11	0.0454	0.0454	100.0	Pass
12	0.0544	0.0544	100.0	Pass
13	0.0868	0.0868	100.0	Pass
14	0.0369	0.0369	100.0	Pass
15	0.0716	0.0716	100.0	Pass
16	0.0326	0.0326	100.0	Pass
17	0.0448	0.0448	100.0	Pass
18	0.0311	0.0311	100.0	Pass
19	0.0358	0.0358	100.0	Pass
20	0.0386	0.0386	100.0	Pass
21	0.0392	0.0392	100.0	Pass
22	0.0217	0.0217	100.0	Pass
23	0.1075	0.1075	100.0	Pass
24	0.0309	0.0309	100.0	Pass
25	0.0485	0.0485	100.0	Pass
26	0.0291	0.0291	100.0	Pass
27	0.0259	0.0259	100.0	Pass
28	0.0265	0.0265	100.0	Pass
29	0.0348	0.0348	100.0	Pass
30	0.0761	0.0761	100.0	Pass
Jul1	0.0198	0.0198	100.0	Pass
2	0.0166	0.0166	100.0	Pass
3	0.0177	0.0177	100.0	Pass
4	0.0424	0.0424	100.0	Pass
5	0.0319	0.0319	100.0	Pass
6	0.0243	0.0243	100.0	Pass
7	0.0474	0.0474	100.0	Pass
8	0.0275	0.0275	100.0	Pass

9	0.0561	0.0561	100.0	Pass
10	0.0371	0.0371	100.0	Pass
11	0.0762	0.0762	100.0	Pass
12	0.0409	0.0409	100.0	Pass
13	0.0297	0.0297	100.0	Pass
14	0.0440	0.0440	100.0	Pass
15	0.0180	0.0180	100.0	Pass
16	0.0113	0.0113	100.0	Pass
17	0.0373	0.0373	100.0	Pass
18	0.0133	0.0133	100.0	Pass
19	0.0157	0.0157	100.0	Pass
20	0.0269	0.0269	100.0	Pass
21	0.0218	0.0218	100.0	Pass
22	0.0024	0.0024	100.0	Pass
23	0.0063	0.0063	100.0	Pass
24	0.0070	0.0070	100.0	Pass
25	0.0154	0.0154	100.0	Pass
26	0.0064	0.0064	100.0	Pass
27	0.0096	0.0096	100.0	Pass
28	0.0080	0.0080	100.0	Pass
29	0.0052	0.0052	100.0	Pass
30	0.0089	0.0089	100.0	Pass
31	0.0103	0.0103	100.0	Pass
Aug1	0.0424	0.0424	100.0	Pass
2	0.0152	0.0152	100.0	Pass
3	0.0060	0.0060	100.0	Pass
4	0.0058	0.0058	100.0	Pass
5	0.0485	0.0485	100.0	Pass
6	0.0329	0.0329	100.0	Pass
7	0.0122	0.0122	100.0	Pass
8	0.0121	0.0121	100.0	Pass
9	0.0010	0.0010	100.0	Pass
10	0.0063	0.0063	100.0	Pass
11	0.0309	0.0309	100.0	Pass
12	0.0265	0.0265	100.0	Pass
13	0.0335	0.0335	100.0	Pass
14	0.0210	0.0210	100.0	Pass
15	0.0191	0.0191	100.0	Pass
16	0.0161	0.0161	100.0	Pass
17	0.0306	0.0306	100.0	Pass
18	0.0591	0.0591	100.0	Pass
19	0.0173	0.0173	100.0	Pass
20	0.0461	0.0461	100.0	Pass
21	0.0430	0.0430	100.0	Pass
22	0.0834	0.0834	100.0	Pass
23	0.0795	0.0795	100.0	Pass
24	0.0710	0.0710	100.0	Pass
25	0.0299	0.0299	100.0	Pass
26	0.0811	0.0811	100.0	Pass
27	0.0835	0.0835	100.0	Pass
28	0.0846	0.0846	100.0	Pass
29	0.0537	0.0537	100.0	Pass
30	0.0841	0.0841	100.0	Pass
31	0.1346	0.1346	100.0	Pass
Sep1	0.0557	0.0557	100.0	Pass
2	0.0553	0.0553	100.0	Pass
3	0.0587	0.0587	100.0	Pass

	4	0.0725	0.0725	100.0	Pass
	5	0.0625	0.0625	100.0	Pass
	6	0.0433	0.0433	100.0	Pass
	7	0.0818	0.0818	100.0	Pass
	8	0.0533	0.0533	100.0	Pass
	9	0.1326	0.1326	100.0	Pass
	10	0.0333	0.0333	100.0	Pass
	11	0.0273	0.0273	100.0	Pass
	12	0.0701	0.0701	100.0	Pass
	13	0.1322	0.1322	100.0	Pass
	14	0.0864	0.0864	100.0	Pass
	15	0.1289	0.1289	100.0	Pass
	16	0.1397	0.1397	100.0	Pass
	17	0.1504	0.1504	100.0	Pass
	18	0.1359	0.1359	100.0	Pass
	19	0.1466	0.1466	100.0	Pass
	20	0.1097	0.1097	100.0	Pass
	21	0.1500	0.1500	100.0	Pass
	22	0.1210	0.1210	100.0	Pass
	23	0.0952	0.0952	100.0	Pass
	24	0.0684	0.0684	100.0	Pass
	25	0.0709	0.0709	100.0	Pass
	26	0.0716	0.0716	100.0	Pass
	27	0.0981	0.0981	100.0	Pass
	28	0.0847	0.0847	100.0	Pass
	29	0.1111	0.1111	100.0	Pass
	30	0.0824	0.0824	100.0	Pass
Oct1		0.0585	0.0585	100.0	Pass
	2	0.1414	0.1414	100.0	Pass
	3	0.1276	0.1276	100.0	Pass
	4	0.1572	0.1572	100.0	Pass
	5	0.1676	0.1676	100.0	Pass
	6	0.1848	0.1848	100.0	Pass
	7	0.2374	0.2374	100.0	Pass
	8	0.1962	0.1962	100.0	Pass
	9	0.1537	0.1537	100.0	Pass
	10	0.1260	0.1260	100.0	Pass
	11	0.2308	0.2308	100.0	Pass
	12	0.1591	0.1591	100.0	Pass
	13	0.2174	0.2174	100.0	Pass
	14	0.1296	0.1296	100.0	Pass
	15	0.1497	0.1497	100.0	Pass
	16	0.2009	0.2009	100.0	Pass
	17	0.1845	0.1845	100.0	Pass
	18	0.2933	0.2933	100.0	Pass
	19	0.3634	0.3634	100.0	Pass
	20	0.3153	0.3153	100.0	Pass
	21	0.3801	0.3801	100.0	Pass
	22	0.2327	0.2327	100.0	Pass
	23	0.3703	0.3703	100.0	Pass
	24	0.3280	0.3280	100.0	Pass
	25	0.2951	0.2951	100.0	Pass
	26	0.3537	0.3537	100.0	Pass
	27	0.3051	0.3051	100.0	Pass
	28	0.2835	0.2835	100.0	Pass
	29	0.2417	0.2417	100.0	Pass
	30	0.3477	0.3477	100.0	Pass

31	0.2993	0.2993	100.0	Pass
Nov1	0.3744	0.3744	100.0	Pass
2	0.4469	0.4469	100.0	Pass
3	0.3583	0.3583	100.0	Pass
4	0.3588	0.3588	100.0	Pass
5	0.3961	0.3961	100.0	Pass
6	0.3359	0.3359	100.0	Pass
7	0.3041	0.3041	100.0	Pass
8	0.3842	0.3842	100.0	Pass
9	0.4547	0.4547	100.0	Pass
10	0.3943	0.3943	100.0	Pass
11	0.4384	0.4384	100.0	Pass
12	0.4058	0.4058	100.0	Pass
13	0.3121	0.3121	100.0	Pass
14	0.3567	0.3567	100.0	Pass
15	0.3995	0.3995	100.0	Pass
16	0.4169	0.4169	100.0	Pass
17	0.3844	0.3844	100.0	Pass
18	0.5573	0.5573	100.0	Pass
19	0.5054	0.5054	100.0	Pass
20	0.3433	0.3433	100.0	Pass
21	0.5219	0.5219	100.0	Pass
22	0.6118	0.6118	100.0	Pass
23	0.4791	0.4791	100.0	Pass
24	0.5421	0.5421	100.0	Pass
25	0.3687	0.3687	100.0	Pass
26	0.2994	0.2994	100.0	Pass
27	0.3530	0.3530	100.0	Pass
28	0.3373	0.3373	100.0	Pass
29	0.5496	0.5496	100.0	Pass
30	0.4496	0.4496	100.0	Pass
Dec1	0.4922	0.4922	100.0	Pass
2	0.4806	0.4806	100.0	Pass
3	0.3156	0.3156	100.0	Pass
4	0.3422	0.3422	100.0	Pass
5	0.2970	0.2970	100.0	Pass
6	0.2558	0.2558	100.0	Pass
7	0.3603	0.3603	100.0	Pass
8	0.4521	0.4521	100.0	Pass
9	0.4539	0.4539	100.0	Pass
10	0.4911	0.4911	100.0	Pass
11	0.3636	0.3636	100.0	Pass
12	0.3894	0.3894	100.0	Pass
13	0.5683	0.5683	100.0	Pass
14	0.4083	0.4083	100.0	Pass
15	0.5204	0.5204	100.0	Pass
16	0.3621	0.3621	100.0	Pass
17	0.4220	0.4220	100.0	Pass
18	0.3504	0.3504	100.0	Pass
19	0.4042	0.4042	100.0	Pass
20	0.4000	0.4000	100.0	Pass
21	0.4403	0.4403	100.0	Pass
22	0.4324	0.4324	100.0	Pass
23	0.4683	0.4683	100.0	Pass
24	0.5158	0.5158	100.0	Pass
25	0.4559	0.4559	100.0	Pass
26	0.4167	0.4167	100.0	Pass

27	0.2841	0.2841	100.0	Pass
28	0.4329	0.4329	100.0	Pass
29	0.2955	0.2955	100.0	Pass
30	0.3027	0.3027	100.0	Pass
31	0.5001	0.5001	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #17

Total Pervious Area:0.438
 Total Impervious Area:0.868

Mitigated Landuse Totals for POC #17

Total Pervious Area:0.438
 Total Impervious Area:0.868

Flow Frequency Return Periods for Predeveloped. POC #17

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.714615
5 year	0.867358
10 year	0.951299
25 year	1.042989
50 year	1.103035
100 year	1.157362

Flow Frequency Return Periods for Mitigated. POC #17

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.714615
5 year	0.867358
10 year	0.951299
25 year	1.042989
50 year	1.103035
100 year	1.157362

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #17

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.793	0.793
1957	0.939	0.939
1958	0.700	0.700
1959	0.752	0.752
1960	0.788	0.788
1961	0.570	0.570
1962	1.037	1.037
1963	0.936	0.936
1964	0.782	0.782
1965	0.795	0.795
1966	0.798	0.798
1967	0.475	0.475

1968	0.750	0.750
1969	0.731	0.731
1970	0.636	0.636
1971	1.054	1.054
1972	0.904	0.904
1973	0.794	0.794
1974	0.802	0.802
1975	0.690	0.690
1976	0.853	0.853
1977	0.598	0.598
1978	1.049	1.049
1979	0.667	0.667
1980	0.602	0.602
1981	0.766	0.766
1982	0.882	0.882
1983	0.699	0.699
1984	0.669	0.669
1985	0.459	0.459
1986	0.798	0.798
1987	0.551	0.551
1988	0.852	0.852
1989	0.694	0.694
1990	0.948	0.948
1991	0.569	0.569
1992	0.443	0.443
1993	0.489	0.489
1994	0.671	0.671
1995	0.586	0.586
1996	0.727	0.727
1997	0.766	0.766
1998	0.467	0.467
1999	0.606	0.606
2000	0.556	0.556
2001	0.510	0.510
2002	0.737	0.737
2003	1.021	1.021
2004	0.930	0.930
2005	0.720	0.720
2006	0.742	0.742
2007	0.886	0.886
2008	0.426	0.426
2009	0.397	0.397

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #17

Rank	Predeveloped	Mitigated
1	1.0539	1.0539
2	1.0489	1.0489
3	1.0375	1.0375
4	1.0211	1.0211
5	0.9476	0.9476
6	0.9393	0.9393
7	0.9362	0.9362
8	0.9302	0.9302
9	0.9043	0.9043
10	0.8857	0.8857

11	0.8822	0.8822
12	0.8530	0.8530
13	0.8521	0.8521
14	0.8018	0.8018
15	0.7984	0.7984
16	0.7982	0.7982
17	0.7946	0.7946
18	0.7936	0.7936
19	0.7927	0.7927
20	0.7878	0.7878
21	0.7816	0.7816
22	0.7661	0.7661
23	0.7659	0.7659
24	0.7518	0.7518
25	0.7502	0.7502
26	0.7418	0.7418
27	0.7366	0.7366
28	0.7311	0.7311
29	0.7273	0.7273
30	0.7197	0.7197
31	0.7000	0.7000
32	0.6987	0.6987
33	0.6942	0.6942
34	0.6900	0.6900
35	0.6708	0.6708
36	0.6694	0.6694
37	0.6674	0.6674
38	0.6356	0.6356
39	0.6059	0.6059
40	0.6022	0.6022
41	0.5979	0.5979
42	0.5858	0.5858
43	0.5695	0.5695
44	0.5694	0.5694
45	0.5555	0.5555
46	0.5511	0.5511
47	0.5099	0.5099
48	0.4892	0.4892
49	0.4752	0.4752
50	0.4667	0.4667
51	0.4587	0.4587
52	0.4432	0.4432
53	0.4257	0.4257
54	0.3966	0.3966

Stream Protection Duration

POC #17

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.3573	920	920	100	Pass
0.3648	853	853	100	Pass
0.3724	785	785	100	Pass
0.3799	743	743	100	Pass

0.3874	687	687	100	Pass
0.3950	635	635	100	Pass
0.4025	589	589	100	Pass
0.4100	557	557	100	Pass
0.4176	520	520	100	Pass
0.4251	474	474	100	Pass
0.4326	449	449	100	Pass
0.4402	412	412	100	Pass
0.4477	388	388	100	Pass
0.4552	371	371	100	Pass
0.4628	345	345	100	Pass
0.4703	318	318	100	Pass
0.4778	296	296	100	Pass
0.4854	274	274	100	Pass
0.4929	255	255	100	Pass
0.5004	238	238	100	Pass
0.5080	222	222	100	Pass
0.5155	214	214	100	Pass
0.5230	207	207	100	Pass
0.5306	194	194	100	Pass
0.5381	181	181	100	Pass
0.5456	175	175	100	Pass
0.5532	163	163	100	Pass
0.5607	151	151	100	Pass
0.5682	147	147	100	Pass
0.5758	138	138	100	Pass
0.5833	134	134	100	Pass
0.5908	129	129	100	Pass
0.5984	118	118	100	Pass
0.6059	112	112	100	Pass
0.6134	105	105	100	Pass
0.6209	97	97	100	Pass
0.6285	95	95	100	Pass
0.6360	91	91	100	Pass
0.6435	90	90	100	Pass
0.6511	85	85	100	Pass
0.6586	81	81	100	Pass
0.6661	80	80	100	Pass
0.6737	72	72	100	Pass
0.6812	69	69	100	Pass
0.6887	67	67	100	Pass
0.6963	63	63	100	Pass
0.7038	57	57	100	Pass
0.7113	51	51	100	Pass
0.7189	51	51	100	Pass
0.7264	50	50	100	Pass
0.7339	47	47	100	Pass
0.7415	45	45	100	Pass
0.7490	43	43	100	Pass
0.7565	41	41	100	Pass
0.7641	40	40	100	Pass
0.7716	35	35	100	Pass
0.7791	35	35	100	Pass
0.7867	34	34	100	Pass
0.7942	30	30	100	Pass
0.8017	26	26	100	Pass
0.8093	24	24	100	Pass

0.8168	24	24	100	Pass
0.8243	24	24	100	Pass
0.8319	23	23	100	Pass
0.8394	20	20	100	Pass
0.8469	20	20	100	Pass
0.8545	17	17	100	Pass
0.8620	15	15	100	Pass
0.8695	15	15	100	Pass
0.8771	15	15	100	Pass
0.8846	13	13	100	Pass
0.8921	12	12	100	Pass
0.8997	11	11	100	Pass
0.9072	10	10	100	Pass
0.9147	10	10	100	Pass
0.9223	10	10	100	Pass
0.9298	10	10	100	Pass
0.9373	8	8	100	Pass
0.9449	7	7	100	Pass
0.9524	6	6	100	Pass
0.9599	6	6	100	Pass
0.9674	6	6	100	Pass
0.9750	6	6	100	Pass
0.9825	5	5	100	Pass
0.9900	5	5	100	Pass
0.9976	5	5	100	Pass
1.0051	4	4	100	Pass
1.0126	4	4	100	Pass
1.0202	4	4	100	Pass
1.0277	3	3	100	Pass
1.0352	3	3	100	Pass
1.0428	2	2	100	Pass
1.0503	1	1	100	Pass
1.0578	0	0	100	Pass
1.0654	0	0	0	Pass
1.0729	0	0	0	Pass
1.0804	0	0	0	Pass
1.0880	0	0	0	Pass
1.0955	0	0	0	Pass
1.1030	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #17
 On-line facility volume: 0 acre-feet
 On-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.
 Off-line facility target flow: 0 cfs.
 Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 17
Average Annual Volume (acft)
Month Predevel Mitigated Percent Pass/Fail

Jan	48.2458	48.2458	100.0	Pass
Feb	37.0439	37.0439	100.0	Pass
Mar	32.7221	32.7221	100.0	Pass

Apr	17.9813	17.9813	100.0	Pass
May	9.2424	9.2424	100.0	Pass
Jun	6.0077	6.0077	100.0	Pass
Jul	2.9058	2.9058	100.0	Pass
Aug	4.2928	4.2928	100.0	Pass
Sep	10.1213	10.1213	100.0	Pass
Oct	25.6633	25.6633	100.0	Pass
Nov	45.2221	45.2221	100.0	Pass
Dec	46.5502	46.5502	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.5422	1.5422	100.0	Pass
2	1.2369	1.2369	100.0	Pass
3	1.5367	1.5367	100.0	Pass
4	1.7805	1.7805	100.0	Pass
5	1.3461	1.3461	100.0	Pass
6	1.9405	1.9405	100.0	Pass
7	1.5603	1.5603	100.0	Pass
8	1.5534	1.5534	100.0	Pass
9	1.6351	1.6351	100.0	Pass
10	1.6095	1.6095	100.0	Pass
11	1.9440	1.9440	100.0	Pass
12	1.5679	1.5679	100.0	Pass
13	1.9263	1.9263	100.0	Pass
14	1.9366	1.9366	100.0	Pass
15	1.7816	1.7816	100.0	Pass
16	1.4949	1.4949	100.0	Pass
17	1.4220	1.4220	100.0	Pass
18	1.2568	1.2568	100.0	Pass
19	1.2363	1.2363	100.0	Pass
20	0.8443	0.8443	100.0	Pass
21	1.4779	1.4779	100.0	Pass
22	1.8301	1.8301	100.0	Pass
23	2.0685	2.0685	100.0	Pass
24	1.4715	1.4715	100.0	Pass
25	1.2493	1.2493	100.0	Pass
26	1.1271	1.1271	100.0	Pass
27	1.3694	1.3694	100.0	Pass
28	1.7286	1.7286	100.0	Pass
29	1.3651	1.3651	100.0	Pass
30	1.5757	1.5757	100.0	Pass
31	0.9995	0.9995	100.0	Pass
Feb1	1.1011	1.1011	100.0	Pass
2	0.9975	0.9975	100.0	Pass
3	0.9089	0.9089	100.0	Pass
4	0.8422	0.8422	100.0	Pass
5	1.4809	1.4809	100.0	Pass
6	0.8171	0.8171	100.0	Pass
7	1.1127	1.1127	100.0	Pass
8	0.8691	0.8691	100.0	Pass
9	1.0126	1.0126	100.0	Pass
10	1.3327	1.3327	100.0	Pass
11	1.7702	1.7702	100.0	Pass
12	1.4341	1.4341	100.0	Pass
13	1.5120	1.5120	100.0	Pass
14	2.0701	2.0701	100.0	Pass
15	1.5848	1.5848	100.0	Pass

16	2.0059	2.0059	100.0	Pass
17	1.7995	1.7995	100.0	Pass
18	1.4628	1.4628	100.0	Pass
19	1.2654	1.2654	100.0	Pass
20	1.2090	1.2090	100.0	Pass
21	0.9912	0.9912	100.0	Pass
22	1.4009	1.4009	100.0	Pass
23	1.3466	1.3466	100.0	Pass
24	1.4794	1.4794	100.0	Pass
25	1.3404	1.3404	100.0	Pass
26	1.3266	1.3266	100.0	Pass
27	1.1687	1.1687	100.0	Pass
28	1.5603	1.5603	100.0	Pass
29	1.1153	1.1153	100.0	Pass
Mar1	1.0913	1.0913	100.0	Pass
2	0.9053	0.9053	100.0	Pass
3	1.2345	1.2345	100.0	Pass
4	1.3009	1.3009	100.0	Pass
5	1.0409	1.0409	100.0	Pass
6	1.3026	1.3026	100.0	Pass
7	1.2664	1.2664	100.0	Pass
8	1.2430	1.2430	100.0	Pass
9	1.2467	1.2467	100.0	Pass
10	1.1004	1.1004	100.0	Pass
11	1.1812	1.1812	100.0	Pass
12	1.0494	1.0494	100.0	Pass
13	1.2566	1.2566	100.0	Pass
14	1.0176	1.0176	100.0	Pass
15	0.8328	0.8328	100.0	Pass
16	0.7918	0.7918	100.0	Pass
17	1.0592	1.0592	100.0	Pass
18	0.6724	0.6724	100.0	Pass
19	0.9621	0.9621	100.0	Pass
20	0.7897	0.7897	100.0	Pass
21	1.2878	1.2878	100.0	Pass
22	1.4534	1.4534	100.0	Pass
23	1.2420	1.2420	100.0	Pass
24	0.8306	0.8306	100.0	Pass
25	1.1999	1.1999	100.0	Pass
26	0.9061	0.9061	100.0	Pass
27	0.8507	0.8507	100.0	Pass
28	0.9533	0.9533	100.0	Pass
29	0.8722	0.8722	100.0	Pass
30	0.6682	0.6682	100.0	Pass
31	0.5379	0.5379	100.0	Pass
Apr1	0.5629	0.5629	100.0	Pass
2	0.6247	0.6247	100.0	Pass
3	0.8362	0.8362	100.0	Pass
4	0.7770	0.7770	100.0	Pass
5	0.8461	0.8461	100.0	Pass
6	0.4754	0.4754	100.0	Pass
7	0.7359	0.7359	100.0	Pass
8	0.7540	0.7540	100.0	Pass
9	0.6657	0.6657	100.0	Pass
10	0.6685	0.6685	100.0	Pass
11	0.8840	0.8840	100.0	Pass
12	0.7803	0.7803	100.0	Pass

13	0.8066	0.8066	100.0	Pass
14	0.6994	0.6994	100.0	Pass
15	0.7470	0.7470	100.0	Pass
16	0.4344	0.4344	100.0	Pass
17	0.5637	0.5637	100.0	Pass
18	0.6428	0.6428	100.0	Pass
19	0.3701	0.3701	100.0	Pass
20	0.3456	0.3456	100.0	Pass
21	0.5591	0.5591	100.0	Pass
22	0.4729	0.4729	100.0	Pass
23	0.4203	0.4203	100.0	Pass
24	0.3411	0.3411	100.0	Pass
25	0.3995	0.3995	100.0	Pass
26	0.6683	0.6683	100.0	Pass
27	0.5291	0.5291	100.0	Pass
28	0.5522	0.5522	100.0	Pass
29	0.2825	0.2825	100.0	Pass
30	0.3515	0.3515	100.0	Pass
May1	0.5318	0.5318	100.0	Pass
2	0.4005	0.4005	100.0	Pass
3	0.4203	0.4203	100.0	Pass
4	0.3387	0.3387	100.0	Pass
5	0.3226	0.3226	100.0	Pass
6	0.2718	0.2718	100.0	Pass
7	0.3545	0.3545	100.0	Pass
8	0.2244	0.2244	100.0	Pass
9	0.3031	0.3031	100.0	Pass
10	0.2443	0.2443	100.0	Pass
11	0.2286	0.2286	100.0	Pass
12	0.3246	0.3246	100.0	Pass
13	0.3488	0.3488	100.0	Pass
14	0.3412	0.3412	100.0	Pass
15	0.2374	0.2374	100.0	Pass
16	0.2964	0.2964	100.0	Pass
17	0.2467	0.2467	100.0	Pass
18	0.3874	0.3874	100.0	Pass
19	0.2127	0.2127	100.0	Pass
20	0.2021	0.2021	100.0	Pass
21	0.2066	0.2066	100.0	Pass
22	0.2494	0.2494	100.0	Pass
23	0.2228	0.2228	100.0	Pass
24	0.2342	0.2342	100.0	Pass
25	0.1977	0.1977	100.0	Pass
26	0.3359	0.3359	100.0	Pass
27	0.2681	0.2681	100.0	Pass
28	0.2876	0.2876	100.0	Pass
29	0.3922	0.3922	100.0	Pass
30	0.2592	0.2592	100.0	Pass
31	0.2819	0.2819	100.0	Pass
Jun1	0.2162	0.2162	100.0	Pass
2	0.3380	0.3380	100.0	Pass
3	0.3214	0.3214	100.0	Pass
4	0.2350	0.2350	100.0	Pass
5	0.3849	0.3849	100.0	Pass
6	0.1552	0.1552	100.0	Pass
7	0.2288	0.2288	100.0	Pass
8	0.3175	0.3175	100.0	Pass

9	0.2411	0.2411	100.0	Pass
10	0.2260	0.2260	100.0	Pass
11	0.1660	0.1660	100.0	Pass
12	0.1975	0.1975	100.0	Pass
13	0.3148	0.3148	100.0	Pass
14	0.1361	0.1361	100.0	Pass
15	0.2601	0.2601	100.0	Pass
16	0.1203	0.1203	100.0	Pass
17	0.1633	0.1633	100.0	Pass
18	0.1147	0.1147	100.0	Pass
19	0.1300	0.1300	100.0	Pass
20	0.1398	0.1398	100.0	Pass
21	0.1422	0.1422	100.0	Pass
22	0.0797	0.0797	100.0	Pass
23	0.3869	0.3869	100.0	Pass
24	0.1144	0.1144	100.0	Pass
25	0.1762	0.1762	100.0	Pass
26	0.1058	0.1058	100.0	Pass
27	0.0936	0.0936	100.0	Pass
28	0.0958	0.0958	100.0	Pass
29	0.1253	0.1253	100.0	Pass
30	0.2744	0.2744	100.0	Pass
Jul1	0.0731	0.0731	100.0	Pass
2	0.0604	0.0604	100.0	Pass
3	0.0640	0.0640	100.0	Pass
4	0.1519	0.1519	100.0	Pass
5	0.1147	0.1147	100.0	Pass
6	0.0873	0.0873	100.0	Pass
7	0.1710	0.1710	100.0	Pass
8	0.1005	0.1005	100.0	Pass
9	0.2023	0.2023	100.0	Pass
10	0.1346	0.1346	100.0	Pass
11	0.2769	0.2769	100.0	Pass
12	0.1518	0.1518	100.0	Pass
13	0.1095	0.1095	100.0	Pass
14	0.1597	0.1597	100.0	Pass
15	0.0660	0.0660	100.0	Pass
16	0.0414	0.0414	100.0	Pass
17	0.1349	0.1349	100.0	Pass
18	0.0491	0.0491	100.0	Pass
19	0.0572	0.0572	100.0	Pass
20	0.0971	0.0971	100.0	Pass
21	0.0793	0.0793	100.0	Pass
22	0.0094	0.0094	100.0	Pass
23	0.0228	0.0228	100.0	Pass
24	0.0253	0.0253	100.0	Pass
25	0.0552	0.0552	100.0	Pass
26	0.0228	0.0228	100.0	Pass
27	0.0345	0.0345	100.0	Pass
28	0.0287	0.0287	100.0	Pass
29	0.0186	0.0186	100.0	Pass
30	0.0318	0.0318	100.0	Pass
31	0.0369	0.0369	100.0	Pass
Aug1	0.1520	0.1520	100.0	Pass
2	0.0551	0.0551	100.0	Pass
3	0.0221	0.0221	100.0	Pass
4	0.0213	0.0213	100.0	Pass

5	0.1742	0.1742	100.0	Pass
6	0.1190	0.1190	100.0	Pass
7	0.0445	0.0445	100.0	Pass
8	0.0437	0.0437	100.0	Pass
9	0.0040	0.0040	100.0	Pass
10	0.0226	0.0226	100.0	Pass
11	0.1105	0.1105	100.0	Pass
12	0.0951	0.0951	100.0	Pass
13	0.1203	0.1203	100.0	Pass
14	0.0760	0.0760	100.0	Pass
15	0.0695	0.0695	100.0	Pass
16	0.0582	0.0582	100.0	Pass
17	0.1099	0.1099	100.0	Pass
18	0.2119	0.2119	100.0	Pass
19	0.0631	0.0631	100.0	Pass
20	0.1656	0.1656	100.0	Pass
21	0.1554	0.1554	100.0	Pass
22	0.3005	0.3005	100.0	Pass
23	0.2880	0.2880	100.0	Pass
24	0.2597	0.2597	100.0	Pass
25	0.1109	0.1109	100.0	Pass
26	0.2928	0.2928	100.0	Pass
27	0.3028	0.3028	100.0	Pass
28	0.3079	0.3079	100.0	Pass
29	0.1957	0.1957	100.0	Pass
30	0.3038	0.3038	100.0	Pass
31	0.4870	0.4870	100.0	Pass
Sep1	0.2062	0.2062	100.0	Pass
2	0.2025	0.2025	100.0	Pass
3	0.2138	0.2138	100.0	Pass
4	0.2627	0.2627	100.0	Pass
5	0.2269	0.2269	100.0	Pass
6	0.1578	0.1578	100.0	Pass
7	0.2948	0.2948	100.0	Pass
8	0.1940	0.1940	100.0	Pass
9	0.4777	0.4777	100.0	Pass
10	0.1226	0.1226	100.0	Pass
11	0.0997	0.0997	100.0	Pass
12	0.2526	0.2526	100.0	Pass
13	0.4769	0.4769	100.0	Pass
14	0.3144	0.3144	100.0	Pass
15	0.4671	0.4671	100.0	Pass
16	0.5093	0.5093	100.0	Pass
17	0.5465	0.5465	100.0	Pass
18	0.4941	0.4941	100.0	Pass
19	0.5347	0.5347	100.0	Pass
20	0.4031	0.4031	100.0	Pass
21	0.5487	0.5487	100.0	Pass
22	0.4436	0.4436	100.0	Pass
23	0.3487	0.3487	100.0	Pass
24	0.2505	0.2505	100.0	Pass
25	0.2579	0.2579	100.0	Pass
26	0.2603	0.2603	100.0	Pass
27	0.3574	0.3574	100.0	Pass
28	0.3082	0.3082	100.0	Pass
29	0.4030	0.4030	100.0	Pass
30	0.3009	0.3009	100.0	Pass

Oct1	0.2148	0.2148	100.0	Pass
2	0.5106	0.5106	100.0	Pass
3	0.4626	0.4626	100.0	Pass
4	0.5712	0.5712	100.0	Pass
5	0.6095	0.6095	100.0	Pass
6	0.6715	0.6715	100.0	Pass
7	0.8636	0.8636	100.0	Pass
8	0.7174	0.7174	100.0	Pass
9	0.5636	0.5636	100.0	Pass
10	0.4623	0.4623	100.0	Pass
11	0.8377	0.8377	100.0	Pass
12	0.5821	0.5821	100.0	Pass
13	0.7902	0.7902	100.0	Pass
14	0.4774	0.4774	100.0	Pass
15	0.5476	0.5476	100.0	Pass
16	0.7338	0.7338	100.0	Pass
17	0.6752	0.6752	100.0	Pass
18	1.0701	1.0701	100.0	Pass
19	1.3284	1.3284	100.0	Pass
20	1.1543	1.1543	100.0	Pass
21	1.3906	1.3906	100.0	Pass
22	0.8609	0.8609	100.0	Pass
23	1.3551	1.3551	100.0	Pass
24	1.2039	1.2039	100.0	Pass
25	1.0851	1.0851	100.0	Pass
26	1.2963	1.2963	100.0	Pass
27	1.1232	1.1232	100.0	Pass
28	1.0432	1.0432	100.0	Pass
29	0.8917	0.8917	100.0	Pass
30	1.2720	1.2720	100.0	Pass
31	1.1015	1.1015	100.0	Pass
Nov1	1.3742	1.3742	100.0	Pass
2	1.6345	1.6345	100.0	Pass
3	1.3219	1.3219	100.0	Pass
4	1.3189	1.3189	100.0	Pass
5	1.4554	1.4554	100.0	Pass
6	1.2396	1.2396	100.0	Pass
7	1.1217	1.1217	100.0	Pass
8	1.4083	1.4083	100.0	Pass
9	1.6677	1.6677	100.0	Pass
10	1.4515	1.4515	100.0	Pass
11	1.6111	1.6111	100.0	Pass
12	1.4919	1.4919	100.0	Pass
13	1.1562	1.1562	100.0	Pass
14	1.3121	1.3121	100.0	Pass
15	1.4680	1.4680	100.0	Pass
16	1.5313	1.5313	100.0	Pass
17	1.4157	1.4157	100.0	Pass
18	2.0435	2.0435	100.0	Pass
19	1.8611	1.8611	100.0	Pass
20	1.2737	1.2737	100.0	Pass
21	1.9175	1.9175	100.0	Pass
22	2.2423	2.2423	100.0	Pass
23	1.7705	1.7705	100.0	Pass
24	1.9965	1.9965	100.0	Pass
25	1.3698	1.3698	100.0	Pass
26	1.1124	1.1124	100.0	Pass

27	1.2997	1.2997	100.0	Pass
28	1.2426	1.2426	100.0	Pass
29	2.0132	2.0132	100.0	Pass
30	1.6589	1.6589	100.0	Pass
Dec1	1.8116	1.8116	100.0	Pass
2	1.7729	1.7729	100.0	Pass
3	1.1729	1.1729	100.0	Pass
4	1.2627	1.2627	100.0	Pass
5	1.0998	1.0998	100.0	Pass
6	0.9452	0.9452	100.0	Pass
7	1.3217	1.3217	100.0	Pass
8	1.6580	1.6580	100.0	Pass
9	1.6706	1.6706	100.0	Pass
10	1.8091	1.8091	100.0	Pass
11	1.3452	1.3452	100.0	Pass
12	1.4357	1.4357	100.0	Pass
13	2.0830	2.0830	100.0	Pass
14	1.5126	1.5126	100.0	Pass
15	1.9129	1.9129	100.0	Pass
16	1.3439	1.3439	100.0	Pass
17	1.5551	1.5551	100.0	Pass
18	1.2954	1.2954	100.0	Pass
19	1.4859	1.4859	100.0	Pass
20	1.4752	1.4752	100.0	Pass
21	1.6239	1.6239	100.0	Pass
22	1.5934	1.5934	100.0	Pass
23	1.7243	1.7243	100.0	Pass
24	1.8958	1.8958	100.0	Pass
25	1.6849	1.6849	100.0	Pass
26	1.5413	1.5413	100.0	Pass
27	1.0555	1.0555	100.0	Pass
28	1.5908	1.5908	100.0	Pass
29	1.0970	1.0970	100.0	Pass
30	1.1177	1.1177	100.0	Pass
31	1.8341	1.8341	100.0	Pass

Stream Protection Duration

Predeveloped Landuse Totals for POC #18
Total Pervious Area:0.639
Total Impervious Area:0.521

Mitigated Landuse Totals for POC #18
Total Pervious Area:0.639
Total Impervious Area:0.521

Flow Frequency Return Periods for Predeveloped. POC #18

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.552925
5 year	0.692187

10 year	0.770456
25 year	0.857218
50 year	0.914707
100 year	0.967154

Flow Frequency Return Periods for Mitigated. POC #18

<u>Return Period</u>	<u>Flow(cfs)</u>
2 year	0.552925
5 year	0.692187
10 year	0.770456
25 year	0.857218
50 year	0.914707
100 year	0.967154

Stream Protection Duration

Annual Peaks for Predeveloped and Mitigated. POC #18

<u>Year</u>	<u>Predeveloped</u>	<u>Mitigated</u>
1956	0.652	0.652
1957	0.737	0.737
1958	0.528	0.528
1959	0.608	0.608
1960	0.645	0.645
1961	0.437	0.437
1962	0.853	0.853
1963	0.759	0.759
1964	0.602	0.602
1965	0.631	0.631
1966	0.652	0.652
1967	0.353	0.353
1968	0.597	0.597
1969	0.599	0.599
1970	0.467	0.467
1971	0.857	0.857
1972	0.750	0.750
1973	0.617	0.617
1974	0.657	0.657
1975	0.544	0.544
1976	0.683	0.683
1977	0.458	0.458
1978	0.822	0.822
1979	0.529	0.529
1980	0.473	0.473
1981	0.591	0.591
1982	0.678	0.678
1983	0.540	0.540
1984	0.532	0.532
1985	0.317	0.317
1986	0.631	0.631
1987	0.428	0.428
1988	0.676	0.676
1989	0.536	0.536
1990	0.772	0.772
1991	0.449	0.449
1992	0.332	0.332
1993	0.350	0.350
1994	0.519	0.519

1995	0.388	0.388
1996	0.496	0.496
1997	0.582	0.582
1998	0.340	0.340
1999	0.465	0.465
2000	0.429	0.429
2001	0.362	0.362
2002	0.459	0.459
2003	0.842	0.842
2004	0.749	0.749
2005	0.564	0.564
2006	0.591	0.591
2007	0.718	0.718
2008	0.308	0.308
2009	0.279	0.279

Stream Protection Duration

Ranked Annual Peaks for Predeveloped and Mitigated. POC #18

Rank	Predeveloped	Mitigated
1	0.8575	0.8575
2	0.8526	0.8526
3	0.8422	0.8422
4	0.8218	0.8218
5	0.7721	0.7721
6	0.7590	0.7590
7	0.7497	0.7497
8	0.7486	0.7486
9	0.7370	0.7370
10	0.7182	0.7182
11	0.6828	0.6828
12	0.6777	0.6777
13	0.6756	0.6756
14	0.6573	0.6573
15	0.6517	0.6517
16	0.6516	0.6516
17	0.6448	0.6448
18	0.6314	0.6314
19	0.6310	0.6310
20	0.6172	0.6172
21	0.6081	0.6081
22	0.6022	0.6022
23	0.5990	0.5990
24	0.5973	0.5973
25	0.5910	0.5910
26	0.5909	0.5909
27	0.5824	0.5824
28	0.5643	0.5643
29	0.5436	0.5436
30	0.5405	0.5405
31	0.5358	0.5358
32	0.5316	0.5316
33	0.5285	0.5285
34	0.5279	0.5279
35	0.5190	0.5190
36	0.4960	0.4960
37	0.4725	0.4725

38	0.4666	0.4666
39	0.4651	0.4651
40	0.4587	0.4587
41	0.4583	0.4583
42	0.4493	0.4493
43	0.4366	0.4366
44	0.4292	0.4292
45	0.4284	0.4284
46	0.3878	0.3878
47	0.3623	0.3623
48	0.3530	0.3530
49	0.3502	0.3502
50	0.3399	0.3399
51	0.3320	0.3320
52	0.3168	0.3168
53	0.3079	0.3079
54	0.2790	0.2790

Stream Protection Duration

POC #18

The Facility PASSED

The Facility PASSED.

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.2765	749	749	100	Pass
0.2829	696	696	100	Pass
0.2894	654	654	100	Pass
0.2958	611	611	100	Pass
0.3023	565	565	100	Pass
0.3087	526	526	100	Pass
0.3151	482	482	100	Pass
0.3216	444	444	100	Pass
0.3280	408	408	100	Pass
0.3345	379	379	100	Pass
0.3409	359	359	100	Pass
0.3474	347	347	100	Pass
0.3538	325	325	100	Pass
0.3603	306	306	100	Pass
0.3667	281	281	100	Pass
0.3732	251	251	100	Pass
0.3796	238	238	100	Pass
0.3861	222	222	100	Pass
0.3925	211	211	100	Pass
0.3990	202	202	100	Pass
0.4054	188	188	100	Pass
0.4118	183	183	100	Pass
0.4183	172	172	100	Pass
0.4247	164	164	100	Pass
0.4312	153	153	100	Pass
0.4376	144	144	100	Pass
0.4441	139	139	100	Pass
0.4505	128	128	100	Pass
0.4570	126	126	100	Pass
0.4634	119	119	100	Pass
0.4699	112	112	100	Pass

0.4763	105	105	100	Pass
0.4828	101	101	100	Pass
0.4892	96	96	100	Pass
0.4957	91	91	100	Pass
0.5021	87	87	100	Pass
0.5086	84	84	100	Pass
0.5150	78	78	100	Pass
0.5214	76	76	100	Pass
0.5279	71	71	100	Pass
0.5343	66	66	100	Pass
0.5408	63	63	100	Pass
0.5472	59	59	100	Pass
0.5537	57	57	100	Pass
0.5601	55	55	100	Pass
0.5666	51	51	100	Pass
0.5730	50	50	100	Pass
0.5795	48	48	100	Pass
0.5859	47	47	100	Pass
0.5924	44	44	100	Pass
0.5988	42	42	100	Pass
0.6053	39	39	100	Pass
0.6117	37	37	100	Pass
0.6181	34	34	100	Pass
0.6246	32	32	100	Pass
0.6310	32	32	100	Pass
0.6375	30	30	100	Pass
0.6439	29	29	100	Pass
0.6504	27	27	100	Pass
0.6568	25	25	100	Pass
0.6633	22	22	100	Pass
0.6697	21	21	100	Pass
0.6762	20	20	100	Pass
0.6826	17	17	100	Pass
0.6891	15	15	100	Pass
0.6955	14	14	100	Pass
0.7020	14	14	100	Pass
0.7084	13	13	100	Pass
0.7149	12	12	100	Pass
0.7213	11	11	100	Pass
0.7277	11	11	100	Pass
0.7342	11	11	100	Pass
0.7406	10	10	100	Pass
0.7471	10	10	100	Pass
0.7535	8	8	100	Pass
0.7600	7	7	100	Pass
0.7664	7	7	100	Pass
0.7729	7	7	100	Pass
0.7793	6	6	100	Pass
0.7858	6	6	100	Pass
0.7922	6	6	100	Pass
0.7987	6	6	100	Pass
0.8051	6	6	100	Pass
0.8116	5	5	100	Pass
0.8180	4	4	100	Pass
0.8245	3	3	100	Pass
0.8309	3	3	100	Pass
0.8373	3	3	100	Pass

0.8438	2	2	100	Pass
0.8502	2	2	100	Pass
0.8567	1	1	100	Pass
0.8631	0	0	100	Pass
0.8696	0	0	0	Pass
0.8760	0	0	0	Pass
0.8825	0	0	0	Pass
0.8889	0	0	0	Pass
0.8954	0	0	0	Pass
0.9018	0	0	0	Pass
0.9083	0	0	0	Pass
0.9147	0	0	0	Pass

Water Quality BMP Flow and Volume for POC #18
On-line facility volume: 0 acre-feet
On-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.
Off-line facility target flow: 0 cfs.
Adjusted for 15 min: 0 cfs.

Wetlands Fluctuation for POC 18
Average Annual Volume (acft)

Month	Predevel	Mitigated	Percent	Pass/Fail
Jan	40.6580	40.6580	100.0	Pass
Feb	31.3771	31.3771	100.0	Pass
Mar	27.6151	27.6151	100.0	Pass
Apr	14.8783	14.8783	100.0	Pass
May	7.1694	7.1694	100.0	Pass
Jun	4.5040	4.5040	100.0	Pass
Jul	2.0909	2.0909	100.0	Pass
Aug	3.0011	3.0011	100.0	Pass
Sep	7.5161	7.5161	100.0	Pass
Oct	20.1286	20.1286	100.0	Pass
Nov	37.3909	37.3909	100.0	Pass
Dec	39.2335	39.2335	100.0	Pass

Day	Predevel	Mitigated	Percent	Pass/Fail
Jan1	1.2922	1.2922	100.0	Pass
2	1.0715	1.0715	100.0	Pass
3	1.2744	1.2744	100.0	Pass
4	1.4408	1.4408	100.0	Pass
5	1.1669	1.1669	100.0	Pass
6	1.5622	1.5622	100.0	Pass
7	1.3432	1.3432	100.0	Pass
8	1.3169	1.3169	100.0	Pass
9	1.3527	1.3527	100.0	Pass
10	1.3639	1.3639	100.0	Pass
11	1.6092	1.6092	100.0	Pass
12	1.3586	1.3586	100.0	Pass
13	1.5982	1.5982	100.0	Pass
14	1.6288	1.6288	100.0	Pass
15	1.5202	1.5202	100.0	Pass
16	1.3250	1.3250	100.0	Pass

17	1.2450	1.2450	100.0	Pass
18	1.1028	1.1028	100.0	Pass
19	1.0575	1.0575	100.0	Pass
20	0.7693	0.7693	100.0	Pass
21	1.1482	1.1482	100.0	Pass
22	1.4842	1.4842	100.0	Pass
23	1.7078	1.7078	100.0	Pass
24	1.3025	1.3025	100.0	Pass
25	1.1095	1.1095	100.0	Pass
26	0.9992	0.9992	100.0	Pass
27	1.1369	1.1369	100.0	Pass
28	1.4136	1.4136	100.0	Pass
29	1.1808	1.1808	100.0	Pass
30	1.3078	1.3078	100.0	Pass
31	0.9077	0.9077	100.0	Pass
Feb1	0.9469	0.9469	100.0	Pass
2	0.8462	0.8462	100.0	Pass
3	0.7823	0.7823	100.0	Pass
4	0.7253	0.7253	100.0	Pass
5	1.1723	1.1723	100.0	Pass
6	0.7492	0.7492	100.0	Pass
7	0.9155	0.9155	100.0	Pass
8	0.7506	0.7506	100.0	Pass
9	0.8254	0.8254	100.0	Pass
10	1.0637	1.0637	100.0	Pass
11	1.4340	1.4340	100.0	Pass
12	1.2354	1.2354	100.0	Pass
13	1.2610	1.2610	100.0	Pass
14	1.6582	1.6582	100.0	Pass
15	1.3851	1.3851	100.0	Pass
16	1.6521	1.6521	100.0	Pass
17	1.5330	1.5330	100.0	Pass
18	1.3096	1.3096	100.0	Pass
19	1.1223	1.1223	100.0	Pass
20	1.0573	1.0573	100.0	Pass
21	0.8680	0.8680	100.0	Pass
22	1.1543	1.1543	100.0	Pass
23	1.1312	1.1312	100.0	Pass
24	1.2369	1.2369	100.0	Pass
25	1.1480	1.1480	100.0	Pass
26	1.1448	1.1448	100.0	Pass
27	1.0190	1.0190	100.0	Pass
28	1.3276	1.3276	100.0	Pass
29	0.9579	0.9579	100.0	Pass
Mar1	0.9268	0.9268	100.0	Pass
2	0.7894	0.7894	100.0	Pass
3	1.0093	1.0093	100.0	Pass
4	1.0772	1.0772	100.0	Pass
5	0.8897	0.8897	100.0	Pass
6	1.0930	1.0930	100.0	Pass
7	1.0455	1.0455	100.0	Pass
8	1.0470	1.0470	100.0	Pass
9	1.0505	1.0505	100.0	Pass
10	0.9487	0.9487	100.0	Pass
11	0.9981	0.9981	100.0	Pass
12	0.8935	0.8935	100.0	Pass
13	1.0447	1.0447	100.0	Pass

14	0.8795	0.8795	100.0	Pass
15	0.7287	0.7287	100.0	Pass
16	0.6757	0.6757	100.0	Pass
17	0.8785	0.8785	100.0	Pass
18	0.5980	0.5980	100.0	Pass
19	0.7824	0.7824	100.0	Pass
20	0.6665	0.6665	100.0	Pass
21	1.0186	1.0186	100.0	Pass
22	1.1658	1.1658	100.0	Pass
23	1.0608	1.0608	100.0	Pass
24	0.7631	0.7631	100.0	Pass
25	0.9832	0.9832	100.0	Pass
26	0.7945	0.7945	100.0	Pass
27	0.7196	0.7196	100.0	Pass
28	0.8058	0.8058	100.0	Pass
29	0.7359	0.7359	100.0	Pass
30	0.5892	0.5892	100.0	Pass
31	0.4742	0.4742	100.0	Pass
Apr1	0.4754	0.4754	100.0	Pass
2	0.5135	0.5135	100.0	Pass
3	0.6526	0.6526	100.0	Pass
4	0.6382	0.6382	100.0	Pass
5	0.7101	0.7101	100.0	Pass
6	0.4343	0.4343	100.0	Pass
7	0.5880	0.5880	100.0	Pass
8	0.6226	0.6226	100.0	Pass
9	0.5464	0.5464	100.0	Pass
10	0.5632	0.5632	100.0	Pass
11	0.6896	0.6896	100.0	Pass
12	0.6480	0.6480	100.0	Pass
13	0.6567	0.6567	100.0	Pass
14	0.5910	0.5910	100.0	Pass
15	0.6263	0.6263	100.0	Pass
16	0.3999	0.3999	100.0	Pass
17	0.4610	0.4610	100.0	Pass
18	0.5160	0.5160	100.0	Pass
19	0.3375	0.3375	100.0	Pass
20	0.2940	0.2940	100.0	Pass
21	0.4320	0.4320	100.0	Pass
22	0.3794	0.3794	100.0	Pass
23	0.3492	0.3492	100.0	Pass
24	0.2877	0.2877	100.0	Pass
25	0.3157	0.3157	100.0	Pass
26	0.5240	0.5240	100.0	Pass
27	0.4373	0.4373	100.0	Pass
28	0.4550	0.4550	100.0	Pass
29	0.2611	0.2611	100.0	Pass
30	0.2818	0.2818	100.0	Pass
May1	0.3998	0.3998	100.0	Pass
2	0.3299	0.3299	100.0	Pass
3	0.3312	0.3312	100.0	Pass
4	0.2811	0.2811	100.0	Pass
5	0.2611	0.2611	100.0	Pass
6	0.2191	0.2191	100.0	Pass
7	0.2731	0.2731	100.0	Pass
8	0.1884	0.1884	100.0	Pass
9	0.2315	0.2315	100.0	Pass

10	0.1906	0.1906	100.0	Pass
11	0.1762	0.1762	100.0	Pass
12	0.2452	0.2452	100.0	Pass
13	0.2633	0.2633	100.0	Pass
14	0.2575	0.2575	100.0	Pass
15	0.1993	0.1993	100.0	Pass
16	0.2241	0.2241	100.0	Pass
17	0.1955	0.1955	100.0	Pass
18	0.2793	0.2793	100.0	Pass
19	0.1738	0.1738	100.0	Pass
20	0.1546	0.1546	100.0	Pass
21	0.1581	0.1581	100.0	Pass
22	0.1812	0.1812	100.0	Pass
23	0.1700	0.1700	100.0	Pass
24	0.1792	0.1792	100.0	Pass
25	0.1553	0.1553	100.0	Pass
26	0.2455	0.2455	100.0	Pass
27	0.2070	0.2070	100.0	Pass
28	0.2165	0.2165	100.0	Pass
29	0.2941	0.2941	100.0	Pass
30	0.2073	0.2073	100.0	Pass
31	0.2231	0.2231	100.0	Pass
Jun1	0.1809	0.1809	100.0	Pass
2	0.2435	0.2435	100.0	Pass
3	0.2351	0.2351	100.0	Pass
4	0.1824	0.1824	100.0	Pass
5	0.2783	0.2783	100.0	Pass
6	0.1355	0.1355	100.0	Pass
7	0.1783	0.1783	100.0	Pass
8	0.2365	0.2365	100.0	Pass
9	0.1857	0.1857	100.0	Pass
10	0.1680	0.1680	100.0	Pass
11	0.1285	0.1285	100.0	Pass
12	0.1421	0.1421	100.0	Pass
13	0.2243	0.2243	100.0	Pass
14	0.1132	0.1132	100.0	Pass
15	0.1900	0.1900	100.0	Pass
16	0.1023	0.1023	100.0	Pass
17	0.1235	0.1235	100.0	Pass
18	0.0959	0.0959	100.0	Pass
19	0.0948	0.0948	100.0	Pass
20	0.0978	0.0978	100.0	Pass
21	0.1039	0.1039	100.0	Pass
22	0.0635	0.0635	100.0	Pass
23	0.2554	0.2554	100.0	Pass
24	0.1011	0.1011	100.0	Pass
25	0.1279	0.1279	100.0	Pass
26	0.0786	0.0786	100.0	Pass
27	0.0656	0.0656	100.0	Pass
28	0.0655	0.0655	100.0	Pass
29	0.0830	0.0830	100.0	Pass
30	0.1860	0.1860	100.0	Pass
Jul1	0.0611	0.0611	100.0	Pass
2	0.0457	0.0457	100.0	Pass
3	0.0442	0.0442	100.0	Pass
4	0.0950	0.0950	100.0	Pass
5	0.0745	0.0745	100.0	Pass

6	0.0575	0.0575	100.0	Pass
7	0.1157	0.1157	100.0	Pass
8	0.0772	0.0772	100.0	Pass
9	0.1368	0.1368	100.0	Pass
10	0.0979	0.0979	100.0	Pass
11	0.2023	0.2023	100.0	Pass
12	0.1358	0.1358	100.0	Pass
13	0.0929	0.0929	100.0	Pass
14	0.1159	0.1159	100.0	Pass
15	0.0533	0.0533	100.0	Pass
16	0.0329	0.0329	100.0	Pass
17	0.0929	0.0929	100.0	Pass
18	0.0423	0.0423	100.0	Pass
19	0.0427	0.0427	100.0	Pass
20	0.0649	0.0649	100.0	Pass
21	0.0578	0.0578	100.0	Pass
22	0.0120	0.0120	100.0	Pass
23	0.0169	0.0169	100.0	Pass
24	0.0169	0.0169	100.0	Pass
25	0.0342	0.0342	100.0	Pass
26	0.0144	0.0144	100.0	Pass
27	0.0212	0.0212	100.0	Pass
28	0.0182	0.0182	100.0	Pass
29	0.0124	0.0124	100.0	Pass
30	0.0198	0.0198	100.0	Pass
31	0.0230	0.0230	100.0	Pass
Aug1	0.0948	0.0948	100.0	Pass
2	0.0402	0.0402	100.0	Pass
3	0.0188	0.0188	100.0	Pass
4	0.0162	0.0162	100.0	Pass
5	0.1122	0.1122	100.0	Pass
6	0.0823	0.0823	100.0	Pass
7	0.0347	0.0347	100.0	Pass
8	0.0306	0.0306	100.0	Pass
9	0.0046	0.0046	100.0	Pass
10	0.0151	0.0151	100.0	Pass
11	0.0687	0.0687	100.0	Pass
12	0.0607	0.0607	100.0	Pass
13	0.0776	0.0776	100.0	Pass
14	0.0541	0.0541	100.0	Pass
15	0.0522	0.0522	100.0	Pass
16	0.0412	0.0412	100.0	Pass
17	0.0696	0.0696	100.0	Pass
18	0.1331	0.1331	100.0	Pass
19	0.0494	0.0494	100.0	Pass
20	0.1068	0.1068	100.0	Pass
21	0.1064	0.1064	100.0	Pass
22	0.2007	0.2007	100.0	Pass
23	0.2044	0.2044	100.0	Pass
24	0.2040	0.2040	100.0	Pass
25	0.0988	0.0988	100.0	Pass
26	0.2005	0.2005	100.0	Pass
27	0.2157	0.2157	100.0	Pass
28	0.2277	0.2277	100.0	Pass
29	0.1491	0.1491	100.0	Pass
30	0.2081	0.2081	100.0	Pass
31	0.3418	0.3418	100.0	Pass

Sep1	0.1786	0.1786	100.0	Pass
2	0.1609	0.1609	100.0	Pass
3	0.1607	0.1607	100.0	Pass
4	0.1867	0.1867	100.0	Pass
5	0.1651	0.1651	100.0	Pass
6	0.1195	0.1195	100.0	Pass
7	0.1981	0.1981	100.0	Pass
8	0.1433	0.1433	100.0	Pass
9	0.3183	0.3183	100.0	Pass
10	0.1017	0.1017	100.0	Pass
11	0.0762	0.0762	100.0	Pass
12	0.1692	0.1692	100.0	Pass
13	0.3238	0.3238	100.0	Pass
14	0.2341	0.2341	100.0	Pass
15	0.3307	0.3307	100.0	Pass
16	0.3847	0.3847	100.0	Pass
17	0.3987	0.3987	100.0	Pass
18	0.3642	0.3642	100.0	Pass
19	0.4053	0.4053	100.0	Pass
20	0.3278	0.3278	100.0	Pass
21	0.4301	0.4301	100.0	Pass
22	0.3541	0.3541	100.0	Pass
23	0.2766	0.2766	100.0	Pass
24	0.1994	0.1994	100.0	Pass
25	0.1913	0.1913	100.0	Pass
26	0.1928	0.1928	100.0	Pass
27	0.2683	0.2683	100.0	Pass
28	0.2275	0.2275	100.0	Pass
29	0.2878	0.2878	100.0	Pass
30	0.2322	0.2322	100.0	Pass
Oct1	0.1727	0.1727	100.0	Pass
2	0.3502	0.3502	100.0	Pass
3	0.3301	0.3301	100.0	Pass
4	0.4174	0.4174	100.0	Pass
5	0.4502	0.4502	100.0	Pass
6	0.4919	0.4919	100.0	Pass
7	0.6397	0.6397	100.0	Pass
8	0.5577	0.5577	100.0	Pass
9	0.4500	0.4500	100.0	Pass
10	0.3725	0.3725	100.0	Pass
11	0.6062	0.6062	100.0	Pass
12	0.4563	0.4563	100.0	Pass
13	0.5806	0.5806	100.0	Pass
14	0.3986	0.3986	100.0	Pass
15	0.4292	0.4292	100.0	Pass
16	0.5662	0.5662	100.0	Pass
17	0.5295	0.5295	100.0	Pass
18	0.8172	0.8172	100.0	Pass
19	1.0320	1.0320	100.0	Pass
20	0.9103	0.9103	100.0	Pass
21	1.0900	1.0900	100.0	Pass
22	0.7466	0.7466	100.0	Pass
23	1.0650	1.0650	100.0	Pass
24	0.9727	0.9727	100.0	Pass
25	0.8904	0.8904	100.0	Pass
26	1.0323	1.0323	100.0	Pass
27	0.9319	0.9319	100.0	Pass

28	0.8619	0.8619	100.0	Pass
29	0.7534	0.7534	100.0	Pass
30	0.9956	0.9956	100.0	Pass
31	0.9108	0.9108	100.0	Pass
Nov1	1.1105	1.1105	100.0	Pass
2	1.2746	1.2746	100.0	Pass
3	1.1192	1.1192	100.0	Pass
4	1.0805	1.0805	100.0	Pass
5	1.1879	1.1879	100.0	Pass
6	1.0512	1.0512	100.0	Pass
7	0.9483	0.9483	100.0	Pass
8	1.1239	1.1239	100.0	Pass
9	1.3374	1.3374	100.0	Pass
10	1.2037	1.2037	100.0	Pass
11	1.3158	1.3158	100.0	Pass
12	1.2217	1.2217	100.0	Pass
13	1.0133	1.0133	100.0	Pass
14	1.0808	1.0808	100.0	Pass
15	1.1979	1.1979	100.0	Pass
16	1.2464	1.2464	100.0	Pass
17	1.1798	1.1798	100.0	Pass
18	1.6363	1.6363	100.0	Pass
19	1.5498	1.5498	100.0	Pass
20	1.1323	1.1323	100.0	Pass
21	1.5617	1.5617	100.0	Pass
22	1.7855	1.7855	100.0	Pass
23	1.5193	1.5193	100.0	Pass
24	1.6629	1.6629	100.0	Pass
25	1.2313	1.2313	100.0	Pass
26	0.9991	0.9991	100.0	Pass
27	1.0798	1.0798	100.0	Pass
28	1.0369	1.0369	100.0	Pass
29	1.5940	1.5940	100.0	Pass
30	1.4053	1.4053	100.0	Pass
Dec1	1.5001	1.5001	100.0	Pass
2	1.5000	1.5000	100.0	Pass
3	1.0547	1.0547	100.0	Pass
4	1.0709	1.0709	100.0	Pass
5	0.9600	0.9600	100.0	Pass
6	0.8100	0.8100	100.0	Pass
7	1.0621	1.0621	100.0	Pass
8	1.3278	1.3278	100.0	Pass
9	1.3838	1.3838	100.0	Pass
10	1.5096	1.5096	100.0	Pass
11	1.1667	1.1667	100.0	Pass
12	1.2085	1.2085	100.0	Pass
13	1.6603	1.6603	100.0	Pass
14	1.3268	1.3268	100.0	Pass
15	1.5657	1.5657	100.0	Pass
16	1.1974	1.1974	100.0	Pass
17	1.3031	1.3031	100.0	Pass
18	1.1153	1.1153	100.0	Pass
19	1.2181	1.2181	100.0	Pass
20	1.2433	1.2433	100.0	Pass
21	1.3687	1.3687	100.0	Pass
22	1.3349	1.3349	100.0	Pass
23	1.4325	1.4325	100.0	Pass

24	1.5498	1.5498	100.0	Pass
25	1.4484	1.4484	100.0	Pass
26	1.3342	1.3342	100.0	Pass
27	0.9490	0.9490	100.0	Pass
28	1.2975	1.2975	100.0	Pass
29	0.9796	0.9796	100.0	Pass
30	0.9513	0.9513	100.0	Pass
31	1.4699	1.4699	100.0	Pass

Perlnd and Implnd Changes

No changes have been made.

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**WWHM2012
PROJECT REPORT**

General Model Information

Project Name: P Rd
Site Name:
Site Address:
City:
Report Date: 2/8/2021
Gage: Montesano
Data Start: 1955/10/01
Data End: 2009/09/30
Timestep: 15 Minute
Precip Scale: 1.00
Version Date: 2016/02/25
Version: 4.2.12

POC Thresholds

Low Flow Threshold for POC1:	50 Percent of the 2 Year
High Flow Threshold for POC1:	50 Year

Landuse Basin Data

Predeveloped Land Use

Basin 1

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 17.91
Pervious Total	17.91
Impervious Land Use ROADS FLAT	acre 131.3
Impervious Total	131.3
Basin Total	149.21

Element Flows To:		
Surface	Interflow	Groundwater

Mitigated Land Use

Basin 1

Bypass:	No
GroundWater:	No
Pervious Land Use C, Lawn, Flat	acre 17.91
Pervious Total	17.91
Impervious Land Use ROADS FLAT	acre 131.3
Impervious Total	131.3
Basin Total	149.21

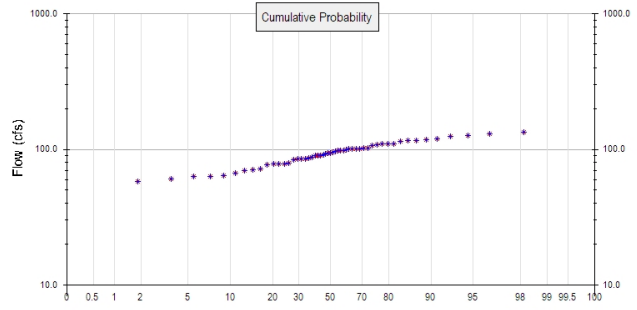
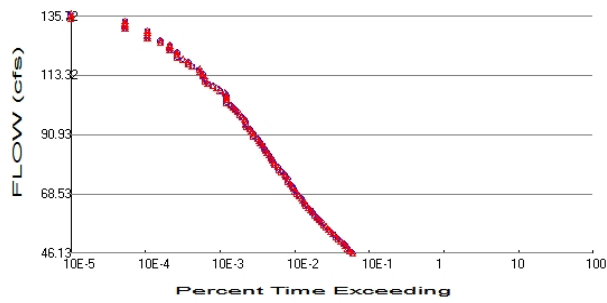
Element Flows To:		
Surface	Interflow	Groundwater

Routing Elements
Predeveloped Routing

Mitigated Routing

Analysis Results

POC 1



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #1

Total Pervious Area: 17.91
Total Impervious Area: 131.3

Mitigated Landuse Totals for POC #1

Total Pervious Area: 17.91
Total Impervious Area: 131.3

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #1

Return Period	Flow(cfs)
2 year	92.253536
5 year	109.599235
10 year	118.984522
25 year	129.1323
50 year	135.723994
100 year	141.653653

Flow Frequency Return Periods for Mitigated. POC #1

Return Period	Flow(cfs)
2 year	92.253536
5 year	109.599235
10 year	118.984522
25 year	129.1323
50 year	135.723994
100 year	141.653653

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #1

Year	Predeveloped	Mitigated
1956	97.307	97.307
1957	119.813	119.813
1958	92.040	92.040
1959	93.556	93.556
1960	97.070	97.070
1961	78.283	78.283
1962	127.380	127.380
1963	116.286	116.286
1964	101.117	101.117
1965	100.349	100.349

1966	98.598	98.598
1967	63.163	63.163
1968	94.579	94.579
1969	90.006	90.006
1970	85.213	85.213
1971	130.505	130.505
1972	110.204	110.204
1973	101.951	101.951
1974	98.673	98.673
1975	87.724	87.724
1976	107.076	107.076
1977	77.669	77.669
1978	133.960	133.960
1979	84.521	84.521
1980	78.058	78.058
1981	98.989	98.989
1982	114.402	114.402
1983	90.128	90.128
1984	84.577	84.577
1985	64.086	64.086
1986	101.201	101.201
1987	70.808	70.808
1988	107.798	107.798
1989	89.693	89.693
1990	117.204	117.204
1991	76.925	76.925
1992	60.046	60.046
1993	66.734	66.734
1994	86.501	86.501
1995	83.956	83.956
1996	102.378	102.378
1997	100.120	100.120
1998	62.915	62.915
1999	78.846	78.846
2000	71.729	71.729
2001	69.905	69.905
2002	109.285	109.285
2003	124.970	124.970
2004	116.264	116.264
2005	91.861	91.861
2006	93.491	93.491
2007	110.006	110.006
2008	57.678	57.678
2009	54.715	54.715

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	133.9600	133.9600
2	130.5050	130.5050
3	127.3800	127.3800
4	124.9700	124.9700
5	119.8130	119.8130
6	117.2040	117.2040
7	116.2860	116.2860
8	116.2640	116.2640
9	114.4020	114.4020
10	110.2040	110.2040

11	110.0060	110.0060
12	109.2850	109.2850
13	107.7980	107.7980
14	107.0760	107.0760
15	102.3780	102.3780
16	101.9510	101.9510
17	101.2010	101.2010
18	101.1170	101.1170
19	100.3490	100.3490
20	100.1200	100.1200
21	98.9887	98.9887
22	98.6730	98.6730
23	98.5982	98.5982
24	97.3074	97.3074
25	97.0700	97.0700
26	94.5791	94.5791
27	93.5555	93.5555
28	93.4905	93.4905
29	92.0399	92.0399
30	91.8613	91.8613
31	90.1275	90.1275
32	90.0058	90.0058
33	89.6934	89.6934
34	87.7241	87.7241
35	86.5006	86.5006
36	85.2133	85.2133
37	84.5768	84.5768
38	84.5205	84.5205
39	83.9557	83.9557
40	78.8462	78.8462
41	78.2825	78.2825
42	78.0576	78.0576
43	77.6690	77.6690
44	76.9253	76.9253
45	71.7293	71.7293
46	70.8079	70.8079
47	69.9047	69.9047
48	66.7343	66.7343
49	64.0857	64.0857
50	63.1628	63.1628
51	62.9151	62.9151
52	60.0461	60.0461
53	57.6780	57.6780
54	54.7154	54.7154

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
46.1268	1124	1124	100	Pass
47.0318	1046	1046	100	Pass
47.9368	973	973	100	Pass
48.8418	910	910	100	Pass
49.7469	851	851	100	Pass
50.6519	782	782	100	Pass
51.5569	723	723	100	Pass
52.4619	672	672	100	Pass
53.3669	623	623	100	Pass
54.2720	572	572	100	Pass
55.1770	536	536	100	Pass
56.0820	498	498	100	Pass
56.9870	467	467	100	Pass
57.8921	431	431	100	Pass
58.7971	399	399	100	Pass
59.7021	374	374	100	Pass
60.6071	349	349	100	Pass
61.5122	326	326	100	Pass
62.4172	311	311	100	Pass
63.3222	286	286	100	Pass
64.2272	268	268	100	Pass
65.1322	257	257	100	Pass
66.0373	241	241	100	Pass
66.9423	234	234	100	Pass
67.8473	215	215	100	Pass
68.7523	202	202	100	Pass
69.6574	191	191	100	Pass
70.5624	181	181	100	Pass
71.4674	174	174	100	Pass
72.3724	164	164	100	Pass
73.2774	154	154	100	Pass
74.1825	152	152	100	Pass
75.0875	142	142	100	Pass
75.9925	138	138	100	Pass
76.8975	126	126	100	Pass
77.8026	115	115	100	Pass
78.7076	111	111	100	Pass
79.6126	101	101	100	Pass
80.5176	98	98	100	Pass
81.4226	95	95	100	Pass
82.3277	91	91	100	Pass
83.2327	86	86	100	Pass
84.1377	81	81	100	Pass
85.0427	76	76	100	Pass
85.9478	74	74	100	Pass
86.8528	70	70	100	Pass
87.7578	66	66	100	Pass
88.6628	63	63	100	Pass
89.5678	60	60	100	Pass
90.4729	53	53	100	Pass
91.3779	53	53	100	Pass
92.2829	49	49	100	Pass
93.1879	47	47	100	Pass

94.0930	43	43	100	Pass
94.9980	42	42	100	Pass
95.9030	41	41	100	Pass
96.8080	40	40	100	Pass
97.7130	37	37	100	Pass
98.6181	35	35	100	Pass
99.5231	32	32	100	Pass
100.4281	30	30	100	Pass
101.3331	28	28	100	Pass
102.2382	26	26	100	Pass
103.1432	23	23	100	Pass
104.0482	23	23	100	Pass
104.9532	23	23	100	Pass
105.8583	23	23	100	Pass
106.7633	22	22	100	Pass
107.6683	19	19	100	Pass
108.5733	17	17	100	Pass
109.4783	15	15	100	Pass
110.3834	13	13	100	Pass
111.2884	12	12	100	Pass
112.1934	12	12	100	Pass
113.0984	11	11	100	Pass
114.0035	11	11	100	Pass
114.9085	10	10	100	Pass
115.8135	10	10	100	Pass
116.7185	8	8	100	Pass
117.6235	7	7	100	Pass
118.5286	7	7	100	Pass
119.4336	6	6	100	Pass
120.3386	5	5	100	Pass
121.2436	5	5	100	Pass
122.1487	5	5	100	Pass
123.0537	4	4	100	Pass
123.9587	4	4	100	Pass
124.8637	4	4	100	Pass
125.7687	3	3	100	Pass
126.6738	3	3	100	Pass
127.5788	2	2	100	Pass
128.4838	2	2	100	Pass
129.3888	2	2	100	Pass
130.2939	2	2	100	Pass
131.1989	1	1	100	Pass
132.1039	1	1	100	Pass
133.0089	1	1	100	Pass
133.9139	1	1	100	Pass
134.8190	0	0	100	Pass
135.7240	0	0	0	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #1

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Model Default Modifications

Total of 0 changes have been made.

PERLND Changes

No PERLND changes have been made.

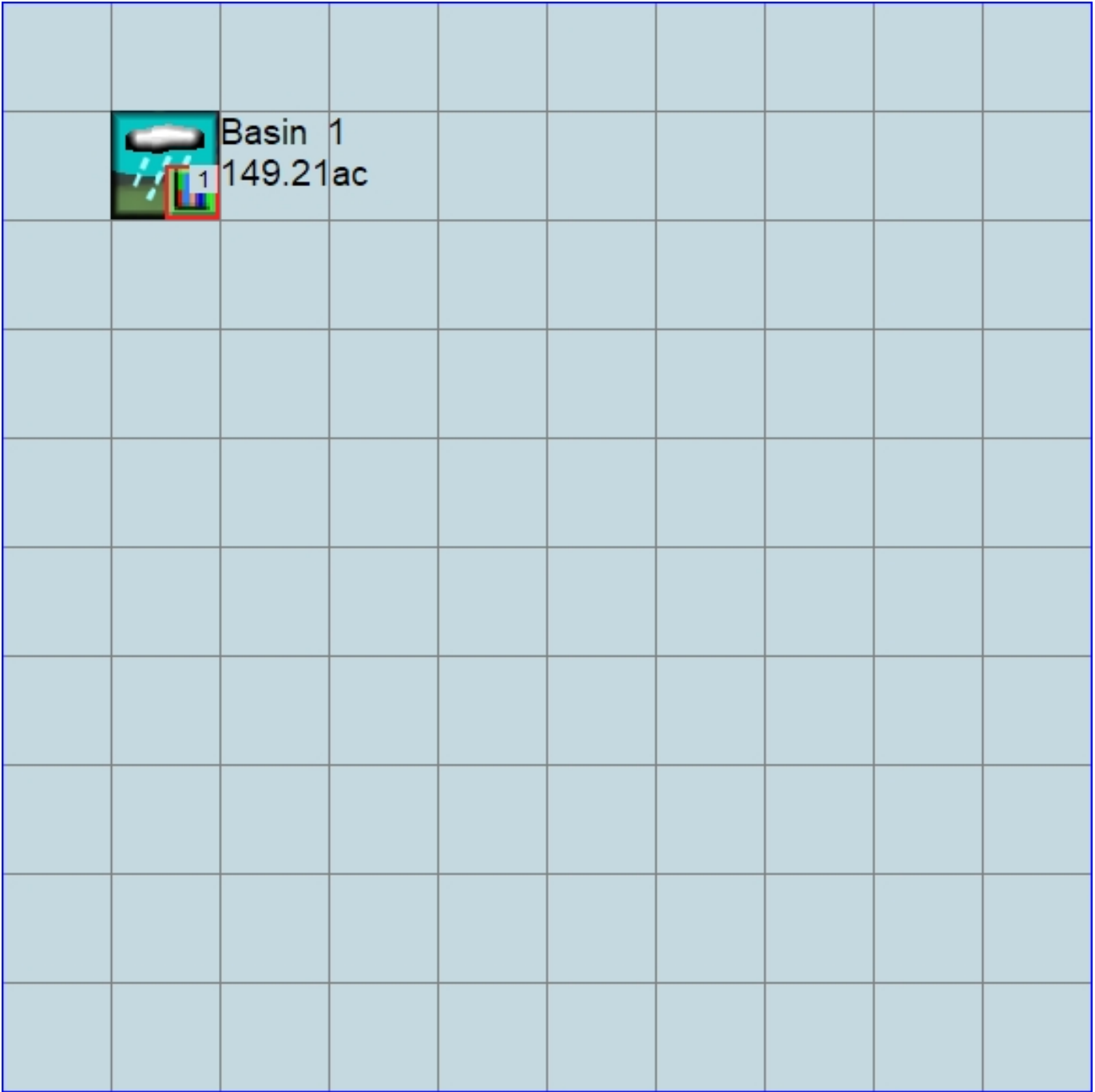
IMPLND Changes

No IMPLND changes have been made.

Appendix
Predeveloped Schematic



Mitigated Schematic



Predeveloped UCI File

RUN

GLOBAL

```
WVHM4 model simulation
START      1955 10 01      END      2009 09 30
RUN INTERP OUTPUT LEVEL   3      0
RESUME     0 RUN      1
UNIT SYSTEM      1
END GLOBAL
```

FILES

```
<File> <Un#> <-----File Name----->***
<-ID->                                     ***
WDM      26      P Rd.wdm
MESSU    25      PreP Rd.MES
          27      PreP Rd.L61
          28      PreP Rd.L62
          30      POCP Rd1.dat
```

END FILES

OPN SEQUENCE

```
INGRP          INDELT 00:15
  PERLND        16
  IMPLND         1
  COPY          501
  DISPLY         1
```

END INGRP

END OPN SEQUENCE

DISPLY

```
DISPLY-INFO1
# - #<-----Title----->***TRAN PIVL DIG1 FIL1  PYR DIG2 FIL2 YRND
1   Basin 1          MAX          1   2   30   9
END DISPLY-INFO1
```

END DISPLY

COPY

```
TIMESERIES
# - # NPT NMN ***
1   1   1
501 1   1
END TIMESERIES
```

END COPY

GENER

```
OPCODE
#   # OPCD ***
END OPCODE
PARM
#   #           K ***
END PARM
```

END GENER

PERLND

```
GEN-INFO
<PLS ><-----Name----->NBLKS  Unit-systems  Printer ***
# - #          User  t-series  Engl Metr ***
          in  out          ***
16      C, Lawn, Flat      1   1   1   1   27   0
END GEN-INFO
*** Section PWATER***
```

ACTIVITY

```
<PLS > ***** Active Sections *****
# - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC ***
16      0      0      1      0      0      0      0      0      0      0      0      0
END ACTIVITY
```

PRINT-INFO

```
<PLS > ***** Print-flags ***** PIVL  PYR
# - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC *****
16      0      0      4      0      0      0      0      0      0      0      0      0      1      9
END PRINT-INFO
```

```

PWAT-PARM1
<PLS > PWATER variable monthly parameter value flags ***
# - # CSNO RTOP UZFG VCS VUZ VNN VIFW VIRC VLE INFC HWT ***
16 0 0 0 0 0 0 0 0 0 0 0
END PWAT-PARM1

```

```

PWAT-PARM2
<PLS > PWATER input info: Part 2 ***
# - # ***FOREST LZSN INFILT LSUR SLSUR KVARY AGWRC
16 0 4.5 0.03 400 0.05 0.5 0.996
END PWAT-PARM2

```

```

PWAT-PARM3
<PLS > PWATER input info: Part 3 ***
# - # ***PETMAX PETMIN INFEXP INFILD DEEPFR BASETP AGWETP
16 0 0 2 2 0 0 0
END PWAT-PARM3

```

```

PWAT-PARM4
<PLS > PWATER input info: Part 4 ***
# - # CEPSC UZSN NSUR INTFW IRC LZETP ***
16 0.1 0.25 0.25 6 0.5 0.25
END PWAT-PARM4

```

```

PWAT-STATE1
<PLS > *** Initial conditions at start of simulation
ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
# - # *** CEPS SURS UZS IFWS LZS AGWS GWVS
16 0 0 0 0 2.5 1 0
END PWAT-STATE1

```

END PERLND

IMPLND

```

GEN-INFO
<PLS ><-----Name-----> Unit-systems Printer ***
# - # User t-series Engl Metr ***
in out ***
1 ROADS/FLAT 1 1 1 27 0
END GEN-INFO
*** Section IWATER***

```

```

ACTIVITY
<PLS > ***** Active Sections *****
# - # ATMP SNOW IWAT SLD IWG IQAL ***
1 0 0 1 0 0 0
END ACTIVITY

```

```

PRINT-INFO
<ILS > ***** Print-flags ***** PIVL PYR
# - # ATMP SNOW IWAT SLD IWG IQAL *****
1 0 0 4 0 0 0 1 9
END PRINT-INFO

```

```

IWAT-PARM1
<PLS > IWATER variable monthly parameter value flags ***
# - # CSNO RTOP VRS VNN RTLI ***
1 0 0 0 0 0
END IWAT-PARM1

```

```

IWAT-PARM2
<PLS > IWATER input info: Part 2 ***
# - # *** LSUR SLSUR NSUR RETSC
1 400 0.01 0.1 0.1
END IWAT-PARM2

```

```

IWAT-PARM3
<PLS > IWATER input info: Part 3 ***
# - # ***PETMAX PETMIN
1 0 0

```

```

END IWAT-PARM3

IWAT-STATE1
  <PLS > *** Initial conditions at start of simulation
  # - # *** RETS      SURS
  1   0               0
END IWAT-STATE1

END IMPLND

SCHEMATIC
<-Source->
<Name> #
Basin 1***
PERLND 16          17.91   COPY  501   12
PERLND 16          17.91   COPY  501   13
IMPLND  1          131.3   COPY  501   15

*****Routing*****
END SCHEMATIC

NETWORK
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor-->strg <Name> # # <Name> # # ***
COPY  501 OUTPUT MEAN  1 1  48.4      DISPLY  1      INPUT  TIMSER 1

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor-->strg <Name> # # <Name> # # ***
END NETWORK

RCHRES
GEN-INFO
  RCHRES      Name      Nexits  Unit Systems  Printer      ***
  # - #<-----><----> User T-series Engl Metr LKFG      ***
                                     in out
END GEN-INFO
*** Section RCHRES***

ACTIVITY
  <PLS > ***** Active Sections *****
  # - # HYFG ADFG CNFG HTFG SDFG GQFG OXFG NUFG PKFG PHFG ***
END ACTIVITY

PRINT-INFO
  <PLS > ***** Print-flags ***** PIVL  PYR
  # - # HYDR ADCA CONS HEAT SED  GQL  OXRX NUTR PLNK PHCB PIVL  PYR *****
END PRINT-INFO

HYDR-PARM1
  RCHRES  Flags for each HYDR Section      ***
  # - # VC A1 A2 A3  ODFVFG for each *** ODGTFG for each  FUNCT for each
        FG FG FG FG possible exit *** possible exit possible exit
        * * * * * * * * * * * * * * * * * * * * * * * *
END HYDR-PARM1

HYDR-PARM2
  # - # FTABNO      LEN      DELTH      STCOR      KS      DB50      ***
<-----><-----><-----><-----><-----><----->
END HYDR-PARM2

HYDR-INIT
  RCHRES  Initial conditions for each HYDR section      ***
  # - # *** VOL      Initial value of COLIND      Initial value of OUTDGT
        *** ac-ft      for each possible exit      for each possible exit
<-----><-----> <-----><-----><-----><-----> *** <-----><-----><-----><----->
END HYDR-INIT
END RCHRES

SPEC-ACTIONS

```

END SPEC-ACTIONS
FTABLES
END FTABLES

EXT SOURCES

<-Volume->	<Member>	SsysSgap<--Mult-->	Tran	<-Target	vols>	<-Grp>	<-Member->	***	
<Name>	#	<Name>	#	tem strg<-factor->	strg	<Name>	#	#	***
WDM	2	PREC	ENGL	1		PERLND	1 999	EXTNL	PREC
WDM	2	PREC	ENGL	1		IMPLND	1 999	EXTNL	PREC
WDM	1	EVAP	ENGL	0.76		PERLND	1 999	EXTNL	PETINP
WDM	1	EVAP	ENGL	0.76		IMPLND	1 999	EXTNL	PETINP

END EXT SOURCES

EXT TARGETS

<-Volume->	<-Grp>	<-Member->	<--Mult-->	Tran	<-Volume->	<Member>	Tsys	Tgap	Amd	***	
<Name>	#	<Name>	#	#<-factor->	strg	<Name>	#	<Name>	tem	strg	strg***
COPY	501	OUTPUT	MEAN	1 1	48.4	WDM	501	FLOW	ENGL		REPL

END EXT TARGETS

MASS-LINK

<Volume>	<-Grp>	<-Member->	<--Mult-->	<Target>	<-Grp>	<-Member->	***		
<Name>	#	<Name>	#	#<-factor->	<Name>	<Name>	#	#	***
MASS-LINK			12						
PERLND	PWATER	SURO		0.083333	COPY	INPUT	MEAN		
END MASS-LINK			12						
MASS-LINK			13						
PERLND	PWATER	IFWO		0.083333	COPY	INPUT	MEAN		
END MASS-LINK			13						
MASS-LINK			15						
IMPLND	IWATER	SURO		0.083333	COPY	INPUT	MEAN		
END MASS-LINK			15						

END MASS-LINK

END RUN

Mitigated UCI File

RUN

GLOBAL

```
WVHM4 model simulation
START      1955 10 01      END      2009 09 30
RUN INTERP OUTPUT LEVEL   3      0
RESUME     0 RUN      1
UNIT SYSTEM      1
END GLOBAL
```

FILES

```
<File> <Un#> <-----File Name----->***
<-ID->                                     ***
WDM      26    P Rd.wdm
MESSU    25    MitP Rd.MES
          27    MitP Rd.L61
          28    MitP Rd.L62
          30    POCP Rd1.dat
```

END FILES

OPN SEQUENCE

```
INGRP          INDELT 00:15
  PERLND        16
  IMPLND         1
  COPY          501
  DISPLY         1
```

END INGRP

END OPN SEQUENCE

DISPLY

```
DISPLY-INFO1
# - #<-----Title----->***TRAN PIVL DIG1 FIL1  PYR DIG2 FIL2 YRND
1   Basin 1          MAX          1   2   30   9
END DISPLY-INFO1
```

END DISPLY

COPY

```
TIMESERIES
# - # NPT NMN ***
1   1   1
501 1   1
END TIMESERIES
```

END COPY

GENER

```
OPCODE
#   # OPCD ***
END OPCODE
PARM
#   #           K ***
END PARM
```

END GENER

PERLND

```
GEN-INFO
<PLS ><-----Name----->NBLKS  Unit-systems  Printer ***
# - #          User  t-series  Engl Metr ***
          in  out          ***
16      C, Lawn, Flat      1   1   1   1   27   0
END GEN-INFO
*** Section PWATER***
```

ACTIVITY

```
<PLS > ***** Active Sections *****
# - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC ***
16   0   0   1   0   0   0   0   0   0   0   0   0
END ACTIVITY
```

PRINT-INFO

```
<PLS > ***** Print-flags ***** PIVL  PYR
# - # ATMP SNOW PWAT  SED  PST  PWG  PQAL MSTL PEST NITR PHOS TRAC *****
16   0   0   4   0   0   0   0   0   0   0   0   0   1   9
END PRINT-INFO
```



```

PWAT-PARM1
<PLS > PWATER variable monthly parameter value flags ***
# - # CSNO RTOP UZFG VCS VUZ VNN VIFW VIRC VLE INFC HWT ***
16 0 0 0 0 0 0 0 0 0 0 0
END PWAT-PARM1

```

```

PWAT-PARM2
<PLS > PWATER input info: Part 2 ***
# - # ***FOREST LZSN INFILT LSUR SLSUR KVARY AGWRC
16 0 4.5 0.03 400 0.05 0.5 0.996
END PWAT-PARM2

```

```

PWAT-PARM3
<PLS > PWATER input info: Part 3 ***
# - # ***PETMAX PETMIN INFEXP INFILD DEEPFR BASETP AGWETP
16 0 0 2 2 0 0 0
END PWAT-PARM3

```

```

PWAT-PARM4
<PLS > PWATER input info: Part 4 ***
# - # CEPSC UZSN NSUR INTFW IRC LZETP ***
16 0.1 0.25 0.25 6 0.5 0.25
END PWAT-PARM4

```

```

PWAT-STATE1
<PLS > *** Initial conditions at start of simulation
ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
# - # *** CEPS SURS UZS IFWS LZS AGWS GWVS
16 0 0 0 0 2.5 1 0
END PWAT-STATE1

```

END PERLND

IMPLND

```

GEN-INFO
<PLS ><-----Name-----> Unit-systems Printer ***
# - # User t-series Engl Metr ***
in out ***
1 ROADS/FLAT 1 1 1 27 0
END GEN-INFO
*** Section IWATER***

```

```

ACTIVITY
<PLS > ***** Active Sections *****
# - # ATMP SNOW IWAT SLD IWG IQAL ***
1 0 0 1 0 0 0
END ACTIVITY

```

```

PRINT-INFO
<ILS > ***** Print-flags ***** PIVL PYR
# - # ATMP SNOW IWAT SLD IWG IQAL *****
1 0 0 4 0 0 0 1 9
END PRINT-INFO

```

```

IWAT-PARM1
<PLS > IWATER variable monthly parameter value flags ***
# - # CSNO RTOP VRS VNN RTLI ***
1 0 0 0 0 0
END IWAT-PARM1

```

```

IWAT-PARM2
<PLS > IWATER input info: Part 2 ***
# - # *** LSUR SLSUR NSUR RETSC
1 400 0.01 0.1 0.1
END IWAT-PARM2

```

```

IWAT-PARM3
<PLS > IWATER input info: Part 3 ***
# - # ***PETMAX PETMIN
1 0 0

```

```

END IWAT-PARM3

IWAT-STATE1
  <PLS > *** Initial conditions at start of simulation
  # - # *** RETS     SURS
  1   0             0
END IWAT-STATE1

END IMPLND

SCHEMATIC
<-Source->
<Name> #
Basin 1***
PERLND 16             17.91   COPY  501   12
PERLND 16             17.91   COPY  501   13
IMPLND 1              131.3   COPY  501   15

*****Routing*****
END SCHEMATIC

NETWORK
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> #         <Name> # #<-factor-->strg <Name> # #         <Name> # # ***
COPY   501 OUTPUT MEAN  1 1  48.4         DISPLY 1   INPUT TIMSER 1

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> #         <Name> # #<-factor-->strg <Name> # #         <Name> # # ***
END NETWORK

RCHRES
  GEN-INFO
  RCHRES          Name          Nexits  Unit Systems  Printer          ***
  # - #<-----><----> User T-series Engl Metr LKFG          ***
                                     in out
END GEN-INFO
*** Section RCHRES***

ACTIVITY
  <PLS > ***** Active Sections *****
  # - # HYFG ADFG CNFG HTFG SDFG GQFG OXFG NUFG PKFG PHFG ***
END ACTIVITY

PRINT-INFO
  <PLS > ***** Print-flags ***** PIVL  PYR
  # - # HYDR ADCA CONS HEAT SED  GQL OXRX NUTR PLNK PHCB PIVL  PYR *****
END PRINT-INFO

HYDR-PARM1
  RCHRES  Flags for each HYDR Section          ***
  # - # VC A1 A2 A3  ODFVFG for each *** ODGTFG for each  FUNCT for each
        FG FG FG FG  possible exit *** possible exit  possible exit
        * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
END HYDR-PARM1

HYDR-PARM2
  # - # FTABNO          LEN          DELTH          STCOR          KS          DB50          ***
<-----><-----><-----><-----><-----><-----><----->
END HYDR-PARM2

HYDR-INIT
  RCHRES  Initial conditions for each HYDR section          ***
  # - # *** VOL          Initial value of COLIND          Initial value of OUTDGT
        *** ac-ft          for each possible exit          for each possible exit
<-----><----->          <-----><-----><-----><-----> *** <-----><-----><-----><-----><----->
END HYDR-INIT
END RCHRES

SPEC-ACTIONS

```

END SPEC-ACTIONS
FTABLES
END FTABLES

EXT SOURCES

```
<-Volume-> <Member> SsysSgap<--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***  
<Name> # <Name> # tem strg<-factor->strg <Name> # # <Name> # # ***  
WDM 2 PREC ENGL 1 PERLND 1 999 EXTNL PREC  
WDM 2 PREC ENGL 1 IMPLND 1 999 EXTNL PREC  
WDM 1 EVAP ENGL 0.76 PERLND 1 999 EXTNL PETINP  
WDM 1 EVAP ENGL 0.76 IMPLND 1 999 EXTNL PETINP
```

END EXT SOURCES

EXT TARGETS

```
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Volume-> <Member> Tsys Tgap Amd ***  
<Name> # <Name> # #<-factor->strg <Name> # <Name> tem strg strg***  
COPY 1 OUTPUT MEAN 1 1 48.4 WDM 701 FLOW ENGL REPL  
COPY 501 OUTPUT MEAN 1 1 48.4 WDM 801 FLOW ENGL REPL  
END EXT TARGETS
```

MASS-LINK

```
<Volume> <-Grp> <-Member-><--Mult--> <Target> <-Grp> <-Member->***  
<Name> # <Name> # #<-factor-> <Name> <Name> # #***  
MASS-LINK 12  
PERLND PWATER SURO 0.083333 COPY INPUT MEAN  
END MASS-LINK 12  
  
MASS-LINK 13  
PERLND PWATER IFWO 0.083333 COPY INPUT MEAN  
END MASS-LINK 13  
  
MASS-LINK 15  
IMPLND IWATER SURO 0.083333 COPY INPUT MEAN  
END MASS-LINK 15
```

END MASS-LINK

END RUN

Predeveloped HSPF Message File

Mitigated HSPF Message File

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Appendix C

EPA SWMM Modeling Reports

8th Street 2-year Flow SWMM Modeling Report

Project Description

File Name 8th street outfall basin_existing 2 year flow.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 05, 2006 07:15:00
End Analysis On Jan 06, 2006 07:15:00
Start Reporting On Jan 05, 2006 07:15:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	21
<i>Junctions</i>	20
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	20
<i>Channels</i>	0
<i>Pipes</i>	20
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	NODE-1	Junction	6.23	10.66	6.23	10.66	0.00	2.52	10.48	0.00	0.17	0 00:00	0.00	0.00
2	NODE-10	Junction	0.75	10.76	0.75	10.76	0.00	7.29	2.69	0.00	8.06	0 00:00	0.00	0.00
3	NODE-2	Junction	6.99	11.15	6.99	11.15	0.00	1.44	11.15	0.00	0.00	0 11:44	0.00	0.00
4	NODE-3	Junction	6.11	10.46	6.11	10.46	0.00	1.53	10.46	0.00	0.00	0 12:00	0.03	9.00
5	NODE-4	Junction	5.69	10.43	5.69	10.43	0.00	1.87	10.26	0.00	0.17	0 00:00	0.00	0.00
6	NODE-5	Junction	5.44	10.25	5.44	10.25	0.00	4.54	9.05	0.00	1.20	0 00:00	0.00	0.00
7	NODE-6	Junction	5.31	10.14	5.31	10.14	0.00	4.72	8.80	0.00	1.33	0 00:00	0.00	0.00
8	NODE-7	Junction	2.86	10.15	2.86	10.15	0.00	4.67	7.93	0.00	2.23	0 00:00	0.00	0.00
9	NODE-8	Junction	5.24	9.91	5.24	9.91	0.00	1.60	7.14	0.00	2.77	0 00:00	0.00	0.00
10	NODE-9	Junction	3.88	9.75	3.88	9.75	0.00	2.43	6.46	0.00	3.29	0 00:00	0.00	0.00
11	SD-17	Junction	0.75	10.67	0.75	10.67	0.00	7.16	3.07	0.00	7.60	0 00:00	0.00	0.00
12	SD-19	Junction	1.42	10.28	1.42	10.28	0.00	6.89	5.74	0.00	4.54	0 00:00	0.00	0.00
13	SD-21	Junction	4.16	10.16	4.16	10.16	0.00	4.51	9.99	0.00	0.17	0 00:00	0.00	0.00
14	SD-23	Junction	5.90	10.35	5.90	10.35	0.00	4.41	9.46	0.00	0.89	0 00:00	0.00	0.00
15	SD-24	Junction	5.48	11.06	5.48	11.06	0.00	4.41	10.01	0.00	1.05	0 00:00	0.00	0.00
16	SD-25	Junction	6.46	10.73	6.46	10.73	0.00	2.37	10.64	0.00	0.09	0 00:00	0.00	0.00
17	SD-26	Junction	6.86	10.71	6.86	10.71	0.00	2.26	10.71	0.00	0.00	0 12:00	0.35	23.00
18	SD-39	Junction	4.80	9.94	4.80	9.94	0.00	2.37	6.80	0.00	3.14	0 00:00	0.00	0.00
19	SD-42	Junction	5.70	10.45	5.70	10.45	0.00	1.54	7.47	0.00	2.98	0 00:00	0.00	0.00
20	SD-50	Junction	1.86	10.59	1.86	10.59	0.00	6.89	4.43	0.00	6.16	0 00:00	0.00	0.00
21	OUTFALL	Outfall	0.75					7.29	1.80					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged (min)	Reported Condition
1	Pipe - (28)	Pipe	SD-26	SD-25	147.10	6.86	6.46	0.2700	12.000	0.0130	1.76	1.86	0.95	2.36	1.00	1.00	37.00	SURCHARGED
2	Pipe - (29)	Pipe	SD-25	NODE-1	50.61	6.46	6.23	0.4500	12.000	0.0130	2.37	2.39	0.99	3.02	1.00	1.00	42.00	SURCHARGED
3	Pipe - (30)	Pipe	NODE-1	SD-24	167.14	6.23	5.48	0.4500	12.000	0.0130	2.52	2.39	1.06	3.21	1.00	1.00	45.00	SURCHARGED
4	Pipe - (31)	Pipe	NODE-4	SD-24	69.60	5.69	5.48	0.3000	12.000	0.0130	1.87	1.96	0.95	2.38	1.00	1.00	75.00	SURCHARGED
5	Pipe - (32)	Pipe	NODE-2	NODE-3	293.71	6.99	6.11	0.3000	12.000	0.0130	1.44	1.95	0.74	1.83	1.00	1.00	29.00	SURCHARGED
6	Pipe - (33)	Pipe	NODE-3	NODE-4	140.39	6.11	5.69	0.3000	12.000	0.0130	1.39	1.95	0.71	1.76	1.00	1.00	43.00	SURCHARGED
7	Pipe - (34)	Pipe	SD-24	SD-23	111.65	5.48	5.90	-0.3800	15.000	0.0130	4.41	3.96	1.11	3.61	1.25	1.00	28.00	SURCHARGED
8	Pipe - (35)	Pipe	SD-23	NODE-5	71.88	5.90	5.44	0.6400	15.000	0.0130	4.41	5.17	0.85	3.60	1.25	1.00	27.00	SURCHARGED
9	Pipe - (36)	Pipe	NODE-5	NODE-6	19.75	5.44	5.31	0.6400	15.000	0.0130	4.55	5.16	0.88	3.80	1.25	1.00	28.00	SURCHARGED
10	Pipe - (37)	Pipe	NODE-6	SD-21	178.52	5.31	4.16	0.6500	15.000	0.0130	4.51	5.19	0.87	4.44	1.25	1.00	28.00	SURCHARGED
11	Pipe - (38)	Pipe	SD-21	NODE-7	178.15	4.16	2.86	0.7300	15.000	0.0130	4.50	5.52	0.81	4.04	1.25	1.00	32.00	SURCHARGED
12	Pipe - (39)	Pipe	NODE-7	SD-19	199.27	2.86	1.42	0.7200	15.000	0.0130	4.66	5.48	0.85	3.79	1.25	1.00	39.00	SURCHARGED
13	Pipe - (40)	Pipe	SD-42	NODE-8	143.56	5.70	5.24	0.3200	12.000	0.0130	1.54	2.02	0.76	2.47	1.00	1.00	10.00	SURCHARGED
14	Pipe - (41)	Pipe	NODE-8	SD-39	138.53	5.24	4.80	0.3200	12.000	0.0130	1.60	2.01	0.80	2.88	1.00	1.00	14.00	SURCHARGED
15	Pipe - (42)	Pipe	SD-39	NODE-9	46.24	4.80	3.88	2.0000	12.000	0.0130	2.36	5.03	0.47	5.14	1.00	1.00	19.00	SURCHARGED
16	Pipe - (43)	Pipe	NODE-9	SD-19	122.83	3.88	1.42	2.0000	12.000	0.0130	2.43	5.04	0.48	3.10	1.00	1.00	26.00	SURCHARGED
17	Pipe - (44)	Pipe	SD-19	SD-50	248.72	1.42	1.86	-0.1800	18.000	0.0130	6.89	4.70	1.47	3.90	1.50	1.00	29.00	SURCHARGED
18	Pipe - (45)	Pipe	SD-50	SD-17	262.01	1.86	0.75	0.4200	18.000	0.0130	6.89	6.84	1.01	3.90	1.50	1.00	29.00	SURCHARGED
19	Pipe - (46)	Pipe	SD-17	NODE-10	25.14	0.75	0.75	0.0000	18.000	0.0130	7.16	4.70	1.52	4.05	1.50	1.00	34.00	SURCHARGED
20	Pipe - (48)	Pipe	NODE-10	OUTFALL	93.97	0.75	0.75	0.0000	18.000	0.0130	7.29	4.70	1.55	4.56	1.27	0.85	0.00	> CAPACITY

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	NODE-1	6.23	10.66	4.43	6.23	0.00	10.66	0.00	0.00	0.00
2	NODE-10	0.75	10.76	10.01	0.75	0.00	10.76	0.00	0.00	0.00
3	NODE-2	6.99	11.15	4.16	6.99	0.00	11.15	0.00	0.00	0.00
4	NODE-3	6.11	10.46	4.35	6.11	0.00	10.46	0.00	0.00	0.00
5	NODE-4	5.69	10.43	4.74	5.69	0.00	10.43	0.00	0.00	0.00
6	NODE-5	5.44	10.25	4.81	5.44	0.00	10.25	0.00	0.00	0.00
7	NODE-6	5.31	10.14	4.82	5.31	0.00	10.14	0.00	0.00	0.00
8	NODE-7	2.86	10.15	7.29	2.86	0.00	10.15	0.00	0.00	0.00
9	NODE-8	5.24	9.91	4.67	5.24	0.00	9.91	0.00	0.00	0.00
10	NODE-9	3.88	9.75	5.87	3.88	0.00	9.75	0.00	0.00	0.00
11	SD-17	0.75	10.67	9.92	0.75	0.00	10.67	0.00	0.00	0.00
12	SD-19	1.42	10.28	8.86	1.42	0.00	10.28	0.00	0.00	0.00
13	SD-21	4.16	10.16	6.00	4.16	0.00	10.16	0.00	0.00	0.00
14	SD-23	5.90	10.35	4.45	5.90	0.00	10.35	0.00	0.00	0.00
15	SD-24	5.48	11.06	5.58	5.48	0.00	11.06	0.00	0.00	0.00
16	SD-25	6.46	10.73	4.27	6.46	0.00	10.73	0.00	0.00	0.00
17	SD-26	6.86	10.71	3.85	6.86	0.00	10.71	0.00	0.00	0.00
18	SD-39	4.80	9.94	5.14	4.80	0.00	9.94	0.00	0.00	0.00
19	SD-42	5.70	10.45	4.75	5.70	0.00	10.45	0.00	0.00	0.00
20	SD-50	1.86	10.59	8.73	1.86	0.00	10.59	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 NODE-1	2.52	0.19	10.48	4.25	0.00	0.17	6.60	0.37	0 11:59	0 00:00	0.00	0.00
2 NODE-10	7.29	0.13	2.69	1.94	0.00	8.06	1.45	0.70	0 12:00	0 00:00	0.00	0.00
3 NODE-2	1.44	1.44	11.15	4.16	0.00	0.00	7.24	0.25	0 11:44	0 11:44	0.00	0.00
4 NODE-3	1.53	0.09	10.46	4.35	0.00	0.00	6.48	0.37	0 11:54	0 12:00	0.03	9.00
5 NODE-4	1.87	0.54	10.26	4.57	0.00	0.17	6.44	0.75	0 11:59	0 00:00	0.00	0.00
6 NODE-5	4.54	0.16	9.05	3.61	0.00	1.20	5.87	0.43	0 12:00	0 00:00	0.00	0.00
7 NODE-6	4.72	0.22	8.80	3.49	0.00	1.33	5.69	0.38	0 12:00	0 00:00	0.00	0.00
8 NODE-7	4.67	0.22	7.93	5.07	0.00	2.23	3.25	0.39	0 11:45	0 00:00	0.00	0.00
9 NODE-8	1.60	0.06	7.14	1.90	0.00	2.77	5.48	0.24	0 12:00	0 00:00	0.00	0.00
10 NODE-9	2.43	0.07	6.46	2.58	0.00	3.29	4.07	0.19	0 12:00	0 00:00	0.00	0.00
11 SD-17	7.16	0.27	3.07	2.32	0.00	7.60	1.50	0.75	0 12:00	0 00:00	0.00	0.00
12 SD-19	6.89	0.00	5.74	4.32	0.00	4.54	2.53	1.11	0 12:00	0 00:00	0.00	0.00
13 SD-21	4.51	0.00	9.99	5.83	0.00	0.17	4.53	0.37	0 11:45	0 00:00	0.00	0.00
14 SD-23	4.41	0.00	9.46	3.56	0.00	0.89	6.28	0.38	0 12:00	0 00:00	0.00	0.00
15 SD-24	4.41	0.40	10.01	4.53	0.00	1.05	6.43	0.95	0 12:00	0 00:00	0.00	0.00
16 SD-25	2.37	0.78	10.64	4.18	0.00	0.09	6.84	0.38	0 11:59	0 00:00	0.00	0.00
17 SD-26	2.26	2.26	10.71	3.85	0.00	0.00	7.20	0.34	0 11:46	0 12:00	0.35	23.00
18 SD-39	2.37	0.77	6.80	2.00	0.00	3.14	4.99	0.19	0 12:00	0 00:00	0.00	0.00
19 SD-42	1.54	1.54	7.47	1.77	0.00	2.98	5.92	0.22	0 12:00	0 00:00	0.00	0.00
20 SD-50	6.89	0.00	4.43	2.57	0.00	6.16	2.30	0.44	0 12:00	0 00:00	0.00	0.00

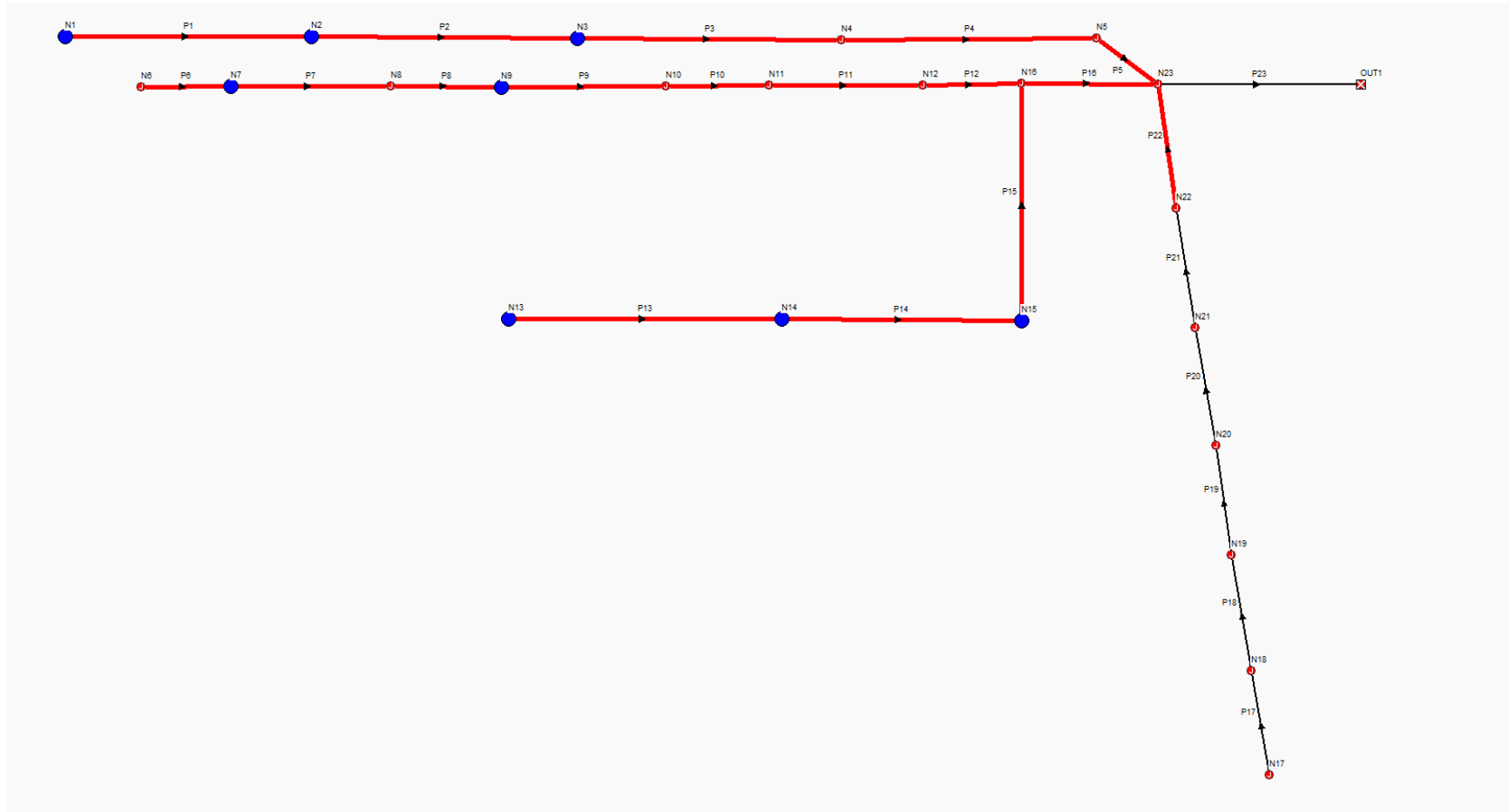
Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Pipe Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Pipe - (28)	147.10	6.86	0.00	6.46	0.00	0.40	0.2700	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
2	Pipe - (29)	50.61	6.46	0.00	6.23	0.00	0.23	0.4500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
3	Pipe - (30)	167.14	6.23	0.00	5.48	0.00	0.75	0.4500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
4	Pipe - (31)	69.60	5.69	0.00	5.48	0.00	0.21	0.3000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
5	Pipe - (32)	293.71	6.99	0.00	6.11	0.00	0.88	0.3000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
6	Pipe - (33)	140.39	6.11	0.00	5.69	0.00	0.42	0.3000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
7	Pipe - (34)	111.65	5.48	0.00	5.90	0.00	-0.42	-0.3800	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
8	Pipe - (35)	71.88	5.90	0.00	5.44	0.00	0.46	0.6400	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
9	Pipe - (36)	19.75	5.44	0.00	5.31	0.00	0.13	0.6400	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
10	Pipe - (37)	178.52	5.31	0.00	4.16	0.00	1.15	0.6500	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
11	Pipe - (38)	178.15	4.16	0.00	2.86	0.00	1.30	0.7300	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
12	Pipe - (39)	199.27	2.86	0.00	1.42	0.00	1.44	0.7200	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
13	Pipe - (40)	143.56	5.70	0.00	5.24	0.00	0.46	0.3200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
14	Pipe - (41)	138.53	5.24	0.00	4.80	0.00	0.44	0.3200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
15	Pipe - (42)	46.24	4.80	0.00	3.88	0.00	0.92	2.0000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
16	Pipe - (43)	122.83	3.88	0.00	1.42	0.00	2.46	2.0000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
17	Pipe - (44)	248.72	1.42	0.00	1.86	0.00	-0.44	-0.1800	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
18	Pipe - (45)	262.01	1.86	0.00	0.75	0.00	1.11	0.4200	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
19	Pipe - (46)	25.14	0.75	0.00	0.75	0.00	0.00	0.0000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
20	Pipe - (48)	93.97	0.75	0.00	0.75	0.00	0.00	0.0000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
1 Pipe - (28)	1.76	0 11:46	1.86	0.95	2.36	1.04	1.00	1.00	37.00	0.59	SURCHARGED
2 Pipe - (29)	2.37	0 11:46	2.39	0.99	3.02	0.28	1.00	1.00	42.00	0.73	SURCHARGED
3 Pipe - (30)	2.52	0 11:46	2.39	1.06	3.21	0.87	1.00	1.00	45.00	0.20	SURCHARGED
4 Pipe - (31)	1.87	0 11:54	1.96	0.95	2.38	0.49	1.00	1.00	75.00	0.06	SURCHARGED
5 Pipe - (32)	1.44	0 12:00	1.95	0.74	1.83	2.67	1.00	1.00	29.00	0.49	SURCHARGED
6 Pipe - (33)	1.39	0 11:54	1.95	0.71	1.76	1.33	1.00	1.00	43.00	0.13	SURCHARGED
7 Pipe - (34)	4.41	0 11:46	3.96	1.11	3.61	0.52	1.25	1.00	28.00	0.28	SURCHARGED
8 Pipe - (35)	4.41	0 11:45	5.17	0.85	3.60	0.33	1.25	1.00	27.00	0.82	SURCHARGED
9 Pipe - (36)	4.55	0 11:45	5.16	0.88	3.80	0.09	1.25	1.00	28.00	0.84	SURCHARGED
10 Pipe - (37)	4.51	0 11:46	5.19	0.87	4.44	0.67	1.25	1.00	28.00	1.02	SURCHARGED
11 Pipe - (38)	4.50	0 11:46	5.52	0.81	4.04	0.73	1.25	1.00	32.00	1.06	SURCHARGED
12 Pipe - (39)	4.66	0 11:46	5.48	0.85	3.79	0.88	1.25	1.00	39.00	0.26	SURCHARGED
13 Pipe - (40)	1.54	0 12:00	2.02	0.76	2.47	0.97	1.00	1.00	10.00	0.65	SURCHARGED
14 Pipe - (41)	1.60	0 12:00	2.01	0.80	2.88	0.80	1.00	1.00	14.00	0.79	SURCHARGED
15 Pipe - (42)	2.36	0 12:00	5.03	0.47	5.14	0.15	1.00	1.00	19.00	1.63	SURCHARGED
16 Pipe - (43)	2.43	0 12:00	5.04	0.48	3.10	0.66	1.00	1.00	26.00	0.19	SURCHARGED
17 Pipe - (44)	6.89	0 12:00	4.70	1.47	3.90	1.06	1.50	1.00	29.00	0.28	SURCHARGED
18 Pipe - (45)	6.89	0 12:00	6.84	1.01	3.90	1.12	1.50	1.00	29.00	0.45	SURCHARGED
19 Pipe - (46)	7.16	0 12:00	4.70	1.52	4.05	0.10	1.50	1.00	34.00	0.31	SURCHARGED
20 Pipe - (48)	7.29	0 12:00	4.70	1.55	4.56	0.34	1.27	0.85	0.00	0.54	> CAPACITY

Queen Avenue 2-year Flow SWMM Modeling Report



Project Description

File Name SWMM_Queen_2yr.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Dec 22, 1961 06:00:00
End Analysis On Dec 23, 1961 06:00:00
Start Reporting On Dec 22, 1961 06:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:15:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	24
<i>Junctions</i>	23
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	23
<i>Channels</i>	0
<i>Pipes</i>	23
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Ponded Area	Peak Inflow	Max HGL Elevation Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
			(ft)	(ft)	(ft)	(ft)	(ft ²)	(cfs)	(ft)	(ft)	(ft)	(days hh:mm)	(ac-in)	(min)
1	N1	Junction	8.07	11.20	8.07	11.20	0.00	2.20	11.20	0.00	0.00	0 12:00	0.96	69.00
2	N10	Junction	1.70	10.40	1.70	0.00	0.00	4.08	10.23	0.00	0.17	0 00:00	0.00	0.00
3	N11	Junction	1.55	10.40	1.55	0.00	0.00	3.23	10.19	0.00	0.21	0 00:00	0.00	0.00
4	N12	Junction	1.15	10.70	1.15	0.00	0.00	3.31	10.01	0.00	0.69	0 00:00	0.00	0.00
5	N13	Junction	3.85	10.30	3.85	0.00	0.00	2.53	10.30	0.00	0.00	0 12:00	4.17	391.00
6	N14	Junction	3.62	10.20	3.62	0.00	0.00	2.40	10.20	0.00	0.00	0 12:00	8.28	387.00
7	N15	Junction	2.61	10.30	2.61	0.00	0.00	8.10	10.30	0.00	0.00	0 12:00	3.87	169.00
8	N16	Junction	0.62	10.60	0.62	0.00	0.00	6.90	9.88	0.00	0.72	0 00:00	0.00	0.00
9	N17	Junction	3.66	10.50	3.66	0.00	0.00	0.67	4.04	0.00	6.46	0 00:00	0.00	0.00
10	N18	Junction	2.92	10.90	2.92	0.00	0.00	1.03	3.33	0.00	7.57	0 00:00	0.00	0.00
11	N19	Junction	1.65	10.70	1.65	0.00	0.00	4.69	2.47	0.00	8.23	0 00:00	0.00	0.00
12	N2	Junction	8.02	11.00	8.02	11.00	0.00	4.78	11.00	0.00	0.00	0 11:43	0.17	23.00
13	N20	Junction	-0.50	11.00	-0.50	0.00	0.00	4.68	0.53	0.00	10.47	0 00:00	0.00	0.00
14	N21	Junction	-1.16	11.10	-1.16	0.00	0.00	4.75	-0.42	0.00	11.52	0 00:00	0.00	0.00
15	N22	Junction	-3.08	11.20	-3.08	0.00	0.00	6.79	-0.74	0.00	11.94	0 00:00	0.00	0.00
16	N23	Junction	-4.74	10.70	-4.74	0.00	0.00	26.56	-1.10	0.00	11.80	0 00:00	0.00	0.00
17	N3	Junction	-0.13	10.30	-0.13	10.30	0.00	9.75	10.30	0.00	0.00	0 12:00	2.46	66.00
18	N4	Junction	-1.44	11.20	-1.44	11.20	0.00	10.62	9.97	0.00	1.23	0 00:00	0.00	0.00
19	N5	Junction	-4.32	10.32	-4.32	0.00	0.00	12.54	9.16	0.00	1.16	0 00:00	0.00	0.00
20	N6	Junction	4.18	11.00	4.18	0.00	0.00	1.59	11.00	0.00	0.00	0 09:21	0.00	0.00
21	N7	Junction	3.92	10.50	3.92	0.00	0.00	4.16	10.50	0.00	0.00	0 12:00	3.58	292.00
22	N8	Junction	2.68	10.40	2.68	0.00	0.00	2.85	10.37	0.00	0.03	0 00:00	0.00	0.00
23	N9	Junction	2.26	10.20	10.20	0.00	0.00	7.14	10.20	0.00	0.00	0 12:00	14.71	389.00
24	OUT1	Outfall	-4.74					26.56	-2.95					

Link Summary

SN Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Reported	Surcharged Condition
				(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	P1	Pipe	N1 N2	455.00	8.07	8.02	0.0100	12.000	0.0130	1.46	0.37	3.92	1.93	1.00	1.00	80.00	SURCHARGED
2	P10	Pipe	N10 N11	132.00	1.70	1.55	0.1100	18.000	0.0130	3.02	3.54	0.85	3.78	1.50	1.00	472.00	SURCHARGED
3	P11	Pipe	N11 N12	290.00	1.55	1.15	0.1400	18.000	0.0130	3.23	3.90	0.83	2.74	1.50	1.00	488.00	SURCHARGED
4	P12	Pipe	N12 N16	133.00	1.15	0.62	0.4000	18.000	0.0130	3.31	6.63	0.50	3.94	1.50	1.00	511.00	SURCHARGED
5	P13	Pipe	N13 N14	415.00	3.85	3.62	0.0600	12.000	0.0130	0.68	0.84	0.81	1.30	1.00	1.00	426.00	SURCHARGED
6	P14	Pipe	N14 N15	403.00	3.62	2.61	0.2500	12.000	0.0130	1.08	1.78	0.61	1.66	1.00	1.00	431.00	SURCHARGED
7	P15	Pipe	N15 N16	657.00	2.61	0.62	0.3000	18.000	0.0130	3.20	5.78	0.55	1.81	1.50	1.00	445.00	SURCHARGED
8	P16	Pipe	N16 N23	400.00	0.00	0.00	0.0000	12.000	0.0100	6.90	1.82	3.78	8.79	1.00	1.00	394.00	SURCHARGED
9	P17	Pipe	N17 N18	392.00	3.66	2.92	0.1900	18.000	0.0130	0.66	4.56	0.14	1.76	0.39	0.26	0.00	Calculated
10	P18	Pipe	N18 N19	360.00	2.92	1.65	0.3500	18.000	0.0130	1.01	6.24	0.16	1.51	0.61	0.41	0.00	Calculated
11	P19	Pipe	N19 N20	363.00	1.65	-0.50	0.5900	18.000	0.0130	4.64	8.08	0.57	4.09	0.91	0.61	0.00	Calculated
12	P2	Pipe	N2 N3	461.00	8.02	-0.13	1.7700	18.000	0.0130	3.93	13.97	0.28	3.06	1.50	1.00	73.00	SURCHARGED
13	P20	Pipe	N20 N21	317.00	-0.50	-1.16	0.2100	24.000	0.0130	4.64	10.32	0.45	3.48	0.87	0.44	0.00	Calculated
14	P21	Pipe	N21 N22	374.00	-1.16	-3.08	0.5100	24.000	0.0130	4.72	16.21	0.29	2.72	1.36	0.68	0.00	Calculated
15	P22	Pipe	N22 N23	323.00	-3.08	-4.74	0.5100	24.000	0.0130	6.79	16.22	0.42	2.16	2.00	1.00	20.00	SURCHARGED
16	P23	Pipe	N23 OUT1	49.00	-4.74	-4.74	0.0000	24.000	0.0130	26.56	1.02	25.98	8.62	1.90	0.95	0.00	> CAPACITY
17	P3	Pipe	N3 N4	450.00	-0.13	-1.44	0.2900	21.000	0.0130	7.27	8.55	0.85	3.34	1.75	1.00	299.00	SURCHARGED
18	P4	Pipe	N4 N5	354.00	-1.44	-4.32	0.8100	24.000	0.0130	10.63	20.40	0.52	3.38	2.00	1.00	327.00	SURCHARGED
19	P5	Pipe	N5 N23	51.00	-4.32	-4.74	0.8200	12.000	0.0130	12.54	3.23	3.88	15.96	1.00	1.00	603.00	SURCHARGED
20	P6	Pipe	N6 N7	287.00	4.18	3.92	0.0900	12.000	0.0130	1.57	1.07	1.46	2.00	1.00	1.00	418.00	SURCHARGED
21	P7	Pipe	N7 N8	308.00	3.92	2.68	0.4000	15.000	0.0130	1.57	4.10	0.38	2.09	1.25	1.00	418.00	SURCHARGED
22	P8	Pipe	N8 N9	175.00	2.68	2.26	0.2400	18.000	0.0130	2.85	5.15	0.55	2.16	1.50	1.00	446.00	SURCHARGED
23	P9	Pipe	N9 N10	286.00	2.26	1.70	0.2000	18.000	0.0130	4.08	4.65	0.88	4.38	1.50	1.00	456.00	SURCHARGED

Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1 N1	8.07	11.20	3.13	8.07	0.00	11.20	0.00	0.00	0.00
2 N10	1.70	10.40	8.70	1.70	0.00	0.00	-10.40	0.00	0.00
3 N11	1.55	10.40	8.85	1.55	0.00	0.00	-10.40	0.00	0.00
4 N12	1.15	10.70	9.55	1.15	0.00	0.00	-10.70	0.00	0.00
5 N13	3.85	10.30	6.45	3.85	0.00	0.00	-10.30	0.00	0.00
6 N14	3.62	10.20	6.58	3.62	0.00	0.00	-10.20	0.00	0.00
7 N15	2.61	10.30	7.69	2.61	0.00	0.00	-10.30	0.00	0.00
8 N16	0.62	10.60	9.98	0.62	0.00	0.00	-10.60	0.00	0.00
9 N17	3.66	10.50	6.84	3.66	0.00	0.00	-10.50	0.00	0.00
10 N18	2.92	10.90	7.98	2.92	0.00	0.00	-10.90	0.00	0.00
11 N19	1.65	10.70	9.05	1.65	0.00	0.00	-10.70	0.00	0.00
12 N2	8.02	11.00	2.98	8.02	0.00	11.00	0.00	0.00	0.00
13 N20	-0.50	11.00	11.50	-0.50	0.00	0.00	-11.00	0.00	0.00
14 N21	-1.16	11.10	12.26	-1.16	0.00	0.00	-11.10	0.00	0.00
15 N22	-3.08	11.20	14.28	-3.08	0.00	0.00	-11.20	0.00	0.00
16 N23	-4.74	10.70	15.44	-4.74	0.00	0.00	-10.70	0.00	0.00
17 N3	-0.13	10.30	10.43	-0.13	0.00	10.30	0.00	0.00	0.00
18 N4	-1.44	11.20	12.64	-1.44	0.00	11.20	0.00	0.00	0.00
19 N5	-4.32	10.32	14.64	-4.32	0.00	0.00	-10.32	0.00	0.00
20 N6	4.18	11.00	6.82	4.18	0.00	0.00	-11.00	0.00	0.00
21 N7	3.92	10.50	6.58	3.92	0.00	0.00	-10.50	0.00	0.00
22 N8	2.68	10.40	7.72	2.68	0.00	0.00	-10.40	0.00	0.00
23 N9	2.26	10.20	7.94	10.20	7.94	0.00	-10.20	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 N1	2.20	2.20	11.20	3.13	0.00	0.00	8.87	0.80	0 11:43	0 12:00	0.96	69.00
2 N10	4.08	2.49	10.23	8.53	0.00	0.17	5.69	3.99	0 11:59	0 00:00	0.00	0.00
3 N11	3.23	0.78	10.19	8.64	0.00	0.21	5.58	4.03	0 11:59	0 00:00	0.00	0.00
4 N12	3.31	0.32	10.01	8.86	0.00	0.69	5.24	4.09	0 11:59	0 00:00	0.00	0.00
5 N13	2.53	2.53	10.30	6.45	0.00	0.00	6.79	2.94	0 09:20	0 12:00	4.17	391.00
6 N14	2.40	1.33	10.20	6.58	0.00	0.00	6.60	2.98	0 09:22	0 12:00	8.28	387.00
7 N15	8.10	8.10	10.30	7.69	0.00	0.00	6.12	3.51	0 11:30	0 12:00	3.87	169.00
8 N16	6.90	1.61	9.88	9.26	0.00	0.72	5.06	4.44	0 11:59	0 00:00	0.00	0.00
9 N17	0.67	0.67	4.04	0.38	0.00	6.46	3.83	0.17	0 12:00	0 00:00	0.00	0.00
10 N18	1.03	0.38	3.33	0.41	0.00	7.57	3.10	0.18	0 12:02	0 00:00	0.00	0.00
11 N19	4.69	3.70	2.47	0.82	0.00	8.23	1.98	0.33	0 12:00	0 00:00	0.00	0.00
12 N2	4.78	4.06	11.00	2.98	0.00	0.00	8.53	0.51	0 11:43	0 11:43	0.17	23.00
13 N20	4.68	0.04	0.53	1.03	0.00	10.47	-0.07	0.43	0 12:01	0 00:00	0.00	0.00
14 N21	4.75	0.11	-0.42	0.74	0.00	11.52	-0.85	0.31	0 12:03	0 00:00	0.00	0.00
15 N22	6.79	2.18	-0.74	2.34	0.00	11.94	-2.47	0.61	0 12:01	0 00:00	0.00	0.00
16 N23	26.56	0.43	-1.10	3.64	0.00	11.80	-3.07	1.67	0 12:01	0 00:00	0.00	0.00
17 N3	9.75	5.88	10.30	10.43	0.00	0.00	2.19	2.32	0 11:43	0 12:00	2.46	66.00
18 N4	10.62	5.70	9.97	11.41	0.00	1.23	1.13	2.57	0 11:59	0 00:00	0.00	0.00
19 N5	12.54	2.75	9.16	13.48	0.00	1.16	-0.52	3.80	0 11:59	0 00:00	0.00	0.00
20 N6	1.59	0.09	11.00	6.82	0.00	0.00	6.92	2.74	0 09:21	0 09:21	0.00	0.00
21 N7	4.16	4.07	10.50	6.58	0.00	0.00	6.85	2.93	0 09:22	0 12:00	3.58	292.00
22 N8	2.85	1.59	10.37	7.69	0.00	0.03	6.15	3.47	0 11:59	0 00:00	0.00	0.00
23 N9	7.14	3.43	10.20	7.94	0.00	0.00	5.94	3.68	0 09:22	0 12:00	14.71	389.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Pipe Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flap Flow Gate	No. of Barrels	
1	P1	455.00	8.07	0.00	8.02	0.00	0.05	0.0100	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
2	P10	132.00	1.70	0.00	1.55	0.00	0.15	0.1100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
3	P11	290.00	1.55	0.00	1.15	0.00	0.40	0.1400	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
4	P12	133.00	1.15	0.00	0.62	0.00	0.53	0.4000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
5	P13	415.00	3.85	0.00	3.62	0.00	0.23	0.0600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
6	P14	403.00	3.62	0.00	2.61	0.00	1.01	0.2500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
7	P15	657.00	2.61	0.00	0.62	0.00	1.99	0.3000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
8	P16	400.00	0.00	-0.62	0.00	4.74	0.00	0.0000	CIRCULAR	12.000	12.000	0.0100	0.0000	0.0000	0.0000	0.00	No	1
9	P17	392.00	3.66	0.00	2.92	0.00	0.74	0.1900	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
10	P18	360.00	2.92	0.00	1.65	0.00	1.27	0.3500	CIRCULAR	18.000	18.000	0.0130	0.0000	0.0000	0.0000	0.00	No	1
11	P19	363.00	1.65	0.00	-0.50	0.00	2.15	0.5900	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
12	P2	461.00	8.02	0.00	-0.13	0.00	8.15	1.7700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
13	P20	317.00	-0.50	0.00	-1.16	0.00	0.66	0.2100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
14	P21	374.00	-1.16	0.00	-3.08	0.00	1.92	0.5100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
15	P22	323.00	-3.08	0.00	-4.74	0.00	1.66	0.5100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
16	P23	49.00	-4.74	0.00	-4.74	0.00	0.00	0.0000	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
17	P3	450.00	-0.13	0.00	-1.44	0.00	1.31	0.2900	CIRCULAR	21.000	21.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
18	P4	354.00	-1.44	0.00	-4.32	0.00	2.88	0.8100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
19	P5	51.00	-4.32	0.00	-4.74	0.00	0.42	0.8200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
20	P6	287.00	4.18	0.00	3.92	0.00	0.26	0.0900	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
21	P7	308.00	3.92	0.00	2.68	0.00	1.24	0.4000	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
22	P8	175.00	2.68	0.00	2.26	0.00	0.42	0.2400	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
23	P9	286.00	2.26	0.00	1.70	0.00	0.56	0.2000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	P1	1.46	0 11:43	0.37	3.92	1.93	3.93	1.00	1.00	80.00	0.27	SURCHARGED
2	P10	3.02	0 09:45	3.54	0.85	3.78	0.58	1.50	1.00	472.00	0.19	SURCHARGED
3	P11	3.23	0 09:45	3.90	0.83	2.74	1.76	1.50	1.00	488.00	0.25	SURCHARGED
4	P12	3.31	0 09:45	6.63	0.50	3.94	0.56	1.50	1.00	511.00	0.17	SURCHARGED
5	P13	0.68	0 09:21	0.84	0.81	1.30	5.32	1.00	1.00	426.00	0.17	SURCHARGED
6	P14	1.08	0 09:21	1.78	0.61	1.66	4.05	1.00	1.00	431.00	0.22	SURCHARGED
7	P15	3.20	0 13:15	5.78	0.55	1.81	6.05	1.50	1.00	445.00	0.16	SURCHARGED
8	P16	6.90	0 12:00	1.82	3.78	8.79	0.76	1.00	1.00	394.00	0.42	SURCHARGED
9	P17	0.66	0 12:00	4.56	0.14	1.76	3.71	0.39	0.26	0.00	0.51	Calculated
10	P18	1.01	0 12:02	6.24	0.16	1.51	3.97	0.61	0.41	0.00	0.38	Calculated
11	P19	4.64	0 12:00	8.08	0.57	4.09	1.48	0.91	0.61	0.00	0.78	Calculated
12	P2	3.93	0 13:01	13.97	0.28	3.06	2.51	1.50	1.00	73.00	0.56	SURCHARGED
13	P20	4.64	0 12:02	10.32	0.45	3.48	1.52	0.87	0.44	0.00	0.70	Calculated
14	P21	4.72	0 12:03	16.21	0.29	2.72	2.29	1.36	0.68	0.00	0.64	Calculated
15	P22	6.79	0 12:02	16.22	0.42	2.16	2.49	2.00	1.00	20.00	0.15	SURCHARGED
16	P23	26.56	0 12:01	1.02	25.98	8.62	0.09	1.90	0.95	0.00	0.68	> CAPACITY
17	P3	7.27	0 12:52	8.55	0.85	3.34	2.25	1.75	1.00	299.00	0.48	SURCHARGED
18	P4	10.63	0 12:49	20.40	0.52	3.38	1.75	2.00	1.00	327.00	0.38	SURCHARGED
19	P5	12.54	0 11:59	3.23	3.88	15.96	0.05	1.00	1.00	603.00	0.17	SURCHARGED
20	P6	1.57	0 09:21	1.07	1.46	2.00	2.39	1.00	1.00	418.00	0.03	SURCHARGED
21	P7	1.57	0 15:00	4.10	0.38	2.09	2.46	1.25	1.00	418.00	0.32	SURCHARGED
22	P8	2.85	0 12:00	5.15	0.55	2.16	1.35	1.50	1.00	446.00	0.24	SURCHARGED
23	P9	4.08	0 00:00	4.65	0.88	4.38	1.09	1.50	1.00	456.00	0.22	SURCHARGED

Emerson Avenue 2-year Flow SWMM Modeling Report

Project Description

File Name EMERSON BASIN - EXIST 2 YEAR FLOW.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Dec 15, 1982 07:00:00
End Analysis On Dec 16, 1982 07:00:00
Start Reporting On Dec 15, 1982 07:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	71
<i>Junctions</i>	70
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	70
<i>Channels</i>	0
<i>Pipes</i>	70
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation (ft) Attained	Max Surcharge Depth (ft) Attained	Min Freeboard (ft) Attained	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	CBSD-32	Junction	14.96	16.30	14.96	16.30	0.00	5.47	16.30	0.00	0.00	0 12:45	0.15	15.00
2	OS-11A	Junction	0.77	2.93	0.77	2.93	0.00	8.27	2.72	0.00	0.21	0 00:00	0.00	0.00
3	OS-12	Junction	0.92	3.08	0.92	3.08	0.00	6.88	3.03	0.00	0.06	0 00:00	0.00	0.00
4	OS-127	Junction	2.27	3.88	2.27	3.88	0.00	4.87	3.88	0.00	0.00	0 12:45	5.26	197.00
5	OS-13	Junction	1.12	3.28	1.12	3.28	0.00	6.44	3.28	0.00	0.00	0 12:46	0.05	11.00
6	OS-14	Junction	2.02	3.63	2.02	3.63	0.00	6.02	3.63	0.00	0.00	0 12:45	3.13	171.00
7	OS-15	Junction	2.14	3.75	2.14	3.75	0.00	5.74	3.75	0.00	0.00	0 12:45	3.80	225.00
8	OS-153	Junction	3.18	4.52	3.18	4.52	0.00	4.93	4.52	0.00	0.00	0 12:45	2.41	164.00
9	OS-16	Junction	2.26	10.48	2.26	10.48	0.00	2.93	3.89	0.00	6.58	0 00:00	0.00	0.00
10	OS-165	Junction	4.24	5.32	4.24	5.32	0.00	4.78	5.32	0.00	0.00	0 12:45	2.90	157.00
11	OS-17	Junction	2.90	4.24	2.90	4.24	0.00	2.24	4.09	0.00	0.15	0 00:00	0.00	0.00
12	OS-18	Junction	2.75	4.09	2.75	4.09	0.00	3.83	4.09	0.00	0.00	0 12:45	8.56	486.00
13	OS-19	Junction	3.26	4.60	3.26	4.60	0.00	2.30	4.46	0.00	0.14	0 00:00	0.00	0.00
14	OS-2	Junction	0.00	2.16	0.00	2.16	0.00	5.73	0.56	0.00	1.60	0 00:00	0.00	0.00
15	OS-20	Junction	3.38	4.46	3.38	4.46	0.00	4.39	4.46	0.00	0.00	0 12:45	13.78	589.00
16	OS-21	Junction	4.07	5.15	4.07	5.15	0.00	7.54	5.15	0.00	0.00	0 12:45	8.39	200.00
17	OS-22	Junction	4.98	6.06	4.98	6.06	0.00	4.88	6.06	0.00	0.00	0 12:45	2.36	139.00
18	OS-29	Junction	2.10	3.00	2.10	3.00	0.00	1.35	3.00	0.00	0.00	0 12:45	0.22	43.00
19	OS-31	Junction	2.32	3.40	2.32	3.40	0.00	2.85	3.40	0.00	0.00	0 12:45	4.54	235.00
20	OS-33	Junction	2.80	3.88	2.80	3.88	0.00	2.99	3.88	0.00	0.00	0 12:45	8.68	456.00
21	OS-35	Junction	4.08	5.16	4.08	5.16	0.00	1.96	5.16	0.00	0.00	0 12:45	0.07	27.00
22	OS-5	Junction	-0.84	1.32	-0.84	1.32	0.00	5.60	1.16	0.00	0.16	0 00:00	0.00	0.00
23	OS-58	Junction	3.62	4.70	3.62	4.70	0.00	3.70	4.70	0.00	0.00	0 12:45	2.42	167.00
24	OS-60	Junction	4.42	5.50	4.42	5.50	0.00	4.85	5.50	0.00	0.00	0 12:45	1.23	97.00
25	OS-62	Junction	4.31	5.39	4.31	5.39	0.00	3.29	5.39	0.00	0.00	0 12:45	2.16	145.00
26	OS-7	Junction	-0.74	5.09	-0.74	5.09	0.00	5.55	1.27	0.00	3.81	0 00:00	0.00	0.00
27	OS-8	Junction	-0.75	1.41	-0.75	1.41	0.00	12.04	1.41	0.00	0.00	0 12:45	24.07	682.00
28	OS-82	Junction	4.98	6.06	4.98	6.06	0.00	5.99	6.06	0.00	0.00	0 12:45	3.06	138.00
29	OS-9	Junction	0.22	2.38	0.22	2.38	0.00	9.82	2.15	0.00	0.23	0 00:00	0.00	0.00
30	OS-90	Junction	15.00	16.08	15.00	16.08	0.00	1.99	15.38	0.00	0.69	0 00:00	0.00	0.00
31	PUMP HOUSE	Junction	-6.72	0.22	-6.72	0.22	0.00	52.26	-4.50	0.00	4.72	0 00:00	0.00	0.00
32	SD-1	Junction	-6.70	-2.92	-6.70	-2.92	0.00	52.28	-3.42	0.00	0.51	0 00:00	0.00	0.00
33	SD-10	Junction	1.70	3.86	1.70	3.86	0.00	10.30	3.45	0.00	0.41	0 00:00	0.00	0.00
34	SD-11	Junction	2.10	4.26	2.10	4.26	0.00	8.79	3.74	0.00	0.53	0 00:00	0.00	0.00
35	SD-12	Junction	1.85	4.01	1.85	4.01	0.00	12.92	4.01	0.00	0.00	0 12:47	1.54	31.00
36	SD-13	Junction	2.95	4.29	2.95	4.29	0.00	1.23	4.21	0.00	0.08	0 00:00	0.00	0.00
37	SD-14	Junction	4.96	6.85	4.96	6.85	0.00	8.04	6.02	0.00	0.83	0 00:00	0.00	0.00
38	SD-17	Junction	6.12	7.20	6.12	7.20	0.00	0.57	6.40	0.00	0.80	0 00:00	0.00	0.00
39	SD-18	Junction	3.55	5.71	3.55	5.71	0.00	9.42	4.68	0.00	1.03	0 00:00	0.00	0.00
40	SD-1A	Junction	-3.64	-0.40	-3.64	-0.40	0.00	22.87	-2.25	0.00	1.85	0 00:00	0.00	0.00
41	SD-2	Junction	-5.60	-1.82	-5.60	-1.82	0.00	39.53	-2.71	0.00	0.90	0 00:00	0.00	0.00
42	SD-20	Junction	6.92	8.81	6.92	8.81	0.00	5.02	7.72	0.00	1.10	0 00:00	0.00	0.00
43	SD-200	Junction	35.77	37.11	35.77	37.11	0.00	2.08	36.09	0.00	1.02	0 00:00	0.00	0.00
44	SD-21	Junction	6.15	7.76	6.15	7.76	0.00	15.01	7.76	0.00	0.00	0 12:45	23.29	324.00
45	SD-2A	Junction	-4.00	-0.76	-4.00	-0.76	0.00	22.62	-1.40	0.00	0.64	0 00:00	0.00	0.00
46	SD-3	Junction	-3.44	-0.72	-3.44	-0.72	0.00	16.97	-2.01	0.00	1.29	0 00:00	0.00	0.00
47	SD-30	Junction	10.80	12.45	10.80	12.45	0.00	15.12	12.45	0.00	0.00	0 12:45	0.48	19.00
48	SD-30A	Junction	-1.28	0.88	-1.28	0.88	0.00	6.47	-0.80	0.00	1.69	0 00:00	0.00	0.00
49	SD-31	Junction	13.75	15.36	13.75	15.36	0.00	15.11	15.00	0.00	0.36	0 00:00	0.00	0.00
50	SD-31A	Junction	3.58	4.66	3.58	4.66	0.00	0.74	3.73	0.00	0.93	0 00:00	0.00	0.00
51	SD-32A	Junction	8.02	9.10	8.02	9.10	0.00	0.56	8.28	0.00	0.82	0 00:00	0.00	0.00
52	SD-33	Junction	-0.70	1.46	-0.70	1.46	0.00	5.63	0.29	0.00	1.17	0 00:00	0.00	0.00
53	SD-34	Junction	0.22	2.38	0.22	2.38	0.00	5.08	1.22	0.00	1.17	0 00:00	0.00	0.00
54	SD-3A	Junction	-2.03	0.69	-2.03	0.69	0.00	22.18	-0.17	0.00	0.86	0 00:00	0.00	0.00
55	SD-4	Junction	-3.36	-0.64	-3.36	-0.64	0.00	16.30	-0.84	0.00	0.20	0 00:00	0.00	0.00
56	SD-48	Junction	2.55	4.44	2.55	4.44	0.00	1.72	2.94	0.00	1.50	0 00:00	0.00	0.00
57	SD-4A	Junction	-1.24	1.48	-1.24	1.48	0.00	15.97	0.75	0.00	0.73	0 00:00	0.00	0.00
58	SD-5	Junction	-1.85	0.87	-1.85	0.87	0.00	16.05	-0.33	0.00	1.19	0 00:00	0.00	0.00
59	SD-50	Junction	3.22	4.30	3.22	4.30	0.00	1.53	3.55	0.00	0.74	0 00:00	0.00	0.00
60	SD-51	Junction	4.49	5.57	4.49	5.57	0.00	0.69	4.84	0.00	0.72	0 00:00	0.00	0.00
61	SD-51A	Junction	3.00	4.61	3.00	4.61	0.00	0.00	3.00	0.00	1.61	0 00:00	0.00	0.00
62	SD-54	Junction	3.00	4.61	3.00	4.61	0.00	0.00	3.00	0.00	1.61	0 00:00	0.00	0.00
63	SD-5A	Junction	1.35	3.51	1.35	3.51	0.00	10.34	2.43	0.00	1.08	0 00:00	0.00	0.00
64	SD-6	Junction	-0.70	1.74	-0.70	1.74	0.00	13.16	0.88	0.00	0.86	0 00:00	0.00	0.00
65	SD-6A	Junction	3.12	10.11	3.12	10.11	0.00	8.68	4.49	0.00	5.63	0 00:00	0.00	0.00
66	SD-7	Junction	0.95	10.82	0.95	10.82	0.00	12.78	2.28	0.00	8.53	0 00:00	0.00	0.00
67	SD-8	Junction	5.35	6.87	5.35	6.87	0.00	1.93	5.79	0.00	1.08	0 00:00	0.00	0.00
68	SD-80	Junction	9.05	10.66	9.05	10.66	0.00	3.43	9.55	0.00	1.11	0 00:00	0.00	0.00
69	SD-82	Junction	6.82	8.43	6.82	8.43	0.00	8.78	8.17	0.00	0.26	0 00:00	0.00	0.00
70	SD-8A	Junction	16.02	17.36	16.02	17.36	0.00	2.89	16.51	0.00	0.85	0 00:00	0.00	0.00
71	Out-1Pipe - (145)	Outfall	-6.92					52.26	-5.21					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported (min)	Surcharged Condition
1	Pipe - (102)	Pipe	OS-62	OS-35	336.80	4.31	4.08	0.0700	12.000	0.0130	1.29	1.59	0.81	1.68	1.00	1.00	99.00	SURCHARGED
2	Pipe - (103)	Pipe	OS-35	OS-19	299.99	4.08	3.26	0.2700	12.000	0.0130	1.64	1.86	0.88	2.09	1.00	1.00	99.00	SURCHARGED
3	Pipe - (106)	Pipe	OS-60	OS-33	329.29	4.42	2.80	0.4900	12.000	0.0130	2.43	2.50	0.97	3.13	1.00	1.00	99.00	SURCHARGED
4	Pipe - (107)	Pipe	OS-33	OS-16	309.60	2.80	2.26	0.1700	12.000	0.0130	0.73	1.59	0.46	1.58	1.00	1.00	508.00	SURCHARGED
5	Pipe - (11)	Pipe	SD-11	SD-10	148.20	2.10	1.70	0.2700	24.000	0.0130	8.48	11.75	0.72	3.12	1.69	0.85	0.00	Calculated
6	Pipe - (112)	Pipe	OS-90	OS-82	320.17	15.00	4.98	3.1300	12.000	0.0130	1.98	6.30	0.31	3.41	0.69	0.69	0.00	Calculated
7	Pipe - (113)	Pipe	OS-82	OS-58	327.14	4.98	3.62	0.4200	12.000	0.0130	2.21	2.30	0.96	2.95	1.00	1.00	144.00	SURCHARGED
8	Pipe - (114)	Pipe	OS-58	OS-31	332.09	3.62	2.32	0.3900	12.000	0.0130	2.14	2.23	0.96	2.75	1.00	1.00	168.00	SURCHARGED
9	Pipe - (115)	Pipe	OS-31	OS-13	304.81	2.32	1.12	0.3900	12.000	0.0130	1.36	2.24	0.61	1.73	1.00	1.00	265.00	SURCHARGED
10	Pipe - (12)	Pipe	SD-10	SD-7	351.53	1.70	0.95	0.2100	24.000	0.0130	10.26	10.45	0.98	4.01	1.54	0.77	0.00	Calculated
11	Pipe - (130)	Pipe	CBSD-32	SD-31	274.03	14.96	13.75	0.4400	15.000	0.0130	4.56	4.29	1.06	3.78	1.25	1.00	0.00	> CAPACITY
12	Pipe - (134)	Pipe	SD-31	SD-30	64.27	13.75	10.08	5.7100	18.000	0.0130	15.09	22.50	0.67	9.01	1.37	0.92	0.00	Calculated
13	Pipe - (135)	Pipe	SD-30	SD-21	267.89	10.80	6.15	1.7400	18.000	0.0130	13.09	13.84	0.95	7.52	1.50	1.00	21.00	SURCHARGED
14	Pipe - (136)	Pipe	SD-21	SD-20	33.80	6.15	6.92	-2.2800	18.000	0.0130	2.66	15.86	0.17	1.97	1.15	0.77	0.00	Calculated
15	Pipe - (137)	Pipe	SD-20	SD-14	355.68	6.92	4.96	0.5500	21.000	0.0130	4.99	11.76	0.42	3.92	0.93	0.53	0.00	Calculated
16	Pipe - (138)	Pipe	SD-14	SD-6A	304.44	4.96	3.12	0.6000	21.000	0.0130	8.00	12.32	0.65	4.52	1.19	0.69	0.00	Calculated
17	Pipe - (139)	Pipe	SD-6A	SD-5A	620.98	3.12	1.35	0.2900	24.000	0.0130	8.60	12.08	0.71	4.27	1.22	0.61	0.00	Calculated
18	Pipe - (140)	Pipe	SD-5A	SD-4A	407.77	1.35	-1.24	0.6400	24.000	0.0130	10.29	18.03	0.57	3.98	1.53	0.77	0.00	Calculated
19	Pipe - (141)	Pipe	SD-4A	SD-3A	385.27	-1.24	-2.03	0.2100	30.000	0.0130	15.86	18.57	0.85	4.05	1.92	0.77	0.00	Calculated
20	Pipe - (142)	Pipe	SD-3A	SD-2A	380.47	-2.03	-4.00	0.5200	30.000	0.0130	21.98	29.51	0.74	4.84	2.18	0.87	0.00	Calculated
21	Pipe - (143)	Pipe	SD-2A	SD-1A	79.03	-4.00	-3.64	-0.4600	36.000	0.0130	22.60	45.02	0.50	4.55	1.99	0.66	0.00	Calculated
22	Pipe - (144)	Pipe	SD-1A	SD-2	296.77	-3.64	-5.60	0.6600	36.000	0.0130	22.81	54.20	0.42	4.50	2.12	0.71	0.00	Calculated
23	Pipe - (145)	Pipe	PUMP HOUSE	Out-1Pipe - (145)	41.34	-6.72	-6.92	0.4800	72.000	0.0130	52.26	294.56	0.18	6.49	1.96	0.33	0.00	Calculated
24	Pipe - (146)	Pipe	OS-29	OS-11A	306.66	2.10	0.77	0.4300	10.000	0.0130	0.80	1.44	0.55	1.88	0.83	1.00	57.00	SURCHARGED
25	Pipe - (147)	Pipe	SD-8	SD-7	362.60	5.35	0.95	1.2100	15.000	0.0130	1.91	7.12	0.27	2.85	0.85	0.68	0.00	Calculated
26	Pipe - (15)	Pipe	SD-13	SD-12	344.33	2.95	1.85	0.3200	15.000	0.0130	1.30	3.65	0.35	1.06	1.21	1.00	0.00	SURCHARGED
27	Pipe - (16)	Pipe	SD-7	SD-6	346.76	0.95	-0.70	0.4800	27.000	0.0130	12.75	21.36	0.60	4.69	1.45	0.65	0.00	Calculated
28	Pipe - (17)	Pipe	SD-6	SD-5	333.85	-0.70	-1.85	0.3400	27.000	0.0130	13.13	18.18	0.72	4.75	1.55	0.69	0.00	Calculated
29	Pipe - (18)	Pipe	SD-5	SD-4	297.19	-1.85	-3.36	0.5100	30.000	0.0130	15.84	29.24	0.54	3.79	2.01	0.80	0.00	Calculated
30	Pipe - (19)	Pipe	SD-4	SD-3	389.78	-3.36	-3.44	0.0200	30.000	0.0130	16.29	18.34	0.89	4.03	1.95	0.79	0.00	Calculated
31	Pipe - (20)	Pipe	SD-3	SD-2	358.55	-3.44	-5.60	0.6000	30.000	0.0130	16.83	31.84	0.53	4.11	1.96	0.79	0.00	Calculated
32	Pipe - (21)	Pipe	SD-2	SD-1	336.06	-5.60	-6.70	0.3300	42.000	0.0130	39.50	57.56	0.69	4.41	3.07	0.88	0.00	Calculated
33	Pipe - (22)	Pipe	SD-1	PUMP HOUSE	50.00	-6.70	-6.72	0.0400	42.000	0.0130	52.26	44.99	1.16	6.45	2.74	0.78	0.00	> CAPACITY
34	Pipe - (25)	Pipe	SD-51	SD-50	219.31	4.49	3.22	0.5800	12.000	0.0130	0.69	2.71	0.25	2.86	0.34	0.34	0.00	Calculated
35	Pipe - (26)	Pipe	SD-50	SD-5	160.00	3.22	-1.85	3.1700	12.000	0.0130	1.53	6.34	0.24	2.74	0.67	0.67	0.00	Calculated
36	Pipe - (37)	Pipe	SD-200	SD-8A	384.17	35.77	16.02	5.1400	15.000	0.0130	2.06	14.65	0.14	6.03	0.40	0.32	0.00	Calculated
37	Pipe - (38)	Pipe	SD-8A	SD-80	353.49	16.02	9.05	1.9700	15.000	0.0130	2.86	9.07	0.32	6.28	0.49	0.40	0.00	Calculated
38	Pipe - (40)	Pipe	SD-80	SD-82	122.69	9.05	6.82	1.8200	18.000	0.0130	3.42	14.16	0.24	3.35	0.89	0.62	0.00	Calculated
39	Pipe - (41)	Pipe	SD-82	SD-18	457.23	6.82	3.55	0.7200	18.000	0.0130	8.68	8.88	0.98	5.62	1.19	0.83	0.00	Calculated
40	Pipe - (42)	Pipe	SD-18	SD-12	339.78	3.55	1.85	0.5000	24.000	0.0130	9.38	16.00	0.59	3.56	1.56	0.78	0.00	Calculated
41	Pipe - (46)	Pipe	SD-32A	SD-31A	272.65	8.02	3.58	1.6300	12.000	0.0130	0.56	4.55	0.12	4.83	0.20	0.20	0.00	Calculated
42	Pipe - (47)	Pipe	SD-31A	SD-30A	25.16	3.58	-1.28	19.3200	12.000	0.0130	0.74	15.66	0.05	3.75	0.31	0.31	0.00	Calculated
43	Pipe - (49)	Pipe	SD-30A	SD-1	101.35	-1.28	-6.70	5.3500	24.000	0.0130	6.47	52.31	0.12	3.17	1.24	0.62	0.00	Calculated
44	Pipe - (55)	Pipe	SD-54	SD-51A	396.65	3.00	3.00	0.0000	18.000	0.0130	0.00	4.70	0.00	0.00	0.00	0.00	0.00	Calculated
45	Pipe - (56)	Pipe	SD-51A	SD-48	409.94	3.00	2.55	0.1100	18.000	0.0130	0.00	4.70	0.00	0.00	0.19	0.13	0.00	Calculated
46	Pipe - (57)	Pipe	SD-48	SD-34	240.64	2.55	0.22	0.9700	21.000	0.0130	1.69	15.59	0.11	1.92	0.68	0.40	0.00	Calculated
47	Pipe - (58)	Pipe	SD-34	SD-33	375.99	0.22	-0.70	0.2400	24.000	0.0130	5.03	11.19	0.45	3.24	0.98	0.50	0.00	Calculated
48	Pipe - (59)	Pipe	SD-33	SD-30A	191.84	-0.70	-1.28	0.3000	24.000	0.0130	5.60	12.44	0.45	5.37	0.73	0.37	0.00	Calculated
49	Pipe - (7)	Pipe	SD-17	SD-13	373.82	6.12	2.95	0.8500	12.000	0.0130	0.56	3.28	0.17	1.49	0.64	0.64	0.00	Calculated
50	Pipe - (77)	Pipe	OS-22	OS-21	306.98	4.98	4.07	0.3000	12.000	0.0130	1.85	1.94	0.95	2.35	1.00	1.00	145.00	SURCHARGED
51	Pipe - (78)	Pipe	OS-21	OS-20	190.87	4.07	3.38	0.3600	12.000	0.0130	1.98	2.14	0.93	2.52	1.00	1.00	210.00	SURCHARGED
52	Pipe - (79)	Pipe	OS-20	OS-19	153.13	3.38	3.26	0.0800	12.000	0.0130	1.39	1.59	0.87	2.17	1.00	1.00	543.00	SURCHARGED
53	Pipe - (80)	Pipe	OS-19	OS-18	318.56	3.26	2.75	0.1600	15.000	0.0130	2.17	2.89	0.75	1.77	1.23	0.98	0.00	Calculated
54	Pipe - (81)	Pipe	OS-18	OS-17	64.43	2.75	2.90	-0.2300	15.000	0.0130	1.99	3.12	0.64	1.80	1.22	0.98	0.00	Calculated
55	Pipe - (82)	Pipe	OS-17	OS-16	269.12	2.90	2.26	0.2400	15.000	0.0130	2.17	3.15	0.69	2.08	1.22	0.98	0.00	Calculated
56	Pipe - (83)	Pipe	OS-16	OS-15	276.21	2.26	2.14	0.0400	18.000	0.0130	2.77	4.70	0.59	1.72	1.50	1.00	334.00	SURCHARGED

Link Summary

SN Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Reported Surcharged	Reported Condition	
				(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)		
57	Pipe - (84)	Pipe	OS-15	OS-14	44.70	2.14	2.02	0.2700	18.000	0.0130	4.18	5.44	0.77	2.78	1.50	1.00	311.00	SURCHARGED
58	Pipe - (85)	Pipe	OS-14	OS-13	333.43	2.02	1.12	0.2700	18.000	0.0130	4.47	5.46	0.82	2.56	1.50	1.00	311.00	SURCHARGED
59	Pipe - (86)	Pipe	OS-13	OS-12	319.08	1.12	0.92	0.0600	24.000	0.0130	6.34	10.12	0.63	2.13	2.00	1.00	25.00	SURCHARGED
60	Pipe - (87)	Pipe	OS-12	OS-11A	304.65	0.92	0.77	0.0500	24.000	0.0130	6.81	10.12	0.67	2.34	1.97	0.99	0.00	Calculated
61	Pipe - (88)	Pipe	OS-11A	OS-9	410.06	0.77	0.22	0.1300	24.000	0.0130	8.14	10.12	0.80	2.68	1.94	0.97	0.00	Calculated
62	Pipe - (89)	Pipe	OS-9	OS-8	349.30	0.22	-0.75	0.2800	24.000	0.0130	9.76	11.92	0.82	3.12	1.96	0.98	0.00	Calculated
63	Pipe - (9)	Pipe	SD-12	SD-11	162.73	1.85	2.10	-0.1500	24.000	0.0130	8.33	10.12	0.82	2.83	1.82	0.91	0.00	Calculated
64	Pipe - (90)	Pipe	OS-8	OS-7	223.55	-0.75	-0.74	0.0000	24.000	0.0130	5.38	10.12	0.53	1.71	2.00	1.00	33.00	SURCHARGED
65	Pipe - (91)	Pipe	OS-7	OS-5	107.24	-0.74	-0.84	0.0900	24.000	0.0130	5.55	10.12	0.55	1.77	2.00	1.00	0.00	Calculated
66	Pipe - (92)	Pipe	OS-5	OS-2	139.78	-0.84	0.00	-0.6000	24.000	0.0130	5.60	17.54	0.32	2.64	1.28	0.64	0.00	Calculated
67	Pipe - (93)	Pipe	OS-2	SD-1	313.88	0.00	-6.70	2.1300	24.000	0.0130	5.73	33.05	0.17	3.57	1.28	0.64	0.00	Calculated
68	Pipe - (97)	Pipe	OS-165	OS-153	374.39	4.24	3.18	0.2800	12.000	0.0130	1.57	1.90	0.83	2.01	1.00	1.00	161.00	SURCHARGED
69	Pipe - (98)	Pipe	OS-153	OS-127	371.01	3.18	2.27	0.2500	15.000	0.0130	2.54	3.20	0.79	2.07	1.25	1.00	168.00	SURCHARGED
70	Pipe - (99)	Pipe	OS-127	OS-15	309.61	2.27	2.14	0.0400	18.000	0.0130	1.98	4.70	0.42	1.24	1.50	1.00	285.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	CBSD-32	14.96	16.30	1.34	14.96	0.00	16.30	0.00	0.00	0.00
2	OS-11A	0.77	2.93	2.16	0.77	0.00	2.93	0.00	0.00	0.00
3	OS-12	0.92	3.08	2.16	0.92	0.00	3.08	0.00	0.00	0.00
4	OS-127	2.27	3.88	1.61	2.27	0.00	3.88	0.00	0.00	0.00
5	OS-13	1.12	3.28	2.16	1.12	0.00	3.28	0.00	0.00	0.00
6	OS-14	2.02	3.63	1.61	2.02	0.00	3.63	0.00	0.00	0.00
7	OS-15	2.14	3.75	1.61	2.14	0.00	3.75	0.00	0.00	0.00
8	OS-153	3.18	4.52	1.34	3.18	0.00	4.52	0.00	0.00	0.00
9	OS-16	2.26	10.48	8.22	2.26	0.00	10.48	0.00	0.00	0.00
10	OS-165	4.24	5.32	1.08	4.24	0.00	5.32	0.00	0.00	0.00
11	OS-17	2.90	4.24	1.34	2.90	0.00	4.24	0.00	0.00	0.00
12	OS-18	2.75	4.09	1.34	2.75	0.00	4.09	0.00	0.00	0.00
13	OS-19	3.26	4.60	1.34	3.26	0.00	4.60	0.00	0.00	0.00
14	OS-2	0.00	2.16	2.16	0.00	0.00	2.16	0.00	0.00	0.00
15	OS-20	3.38	4.46	1.08	3.38	0.00	4.46	0.00	0.00	0.00
16	OS-21	4.07	5.15	1.08	4.07	0.00	5.15	0.00	0.00	0.00
17	OS-22	4.98	6.06	1.08	4.98	0.00	6.06	0.00	0.00	0.00
18	OS-29	2.10	3.00	0.90	2.10	0.00	3.00	0.00	0.00	0.00
19	OS-31	2.32	3.40	1.08	2.32	0.00	3.40	0.00	0.00	0.00
20	OS-33	2.80	3.88	1.08	2.80	0.00	3.88	0.00	0.00	0.00
21	OS-35	4.08	5.16	1.08	4.08	0.00	5.16	0.00	0.00	0.00
22	OS-5	-0.84	1.32	2.16	-0.84	0.00	1.32	0.00	0.00	0.00
23	OS-58	3.62	4.70	1.08	3.62	0.00	4.70	0.00	0.00	0.00
24	OS-60	4.42	5.50	1.08	4.42	0.00	5.50	0.00	0.00	0.00
25	OS-62	4.31	5.39	1.08	4.31	0.00	5.39	0.00	0.00	0.00
26	OS-7	-0.74	5.09	5.83	-0.74	0.00	5.09	0.00	0.00	0.00
27	OS-8	-0.75	1.41	2.16	-0.75	0.00	1.41	0.00	0.00	0.00
28	OS-82	4.98	6.06	1.08	4.98	0.00	6.06	0.00	0.00	0.00
29	OS-9	0.22	2.38	2.16	0.22	0.00	2.38	0.00	0.00	0.00
30	OS-90	15.00	16.08	1.08	15.00	0.00	16.08	0.00	0.00	0.00
31	PUMP HOUSE	-6.72	0.22	6.94	-6.72	0.00	0.22	0.00	0.00	0.00
32	SD-1	-6.70	-2.92	3.79	-6.70	0.00	-2.92	0.00	0.00	0.00
33	SD-10	1.70	3.86	2.16	1.70	0.00	3.86	0.00	0.00	0.00
34	SD-11	2.10	4.26	2.16	2.10	0.00	4.26	0.00	0.00	0.00
35	SD-12	1.85	4.01	2.16	1.85	0.00	4.01	0.00	0.00	0.00
36	SD-13	2.95	4.29	1.34	2.95	0.00	4.29	0.00	0.00	0.00
37	SD-14	4.96	6.85	1.89	4.96	0.00	6.85	0.00	0.00	0.00
38	SD-17	6.12	7.20	1.08	6.12	0.00	7.20	0.00	0.00	0.00
39	SD-18	3.55	5.71	2.16	3.55	0.00	5.71	0.00	0.00	0.00
40	SD-1A	-3.64	-0.40	3.24	-3.64	0.00	-0.40	0.00	0.00	0.00
41	SD-2	-5.60	-1.82	3.79	-5.60	0.00	-1.82	0.00	0.00	0.00
42	SD-20	6.92	8.81	1.89	6.92	0.00	8.81	0.00	0.00	0.00
43	SD-200	35.77	37.11	1.34	35.77	0.00	37.11	0.00	0.00	0.00
44	SD-21	6.15	7.76	1.61	6.15	0.00	7.76	0.00	0.00	0.00
45	SD-2A	-4.00	-0.76	3.24	-4.00	0.00	-0.76	0.00	0.00	0.00
46	SD-3	-3.44	-0.72	2.72	-3.44	0.00	-0.72	0.00	0.00	0.00
47	SD-30	10.80	12.45	1.65	10.80	0.00	12.45	0.00	0.00	0.00
48	SD-30A	-1.28	0.88	2.16	-1.28	0.00	0.88	0.00	0.00	0.00
49	SD-31	13.75	15.36	1.61	13.75	0.00	15.36	0.00	0.00	0.00
50	SD-31A	3.58	4.66	1.08	3.58	0.00	4.66	0.00	0.00	0.00
51	SD-32A	8.02	9.10	1.08	8.02	0.00	9.10	0.00	0.00	0.00
52	SD-33	-0.70	1.46	2.16	-0.70	0.00	1.46	0.00	0.00	0.00
53	SD-34	0.22	2.38	2.16	0.22	0.00	2.38	0.00	0.00	0.00
54	SD-3A	-2.03	0.69	2.72	-2.03	0.00	0.69	0.00	0.00	0.00
55	SD-4	-3.36	-0.64	2.72	-3.36	0.00	-0.64	0.00	0.00	0.00
56	SD-48	2.55	4.44	1.89	2.55	0.00	4.44	0.00	0.00	0.00
57	SD-4A	-1.24	1.48	2.72	-1.24	0.00	1.48	0.00	0.00	0.00
58	SD-5	-1.85	0.87	2.72	-1.85	0.00	0.87	0.00	0.00	0.00
59	SD-50	3.22	4.30	1.08	3.22	0.00	4.30	0.00	0.00	0.00
60	SD-51	4.49	5.57	1.08	4.49	0.00	5.57	0.00	0.00	0.00
61	SD-51A	3.00	4.61	1.61	3.00	0.00	4.61	0.00	0.00	0.00
62	SD-54	3.00	4.61	1.61	3.00	0.00	4.61	0.00	0.00	0.00
63	SD-5A	1.35	3.51	2.16	1.35	0.00	3.51	0.00	0.00	0.00
64	SD-6	-0.70	1.74	2.44	-0.70	0.00	1.74	0.00	0.00	0.00
65	SD-6A	3.12	10.11	6.99	3.12	0.00	10.11	0.00	0.00	0.00
66	SD-7	0.95	10.82	9.87	0.95	0.00	10.82	0.00	0.00	0.00
67	SD-8	5.35	6.87	1.52	5.35	0.00	6.87	0.00	0.00	0.00
68	SD-80	9.05	10.66	1.61	9.05	0.00	10.66	0.00	0.00	0.00
69	SD-82	6.82	8.43	1.61	6.82	0.00	8.43	0.00	0.00	0.00
70	SD-8A	16.02	17.36	1.34	16.02	0.00	17.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
		(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1	CBSD-32	5.47	5.47	16.30	1.34	0.00	0.00	15.37	0.41	0 12:41	0 12:45	0.15	15.00
2	OS-11A	8.27	0.86	2.72	1.95	0.00	0.21	2.05	1.28	0 12:46	0 00:00	0.00	0.00
3	OS-12	6.88	0.84	3.03	2.11	0.00	0.06	2.37	1.45	0 12:46	0 00:00	0.00	0.00
4	OS-127	4.87	2.33	3.88	1.61	0.00	0.00	3.42	1.15	0 09:58	0 12:45	5.26	197.00
5	OS-13	6.44	2.45	3.28	2.16	0.00	0.00	2.62	1.50	0 12:42	0 12:46	0.05	11.00
6	OS-14	6.02	2.37	3.63	1.61	0.00	0.00	3.18	1.16	0 11:18	0 12:45	3.13	171.00
7	OS-15	5.74	1.60	3.75	1.61	0.00	0.00	3.35	1.21	0 09:47	0 12:45	3.80	225.00
8	OS-153	4.93	3.36	4.52	1.34	0.00	0.00	3.82	0.64	0 11:21	0 12:45	2.41	164.00
9	OS-16	2.93	0.63	3.89	1.63	0.00	6.58	3.53	1.27	0 12:45	0 00:00	0.00	0.00
10	OS-165	4.78	4.78	5.32	1.08	0.00	0.00	4.71	0.47	0 11:22	0 12:45	2.90	157.00
11	OS-17	2.24	1.80	4.09	1.19	0.00	0.15	3.79	0.89	0 12:45	0 00:00	0.00	0.00
12	OS-18	3.83	1.59	4.09	1.34	0.00	0.00	3.87	1.12	0 07:40	0 12:45	8.56	486.00
13	OS-19	2.30	0.67	4.46	1.20	0.00	0.14	4.13	0.87	0 12:45	0 00:00	0.00	0.00
14	OS-2	5.73	0.13	0.56	0.56	0.00	1.60	0.50	0.50	0 12:45	0 00:00	0.00	0.00
15	OS-20	4.39	2.28	4.46	1.08	0.00	0.00	4.27	0.89	0 07:28	0 12:45	13.78	589.00
16	OS-21	7.54	5.69	5.15	1.08	0.00	0.00	4.71	0.64	0 09:56	0 12:45	8.39	200.00
17	OS-22	4.88	4.88	6.06	1.08	0.00	0.00	5.44	0.46	0 11:24	0 12:45	2.36	139.00
18	OS-29	1.35	1.35	3.00	0.90	0.00	0.00	2.38	0.28	0 12:37	0 12:45	0.22	43.00
19	OS-31	2.85	0.72	3.40	1.08	0.00	0.00	2.97	0.65	0 09:01	0 12:45	4.54	235.00
20	OS-33	2.99	0.39	3.88	1.08	0.00	0.00	3.58	0.78	0 07:41	0 12:45	8.68	456.00
21	OS-35	1.96	1.07	5.16	1.08	0.00	0.00	4.53	0.45	0 12:37	0 12:45	0.07	27.00
22	OS-5	5.60	0.06	1.16	2.00	0.00	0.16	0.99	1.83	0 12:45	0 00:00	0.00	0.00
23	OS-58	3.70	1.51	4.70	1.08	0.00	0.00	4.14	0.52	0 11:22	0 12:45	2.42	167.00
24	OS-60	4.85	4.85	5.50	1.08	0.00	0.00	4.83	0.41	0 11:30	0 12:45	1.23	97.00
25	OS-62	3.29	3.29	5.39	1.08	0.00	0.00	4.85	0.54	0 11:24	0 12:45	2.16	145.00
26	OS-7	5.55	0.68	1.27	2.01	0.00	3.81	1.08	1.82	0 12:45	0 00:00	0.00	0.00
27	OS-8	12.04	2.30	1.41	2.16	0.00	0.00	1.21	1.96	0 07:26	0 12:45	24.07	682.00
28	OS-82	5.99	4.02	6.06	1.08	0.00	0.00	5.45	0.47	0 11:25	0 12:45	3.06	138.00
29	OS-9	9.82	1.72	2.15	1.93	0.00	0.23	1.51	1.29	0 12:45	0 00:00	0.00	0.00
30	OS-90	1.99	1.99	15.38	0.38	0.00	0.69	15.15	0.15	0 12:45	0 00:00	0.00	0.00
31	PUMP HOUSE	52.26	0.00	-4.50	2.22	0.00	4.72	-5.59	1.13	0 12:52	0 00:00	0.00	0.00
32	SD-1	52.28	1.14	-3.42	3.28	0.00	0.51	-5.09	1.61	0 12:52	0 00:00	0.00	0.00
33	SD-10	10.30	2.23	3.45	1.75	0.00	0.41	2.49	0.79	0 12:45	0 00:00	0.00	0.00
34	SD-11	8.79	0.61	3.74	1.64	0.00	0.53	2.80	0.70	0 12:45	0 00:00	0.00	0.00
35	SD-12	12.92	2.43	4.01	2.16	0.00	0.00	3.00	1.15	0 12:39	0 12:47	1.54	31.00
36	SD-13	1.23	0.68	4.21	1.26	0.00	0.08	3.24	0.29	0 12:41	0 00:00	0.00	0.00
37	SD-14	8.04	3.05	6.02	1.06	0.00	0.83	5.54	0.58	0 12:45	0 00:00	0.00	0.00
38	SD-17	0.57	0.57	6.40	0.28	0.00	0.80	6.23	0.11	0 12:46	0 00:00	0.00	0.00
39	SD-18	9.42	0.77	4.68	1.13	0.00	1.03	4.01	0.46	0 12:48	0 00:00	0.00	0.00
40	SD-1A	22.87	0.29	-2.25	1.39	0.00	1.85	-3.00	0.64	0 12:51	0 00:00	0.00	0.00
41	SD-2	39.53	0.00	-2.71	2.89	0.00	0.90	-4.57	1.03	0 12:53	0 00:00	0.00	0.00
42	SD-20	5.02	3.50	7.72	0.80	0.00	1.10	7.46	0.54	0 12:45	0 00:00	0.00	0.00
43	SD-200	2.08	2.08	36.09	0.32	0.00	1.02	35.93	0.16	0 12:45	0 00:00	0.00	0.00
44	SD-21	15.01	2.27	7.76	1.61	0.00	0.00	7.57	1.42	0 08:45	0 12:45	23.29	324.00
45	SD-2A	22.62	0.69	-1.40	2.60	0.00	0.64	-2.62	1.38	0 12:50	0 00:00	0.00	0.00
46	SD-3	16.97	0.75	-2.01	1.43	0.00	1.29	-2.85	0.59	0 12:53	0 00:00	0.00	0.00
47	SD-30	15.12	0.04	12.45	1.65	0.00	0.00	11.27	0.47	0 12:41	0 12:45	0.48	19.00
48	SD-30A	6.47	0.16	-0.80	0.48	0.00	1.69	-1.10	0.18	0 12:47	0 00:00	0.00	0.00
49	SD-31	15.11	10.92	15.00	1.25	0.00	0.36	14.13	0.38	0 12:45	0 00:00	0.00	0.00
50	SD-31A	0.74	0.18	3.73	0.15	0.00	0.93	3.64	0.06	0 12:45	0 00:00	0.00	0.00
51	SD-32A	0.56	0.56	8.28	0.26	0.00	0.82	8.12	0.10	0 12:45	0 00:00	0.00	0.00
52	SD-33	5.63	0.62	0.29	0.99	0.00	1.17	-0.33	0.37	0 12:47	0 00:00	0.00	0.00
53	SD-34	5.08	3.42	1.22	1.00	0.00	1.17	0.57	0.35	0 12:46	0 00:00	0.00	0.00
54	SD-3A	22.18	6.67	-0.17	1.86	0.00	0.86	-1.31	0.72	0 12:50	0 00:00	0.00	0.00
55	SD-4	16.30	0.50	-0.84	2.52	0.00	0.20	-2.16	1.20	0 12:50	0 00:00	0.00	0.00
56	SD-48	1.72	1.72	2.94	0.39	0.00	1.50	2.70	0.15	0 12:46	0 00:00	0.00	0.00
57	SD-4A	15.97	5.98	0.75	1.99	0.00	0.73	-0.35	0.89	0 12:49	0 00:00	0.00	0.00
58	SD-5	16.05	1.49	-0.33	1.52	0.00	1.19	-1.24	0.61	0 12:50	0 00:00	0.00	0.00
59	SD-50	1.53	0.85	3.55	0.33	0.00	0.74	3.35	0.13	0 12:45	0 00:00	0.00	0.00
60	SD-51	0.69	0.69	4.84	0.35	0.00	0.72	4.63	0.14	0 12:45	0 00:00	0.00	0.00
61	SD-51A	0.00	0.00	3.00	0.00	0.00	1.61	3.00	0.00	0 00:00	0 00:00	0.00	0.00
62	SD-54	0.00	0.00	3.00	0.00	0.00	1.61	3.00	0.00	0 00:00	0 00:00	0.00	0.00
63	SD-5A	10.34	1.81	2.43	1.08	0.00	1.08	1.92	0.57	0 12:49	0 00:00	0.00	0.00
64	SD-6	13.16	0.42	0.88	1.58	0.00	0.86	-0.01	0.69	0 12:47	0 00:00	0.00	0.00
65	SD-6A	8.68	0.69	4.49	1.37	0.00	5.63	3.84	0.72	0 12:47	0 00:00	0.00	0.00
66	SD-7	12.78	0.61	2.28	1.33	0.00	8.53	1.55	0.60	0 12:46	0 00:00	0.00	0.00
67	SD-8	1.93	1.93	5.79	0.44	0.00	1.08	5.52	0.17	0 12:45	0 00:00	0.00	0.00
68	SD-80	3.43	0.58	9.55	0.50	0.00	1.11	9.30	0.25	0 12:46	0 00:00	0.00	0.00
69	SD-82	8.78	5.44	8.17	1.35	0.00	0.26	7.29	0.47	0 12:47	0 00:00	0.00	0.00
70	SD-8A	2.89	0.84	16.51	0.49	0.00	0.85	16.27	0.25	0 12:45	0 00:00	0.00	0.00

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	Pipe - (102)	1.29	0 11:24	1.59	0.81	1.68	3.34	1.00	1.00	99.00	0.32	SURCHARGED
2	Pipe - (103)	1.64	0 13:04	1.86	0.88	2.09	2.39	1.00	1.00	99.00	0.21	SURCHARGED
3	Pipe - (106)	2.43	0 12:35	2.50	0.97	3.13	1.75	1.00	1.00	99.00	0.34	SURCHARGED
4	Pipe - (107)	0.73	0 08:47	1.59	0.46	1.58	3.27	1.00	1.00	508.00	0.06	SURCHARGED
5	Pipe - (11)	8.48	0 12:40	11.75	0.72	3.12	0.79	1.69	0.85	0.00	0.56	Calculated
6	Pipe - (112)	1.98	0 12:45	6.30	0.31	3.41	1.56	0.69	0.69	0.00	0.57	Calculated
7	Pipe - (113)	2.21	0 11:25	2.30	0.96	2.95	1.85	1.00	1.00	144.00	0.59	SURCHARGED
8	Pipe - (114)	2.14	0 11:22	2.23	0.96	2.75	2.01	1.00	1.00	168.00	0.50	SURCHARGED
9	Pipe - (115)	1.36	0 09:01	2.24	0.61	1.73	2.94	1.00	1.00	265.00	0.16	SURCHARGED
10	Pipe - (12)	10.26	0 12:45	10.45	0.98	4.01	1.46	1.54	0.77	0.00	0.71	Calculated
11	Pipe - (130)	4.56	0 12:42	4.29	1.06	3.78	1.21	1.25	1.00	0.00	0.87	> CAPACITY
12	Pipe - (134)	15.09	0 12:45	22.50	0.67	9.01	0.12	1.37	0.92	0.00	2.11	Calculated
13	Pipe - (135)	13.09	0 12:41	13.84	0.95	7.52	0.59	1.50	1.00	21.00	0.38	SURCHARGED
14	Pipe - (136)	2.66	0 08:45	15.86	0.17	1.97	0.29	1.15	0.77	0.00	0.27	Calculated
15	Pipe - (137)	4.99	0 12:45	11.76	0.42	3.92	1.51	0.93	0.53	0.00	0.97	Calculated
16	Pipe - (138)	8.00	0 12:46	12.32	0.65	4.52	1.12	1.19	0.69	0.00	0.87	Calculated
17	Pipe - (139)	8.60	0 12:48	12.08	0.71	4.27	2.42	1.22	0.61	0.00	0.84	Calculated
18	Pipe - (140)	10.29	0 12:49	18.03	0.57	3.98	1.71	1.53	0.77	0.00	0.75	Calculated
19	Pipe - (141)	15.86	0 12:49	18.57	0.85	4.05	1.59	1.92	0.77	0.00	0.71	Calculated
20	Pipe - (142)	21.98	0 12:50	29.51	0.74	4.84	1.31	2.18	0.87	0.00	0.50	Calculated
21	Pipe - (143)	22.60	0 12:50	45.02	0.50	4.55	0.29	1.99	0.66	0.00	0.49	Calculated
22	Pipe - (144)	22.81	0 12:51	54.20	0.42	4.50	1.10	2.12	0.71	0.00	0.79	Calculated
23	Pipe - (145)	52.26	0 12:52	294.56	0.18	6.49	0.11	1.96	0.33	0.00	0.96	Calculated
24	Pipe - (146)	0.80	0 13:39	1.44	0.55	1.88	2.72	0.83	1.00	57.00	0.11	SURCHARGED
25	Pipe - (147)	1.91	0 12:45	7.12	0.27	2.85	2.12	0.85	0.68	0.00	0.29	Calculated
26	Pipe - (15)	1.30	0 12:42	3.65	0.35	1.06	5.41	1.21	1.00	0.00	0.06	SURCHARGED
27	Pipe - (16)	12.75	0 12:46	21.36	0.60	4.69	1.23	1.45	0.65	0.00	0.87	Calculated
28	Pipe - (17)	13.13	0 12:48	18.18	0.72	4.75	1.17	1.55	0.69	0.00	0.88	Calculated
29	Pipe - (18)	15.84	0 12:49	29.24	0.54	3.79	1.31	2.01	0.80	0.00	0.48	Calculated
30	Pipe - (19)	16.29	0 12:50	18.34	0.89	4.03	1.61	1.95	0.79	0.00	0.50	Calculated
31	Pipe - (20)	16.83	0 12:54	31.84	0.53	4.11	1.45	1.96	0.79	0.00	0.66	Calculated
32	Pipe - (21)	39.50	0 12:53	57.56	0.69	4.41	1.27	3.07	0.88	0.00	0.48	Calculated
33	Pipe - (22)	52.26	0 12:52	44.99	1.16	6.45	0.13	2.74	0.78	0.00	0.74	> CAPACITY
34	Pipe - (25)	0.69	0 12:45	2.71	0.25	2.86	1.28	0.34	0.34	0.00	0.94	Calculated
35	Pipe - (26)	1.53	0 12:45	6.34	0.24	2.74	0.97	0.67	0.67	0.00	0.31	Calculated
36	Pipe - (37)	2.06	0 12:45	14.65	0.14	6.03	1.06	0.40	0.32	0.00	1.88	Calculated
37	Pipe - (38)	2.86	0 12:45	9.07	0.32	6.28	0.94	0.49	0.40	0.00	1.82	Calculated
38	Pipe - (40)	3.42	0 12:46	14.16	0.24	3.35	0.61	0.89	0.62	0.00	0.97	Calculated
39	Pipe - (41)	8.68	0 12:47	8.88	0.98	5.62	1.36	1.19	0.83	0.00	1.13	Calculated
40	Pipe - (42)	9.38	0 12:48	16.00	0.59	3.56	1.59	1.56	0.78	0.00	0.35	Calculated
41	Pipe - (46)	0.56	0 12:45	4.55	0.12	4.83	0.94	0.20	0.20	0.00	1.93	Calculated
42	Pipe - (47)	0.74	0 12:45	15.66	0.05	3.75	0.11	0.31	0.31	0.00	1.21	Calculated
43	Pipe - (49)	6.47	0 12:47	52.31	0.12	3.17	0.53	1.24	0.62	0.00	0.16	Calculated
44	Pipe - (55)	0.00	0 00:00	4.70	0.00	0.00		0.00	0.00	0.00	0.00	Calculated
45	Pipe - (56)	0.00	0 00:00	4.70	0.00	0.00		0.19	0.13	0.00	0.00	Calculated
46	Pipe - (57)	1.69	0 12:46	15.59	0.11	1.92	2.09	0.68	0.40	0.00	0.47	Calculated
47	Pipe - (58)	5.03	0 12:46	11.19	0.45	3.24	1.93	0.98	0.50	0.00	0.63	Calculated
48	Pipe - (59)	5.60	0 12:47	12.44	0.45	5.37	0.60	0.73	0.37	0.00	1.16	Calculated
49	Pipe - (7)	0.56	0 12:46	3.28	0.17	1.49	4.18	0.64	0.64	0.00	0.52	Calculated
50	Pipe - (77)	1.85	0 12:45	1.94	0.95	2.35	2.18	1.00	1.00	145.00	0.36	SURCHARGED
51	Pipe - (78)	1.98	0 12:36	2.14	0.93	2.52	1.26	1.00	1.00	210.00	0.29	SURCHARGED
52	Pipe - (79)	1.39	0 08:39	1.59	0.87	2.17	1.18	1.00	1.00	543.00	0.15	SURCHARGED
53	Pipe - (80)	2.17	0 12:45	2.89	0.75	1.77	3.00	1.23	0.98	0.00	0.24	Calculated
54	Pipe - (81)	1.99	0 08:42	3.12	0.64	1.80	0.60	1.22	0.98	0.00	0.22	Calculated
55	Pipe - (82)	2.17	0 08:43	3.15	0.69	2.08	2.16	1.22	0.98	0.00	0.25	Calculated
56	Pipe - (83)	2.77	0 08:47	4.70	0.59	1.72	2.68	1.50	1.00	334.00	0.16	SURCHARGED
57	Pipe - (84)	4.18	0 08:47	5.44	0.77	2.78	0.27	1.50	1.00	311.00	0.30	SURCHARGED
58	Pipe - (85)	4.47	0 11:07	5.46	0.82	2.56	2.17	1.50	1.00	311.00	0.24	SURCHARGED
59	Pipe - (86)	6.34	0 12:34	10.12	0.63	2.13	2.50	2.00	1.00	25.00	0.26	SURCHARGED
60	Pipe - (87)	6.81	0 12:42	10.12	0.67	2.34	2.17	1.97	0.99	0.00	0.32	Calculated
61	Pipe - (88)	8.14	0 12:43	10.12	0.80	2.68	2.55	1.94	0.97	0.00	0.40	Calculated
62	Pipe - (89)	9.76	0 12:46	11.92	0.82	3.12	1.87	1.96	0.98	0.00	0.26	Calculated
63	Pipe - (9)	8.33	0 12:39	10.12	0.82	2.83	0.96	1.82	0.91	0.00	0.34	Calculated
64	Pipe - (90)	5.38	0 19:47	10.12	0.53	1.71	2.18	2.00	1.00	33.00	0.08	SURCHARGED
65	Pipe - (91)	5.55	0 12:45	10.12	0.55	1.77	1.01	2.00	1.00	0.00	0.10	Calculated
66	Pipe - (92)	5.60	0 12:45	17.54	0.32	2.64	0.88	1.28	0.64	0.00	0.41	Calculated
67	Pipe - (93)	5.73	0 12:45	33.05	0.17	3.57	1.47	1.28	0.64	0.00	0.59	Calculated
68	Pipe - (97)	1.57	0 12:45	1.90	0.83	2.01	3.10	1.00	1.00	161.00	0.40	SURCHARGED
69	Pipe - (98)	2.54	0 12:44	3.20	0.79	2.07	2.99	1.25	1.00	168.00	0.19	SURCHARGED
70	Pipe - (99)	1.98	0 12:27	4.70	0.42	1.24	4.16	1.50	1.00	285.00	0.09	SURCHARGED

10th Street 2-year Flow SWMM Modeling Report

Project Description

File Name 10th street pump station basin_existing 2 year flow.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 05, 2006 07:15:00
End Analysis On Jan 06, 2006 07:15:00
Start Reporting On Jan 05, 2006 07:15:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	21
<i>Junctions</i>	20
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	20
<i>Channels</i>	0
<i>Pipes</i>	20
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Ponded Area	Peak Inflow	Max HGL Elevation Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
			(ft)	(ft)	(ft)	(ft)	(ft ²)	(cfs)	(ft)	(ft)	(ft)	(days hh:mm)	(ac-in)	(min)
1	NODE-1	Junction	6.35	10.75	6.35	10.75	0.00	2.57	9.66	0.00	1.09	0 00:00	0.00	0.00
2	NODE-12	Junction	1.46	10.78	1.46	10.78	0.00	11.95	3.07	0.00	7.72	0 00:00	0.00	0.00
3	NODE-13	Junction	5.88	12.19	5.88	12.19	0.00	5.08	8.73	0.00	3.46	0 00:00	0.00	0.00
4	NODE-14	Junction	6.39	12.73	6.39	12.73	0.00	1.48	9.30	0.00	3.43	0 00:00	0.00	0.00
5	NODE-2	Junction	6.20	10.21	6.20	10.21	0.00	3.35	9.47	0.00	0.74	0 00:00	0.00	0.00
6	NODE-3	Junction	6.32	10.38	6.32	10.38	0.00	2.90	9.62	0.00	0.76	0 00:00	0.00	0.00
7	NODE-4	Junction	6.13	10.50	6.13	10.50	0.00	3.45	9.29	0.00	1.21	0 00:00	0.00	0.00
8	NODE-5	Junction	6.05	12.21	6.05	12.21	0.00	4.66	9.03	0.00	3.19	0 00:00	0.00	0.00
9	NODE-6	Junction	7.59	11.75	7.59	11.75	0.00	0.94	9.54	0.00	2.22	0 00:00	0.00	0.00
10	NODE-7	Junction	7.75	12.07	7.75	12.07	0.00	0.69	9.55	0.00	2.52	0 00:00	0.00	0.00
11	NODE-8	Junction	5.75	11.21	5.75	11.21	0.00	5.26	8.44	0.00	2.77	0 00:00	0.00	0.00
12	SD-10	Junction	6.40	10.34	6.40	10.34	0.00	2.34	9.69	0.00	0.65	0 00:00	0.00	0.00
13	SD-11	Junction	7.00	12.59	7.00	12.59	0.00	1.32	9.47	0.00	3.11	0 00:00	0.00	0.00
14	SD-12	Junction	8.94	11.77	8.94	10.48	0.00	0.60	9.60	0.00	2.18	0 00:00	0.00	0.00
15	SD-18	Junction	8.58	11.25	8.58	10.10	0.00	1.61	11.25	0.00	0.00	0 11:42	0.00	0.00
16	SD-20	Junction	6.78	9.87	6.78	9.87	0.00	2.42	9.87	0.00	0.00	0 12:00	0.05	11.00
17	SD-22	Junction	6.12	9.69	6.12	9.69	0.00	2.01	9.69	0.00	0.00	0 12:00	0.71	31.00
18	SD-5	Junction	4.25	11.08	4.25	11.08	0.00	10.74	5.45	0.00	5.64	0 00:00	0.00	0.00
19	SD-6	Junction	5.66	10.48	5.66	10.48	0.00	8.44	8.17	0.00	2.31	0 00:00	0.00	0.00
20	SD-9	Junction	6.10	11.96	6.10	11.96	0.00	4.28	9.17	0.00	2.80	0 00:00	0.00	0.00
21	Out-1Pipe - (27)	Outfall	-1.70					11.83	-0.53					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged	Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	Pipe - (1)	Pipe	SD-22	SD-20	371.25	6.12	6.78	-0.1800	12.000	0.0130	0.87	1.59	0.54	1.10	1.00	1.00	50.00	SURCHARGED
2	Pipe - (10)	Pipe	NODE-4	SD-9	26.14	6.13	6.10	0.1100	15.000	0.0130	3.45	2.89	1.20	2.82	1.25	1.00	44.00	SURCHARGED
3	Pipe - (11)	Pipe	SD-12	NODE-7	138.39	8.94	7.75	0.8600	12.000	0.0130	0.63	3.30	0.19	2.41	0.81	0.83	0.00	Calculated
4	Pipe - (12)	Pipe	NODE-7	NODE-6	18.72	7.75	7.59	0.8600	12.000	0.0130	0.70	3.29	0.21	2.24	1.00	1.00	22.00	SURCHARGED
5	Pipe - (13)	Pipe	NODE-6	SD-11	68.14	7.59	7.00	0.8600	12.000	0.0130	0.95	3.30	0.29	2.40	1.00	1.00	24.00	SURCHARGED
6	Pipe - (14)	Pipe	SD-11	NODE-14	103.63	7.00	6.39	0.5900	12.000	0.0130	1.33	2.73	0.49	1.74	1.00	1.00	33.00	SURCHARGED
7	Pipe - (15)	Pipe	NODE-14	SD-9	50.20	6.39	6.10	0.5800	12.000	0.0130	1.49	2.71	0.55	1.89	1.00	1.00	43.00	SURCHARGED
8	Pipe - (16)	Pipe	SD-9	NODE-5	31.53	6.10	6.05	0.1700	18.000	0.0130	4.32	4.70	0.92	2.44	1.50	1.00	36.00	SURCHARGED
9	Pipe - (17)	Pipe	NODE-5	NODE-13	100.25	6.05	5.88	0.1700	18.000	0.0130	4.69	4.70	1.00	2.65	1.50	1.00	35.00	SURCHARGED
10	Pipe - (18)	Pipe	NODE-13	NODE-8	75.32	5.88	5.75	0.1700	18.000	0.0130	5.09	4.70	1.08	2.88	1.50	1.00	33.00	SURCHARGED
11	Pipe - (19)	Pipe	NODE-8	SD-6	55.18	5.75	5.66	0.1600	18.000	0.0130	5.28	4.70	1.12	2.99	1.50	1.00	30.00	SURCHARGED
12	Pipe - (2)	Pipe	SD-18	SD-20	222.91	8.58	6.78	0.8100	12.000	0.0130	1.61	3.20	0.50	2.63	1.00	1.00	32.00	SURCHARGED
13	Pipe - (24)	Pipe	SD-6	SD-5	373.27	5.66	4.25	0.3800	18.000	0.0130	8.44	6.46	1.31	5.05	1.35	0.90	0.00	> CAPACITY
14	Pipe - (26)	Pipe	SD-5	NODE-12	187.40	4.25	1.46	1.4900	18.000	0.0130	10.74	12.82	0.84	6.62	1.30	0.89	0.00	Calculated
15	Pipe - (27)	Pipe	NODE-12	Out-1Pipe - (27)	224.45	1.46	-1.70	1.4100	18.000	0.0130	11.83	12.46	0.95	7.46	1.30	0.88	0.00	Calculated
16	Pipe - (3)	Pipe	SD-20	SD-10	168.77	6.78	6.40	0.2300	12.000	0.0130	2.25	1.69	1.33	2.87	1.00	1.00	50.00	SURCHARGED
17	Pipe - (5)	Pipe	SD-10	NODE-1	48.34	6.40	6.35	0.1100	15.000	0.0130	2.33	2.89	0.81	1.90	1.25	1.00	47.00	SURCHARGED
18	Pipe - (6)	Pipe	NODE-1	NODE-3	24.64	6.35	6.32	0.1100	15.000	0.0130	2.56	2.89	0.89	2.08	1.25	1.00	47.00	SURCHARGED
19	Pipe - (7)	Pipe	NODE-3	NODE-2	118.07	6.32	6.20	0.1100	15.000	0.0130	2.91	2.89	1.01	2.37	1.25	1.00	46.00	SURCHARGED
20	Pipe - (9)	Pipe	NODE-2	NODE-4	66.84	6.20	6.13	0.1100	15.000	0.0130	3.36	2.89	1.16	2.73	1.25	1.00	45.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	NODE-1	6.35	10.75	4.41	6.35	0.00	10.75	0.00	0.00	0.00
2	NODE-12	1.46	10.78	9.32	1.46	0.00	10.78	0.00	0.00	0.00
3	NODE-13	5.88	12.19	6.31	5.88	0.00	12.19	0.00	0.00	0.00
4	NODE-14	6.39	12.73	6.34	6.39	0.00	12.73	0.00	0.00	0.00
5	NODE-2	6.20	10.21	4.01	6.20	0.00	10.21	0.00	0.00	0.00
6	NODE-3	6.32	10.38	4.06	6.32	0.00	10.38	0.00	0.00	0.00
7	NODE-4	6.13	10.50	4.38	6.13	0.00	10.50	0.00	0.00	0.00
8	NODE-5	6.05	12.21	6.16	6.05	0.00	12.21	0.00	0.00	0.00
9	NODE-6	7.59	11.75	4.16	7.59	0.00	11.75	0.00	0.00	0.00
10	NODE-7	7.75	12.07	4.32	7.75	0.00	12.07	0.00	0.00	0.00
11	NODE-8	5.75	11.21	5.46	5.75	0.00	11.21	0.00	0.00	0.00
12	SD-10	6.40	10.34	3.94	6.40	0.00	10.34	0.00	0.00	0.00
13	SD-11	7.00	12.59	5.59	7.00	0.00	12.59	0.00	0.00	0.00
14	SD-12	8.94	11.77	2.83	8.94	0.00	10.48	-1.29	0.00	0.00
15	SD-18	8.58	11.25	2.67	8.58	0.00	10.10	-1.15	0.00	0.00
16	SD-20	6.78	9.87	3.09	6.78	0.00	9.87	0.00	0.00	0.00
17	SD-22	6.12	9.69	3.57	6.12	0.00	9.69	0.00	0.00	0.00
18	SD-5	4.25	11.08	6.83	4.25	0.00	11.08	0.00	0.00	0.00
19	SD-6	5.66	10.48	4.82	5.66	0.00	10.48	0.00	0.00	0.00
20	SD-9	6.10	11.96	5.86	6.10	0.00	11.96	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 NODE-1	2.57	0.33	9.66	3.31	0.00	1.09	6.94	0.59	0 12:00	0 00:00	0.00	0.00
2 NODE-12	11.95	1.23	3.07	1.61	0.00	7.72	1.87	0.41	0 12:02	0 00:00	0.00	0.00
3 NODE-13	5.08	0.45	8.73	2.85	0.00	3.46	6.46	0.58	0 12:00	0 00:00	0.00	0.00
4 NODE-14	1.48	0.17	9.30	2.91	0.00	3.43	6.74	0.35	0 12:00	0 00:00	0.00	0.00
5 NODE-2	3.35	0.62	9.47	3.27	0.00	0.74	6.81	0.61	0 12:00	0 00:00	0.00	0.00
6 NODE-3	2.90	0.48	9.62	3.30	0.00	0.76	6.90	0.58	0 12:00	0 00:00	0.00	0.00
7 NODE-4	3.45	0.16	9.29	3.16	0.00	1.21	6.73	0.60	0 12:00	0 00:00	0.00	0.00
8 NODE-5	4.66	0.40	9.03	2.98	0.00	3.19	6.61	0.56	0 12:00	0 00:00	0.00	0.00
9 NODE-6	0.94	0.27	9.54	1.95	0.00	2.22	7.74	0.15	0 12:01	0 00:00	0.00	0.00
10 NODE-7	0.69	0.06	9.55	1.80	0.00	2.52	7.89	0.14	0 12:01	0 00:00	0.00	0.00
11 NODE-8	5.26	0.19	8.44	2.69	0.00	2.77	6.32	0.57	0 12:00	0 00:00	0.00	0.00
12 SD-10	2.34	0.12	9.69	3.29	0.00	0.65	6.98	0.58	0 12:00	0 00:00	0.00	0.00
13 SD-11	1.32	0.41	9.47	2.47	0.00	3.11	7.21	0.21	0 12:01	0 00:00	0.00	0.00
14 SD-12	0.60	0.60	9.60	0.66	0.00	2.18	9.04	0.10	0 12:01	0 00:00	0.00	0.00
15 SD-18	1.61	1.61	11.25	2.67	0.00	0.00	8.78	0.20	0 11:42	0 11:42	0.00	0.00
16 SD-20	2.42	0.76	9.87	3.09	0.00	0.00	7.23	0.45	0 11:42	0 12:00	0.05	11.00
17 SD-22	2.01	1.26	9.69	3.57	0.00	0.00	7.24	1.12	0 11:42	0 12:00	0.71	31.00
18 SD-5	10.74	2.31	5.45	1.20	0.00	5.64	4.63	0.38	0 12:00	0 00:00	0.00	0.00
19 SD-6	8.44	3.27	8.17	2.51	0.00	2.31	6.19	0.53	0 12:00	0 00:00	0.00	0.00
20 SD-9	4.28	0.00	9.17	3.07	0.00	2.80	6.69	0.59	0 12:00	0 00:00	0.00	0.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Pipe Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow Gate	No. of Barrels
1	Pipe - (1)	371.25	6.12	0.00	6.78	0.00	-0.66	-0.1800	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
2	Pipe - (10)	26.14	6.13	0.00	6.10	0.00	0.03	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
3	Pipe - (11)	138.39	8.94	0.00	7.75	0.00	1.19	0.8600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
4	Pipe - (12)	18.72	7.75	0.00	7.59	0.00	0.16	0.8600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
5	Pipe - (13)	68.14	7.59	0.00	7.00	0.00	0.59	0.8600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
6	Pipe - (14)	103.63	7.00	0.00	6.39	0.00	0.61	0.5900	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
7	Pipe - (15)	50.20	6.39	0.00	6.10	0.00	0.29	0.5800	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
8	Pipe - (16)	31.53	6.10	0.00	6.05	0.00	0.05	0.1700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
9	Pipe - (17)	100.25	6.05	0.00	5.88	0.00	0.17	0.1700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
10	Pipe - (18)	75.32	5.88	0.00	5.75	0.00	0.13	0.1700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
11	Pipe - (19)	55.18	5.75	0.00	5.66	0.00	0.09	0.1600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
12	Pipe - (2)	222.91	8.58	0.00	6.78	0.00	1.80	0.8100	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
13	Pipe - (24)	373.27	5.66	0.00	4.25	0.00	1.41	0.3800	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
14	Pipe - (26)	187.40	4.25	0.00	1.46	0.00	2.79	1.4900	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
15	Pipe - (27)	224.45	1.46	0.00	-1.70	0.00	3.16	1.4100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
16	Pipe - (3)	168.77	6.78	0.00	6.40	0.00	0.38	0.2300	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
17	Pipe - (5)	48.34	6.40	0.00	6.35	0.00	0.05	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
18	Pipe - (6)	24.64	6.35	0.00	6.32	0.00	0.03	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
19	Pipe - (7)	118.07	6.32	0.00	6.20	0.00	0.13	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
20	Pipe - (9)	66.84	6.20	0.00	6.13	0.00	0.07	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
1 Pipe - (1)	0.87	0 11:42	1.59	0.54	1.10	5.62	1.00	1.00	50.00	0.06	SURCHARGED
2 Pipe - (10)	3.45	0 11:43	2.89	1.20	2.82	0.15	1.25	1.00	44.00	0.33	SURCHARGED
3 Pipe - (11)	0.63	0 12:02	3.30	0.19	2.41	0.96	0.81	0.83	0.00	0.97	Calculated
4 Pipe - (12)	0.70	0 12:09	3.29	0.21	2.24	0.14	1.00	1.00	22.00	0.87	SURCHARGED
5 Pipe - (13)	0.95	0 12:03	3.30	0.29	2.40	0.47	1.00	1.00	24.00	0.86	SURCHARGED
6 Pipe - (14)	1.33	0 12:03	2.73	0.49	1.74	0.99	1.00	1.00	33.00	0.60	SURCHARGED
7 Pipe - (15)	1.49	0 12:03	2.71	0.55	1.89	0.44	1.00	1.00	43.00	0.21	SURCHARGED
8 Pipe - (16)	4.32	0 12:04	4.70	0.92	2.44	0.22	1.50	1.00	36.00	0.41	SURCHARGED
9 Pipe - (17)	4.69	0 12:04	4.70	1.00	2.65	0.63	1.50	1.00	35.00	0.44	SURCHARGED
10 Pipe - (18)	5.09	0 12:03	4.70	1.08	2.88	0.44	1.50	1.00	33.00	0.45	SURCHARGED
11 Pipe - (19)	5.28	0 12:03	4.70	1.12	2.99	0.31	1.50	1.00	30.00	0.48	SURCHARGED
12 Pipe - (2)	1.61	0 12:00	3.20	0.50	2.63	1.41	1.00	1.00	32.00	0.45	SURCHARGED
13 Pipe - (24)	8.44	0 12:00	6.46	1.31	5.05	1.23	1.35	0.90	0.00	0.97	> CAPACITY
14 Pipe - (26)	10.74	0 12:00	12.82	0.84	6.62	0.47	1.30	0.89	0.00	1.48	Calculated
15 Pipe - (27)	11.83	0 12:00	12.46	0.95	7.46	0.50	1.30	0.88	0.00	1.56	Calculated
16 Pipe - (3)	2.25	0 11:43	1.69	1.33	2.87	0.98	1.00	1.00	50.00	0.40	SURCHARGED
17 Pipe - (5)	2.33	0 11:43	2.89	0.81	1.90	0.42	1.25	1.00	47.00	0.27	SURCHARGED
18 Pipe - (6)	2.56	0 11:43	2.89	0.89	2.08	0.20	1.25	1.00	47.00	0.29	SURCHARGED
19 Pipe - (7)	2.91	0 11:43	2.89	1.01	2.37	0.83	1.25	1.00	46.00	0.30	SURCHARGED
20 Pipe - (9)	3.36	0 11:43	2.89	1.16	2.73	0.41	1.25	1.00	45.00	0.31	SURCHARGED

K Street 2-year Flow SWMM Modeling Report

Project Description

File Name K ST - SWMM ANALYSIS MODEL - EXIST 2 YEAR FLOW.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Dec 15, 1982 07:30:00
End Analysis On Dec 16, 1982 07:30:00
Start Reporting On Dec 15, 1982 07:30:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	23
<i>Junctions</i>	22
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	22
<i>Channels</i>	0
<i>Pipes</i>	22
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	OS-14	Junction	-0.64	2.60	-0.64	2.60	0.00	18.55	2.44	0.00	0.16	0 00:00	0.00	0.00
2	OS-16	Junction	-0.53	2.71	-0.53	2.71	0.00	17.15	2.63	0.00	0.08	0 00:00	0.00	0.00
3	OS-2	Junction	-2.12	1.12	-2.12	1.12	0.00	22.51	-1.00	0.00	2.12	0 00:00	0.00	0.00
4	OS-24	Junction	4.00	5.08	4.00	5.08	0.00	2.25	5.08	0.00	0.00	0 12:15	1.59	171.00
5	OS-25	Junction	4.76	5.84	4.76	5.84	0.00	2.11	5.84	0.00	0.00	0 12:15	0.10	29.00
6	OS-26	Junction	-0.40	2.84	-0.40	2.84	0.00	17.04	2.77	0.00	0.07	0 00:00	0.00	0.00
7	OS-3	Junction	-1.04	2.20	-1.04	2.20	0.00	22.53	0.48	0.00	1.72	0 00:00	0.00	0.00
8	OS-31	Junction	3.03	4.11	3.03	4.11	0.00	5.39	4.11	0.00	0.00	0 12:15	10.05	360.00
9	OS-38	Junction	4.94	6.02	4.94	6.02	0.00	3.48	6.02	0.00	0.00	0 12:15	3.00	160.00
10	OS-4	Junction	-0.98	2.26	-0.98	2.26	0.00	22.59	1.73	0.00	0.53	0 00:00	0.00	0.00
11	OS-41	Junction	5.26	6.34	5.26	6.34	0.00	2.81	6.34	0.00	0.00	0 12:15	0.02	9.00
12	OS-44	Junction	2.92	4.00	2.92	4.00	0.00	3.28	4.00	0.00	0.00	0 12:15	2.87	170.00
13	OS-4A	Junction	3.88	4.96	3.88	4.96	0.00	1.83	4.96	0.00	0.00	0 10:52	0.01	14.00
14	OS-5	Junction	-0.76	2.48	-0.76	2.48	0.00	20.11	2.15	0.00	0.33	0 00:00	0.00	0.00
15	OS-70	Junction	-0.35	2.89	-0.35	2.89	0.00	17.92	2.89	0.00	0.00	0 12:15	5.22	101.00
16	OS-75	Junction	-0.25	2.99	-0.25	2.99	0.00	16.48	2.85	0.00	0.14	0 00:00	0.00	0.00
17	OS-76	Junction	0.27	2.99	0.27	2.99	0.00	23.93	2.99	0.00	0.00	0 12:15	25.04	164.00
18	OS-81	Junction	2.02	4.74	2.02	4.74	0.00	14.64	3.55	0.00	1.19	0 00:00	0.00	0.00
19	OS-83	Junction	1.08	3.80	1.08	3.80	0.00	11.84	3.80	0.00	0.00	0 12:14	0.75	23.00
20	OS-86	Junction	1.70	4.42	1.70	4.42	0.00	3.50	3.86	0.00	0.55	0 00:00	0.00	0.00
21	OS-89	Junction	2.15	4.31	2.15	4.31	0.00	1.05	3.91	0.00	0.41	0 00:00	0.00	0.00
22	OS-92	Junction	3.86	6.02	3.86	6.02	0.00	0.21	4.00	0.00	2.02	0 00:00	0.00	0.00
23	Out-1Pipe - (118)	Outfall	-4.55					22.51	-3.69					

Link Summary

SN Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported (min)	Surcharged Condition
1	Pipe - (100)	Pipe	OS-31 OS-44	249.54	3.03	2.92	0.0400	12.000	0.0130	1.42	1.59	0.89	1.95	1.00	1.00	179.00	SURCHARGED
2	Pipe - (101)	Pipe	OS-44 OS-83	398.64	2.92	1.08	0.4600	12.000	0.0130	1.74	2.42	0.72	2.31	1.00	1.00	179.00	SURCHARGED
3	Pipe - (103)	Pipe	OS-92 OS-89	227.53	3.86	2.15	0.7500	24.000	0.0130	0.21	19.61	0.01	0.48	0.91	0.47	0.00	Calculated
4	Pipe - (104)	Pipe	OS-89 OS-86	377.37	2.15	1.70	0.1200	24.000	0.0130	1.46	10.12	0.14	0.64	1.84	0.94	0.00	Calculated
5	Pipe - (106)	Pipe	OS-86 OS-83	379.32	1.70	1.08	0.1600	30.000	0.0130	3.65	18.34	0.20	0.77	2.31	0.93	0.00	Calculated
6	Pipe - (107)	Pipe	OS-83 OS-81	381.18	1.08	2.02	-0.2500	30.000	0.0130	8.67	20.37	0.43	2.08	2.01	0.81	0.00	Calculated
7	Pipe - (108)	Pipe	OS-81 OS-76	392.28	2.02	0.27	0.4500	30.000	0.0130	14.54	27.40	0.53	3.43	2.01	0.81	0.00	Calculated
8	Pipe - (109)	Pipe	OS-76 OS-70	370.54	0.27	-0.35	0.1700	30.000	0.0130	10.20	18.34	0.56	2.08	2.50	1.00	172.00	SURCHARGED
9	Pipe - (110)	Pipe	OS-70 OS-75	291.71	-0.35	-0.25	-0.0300	36.000	0.0130	14.71	29.83	0.49	2.11	3.00	1.00	102.00	SURCHARGED
10	Pipe - (111)	Pipe	OS-75 OS-26	193.31	-0.25	-0.40	0.0800	36.000	0.0130	15.76	29.83	0.53	2.28	3.00	1.00	102.00	SURCHARGED
11	Pipe - (112)	Pipe	OS-26 OS-16	204.76	-0.40	-0.53	0.0600	36.000	0.0130	16.58	29.83	0.56	2.40	3.00	1.00	41.00	SURCHARGED
12	Pipe - (113)	Pipe	OS-16 OS-14	264.34	-0.53	-0.64	0.0400	36.000	0.0130	16.72	29.83	0.56	2.45	3.00	1.00	15.00	SURCHARGED
13	Pipe - (114)	Pipe	OS-14 OS-5	254.98	-0.64	-0.76	0.0500	36.000	0.0130	18.47	29.83	0.62	2.72	2.95	0.99	0.00	Calculated
14	Pipe - (115)	Pipe	OS-5 OS-4	361.25	-0.76	-0.98	0.0600	36.000	0.0130	20.03	29.83	0.67	2.91	2.81	0.94	0.00	Calculated
15	Pipe - (116)	Pipe	OS-4 OS-3	410.47	-0.98	-1.04	0.0100	36.000	0.0130	22.53	29.83	0.76	4.23	2.11	0.71	0.00	Calculated
16	Pipe - (117)	Pipe	OS-3 OS-2	138.08	-1.04	-2.12	0.7800	36.000	0.0130	22.51	58.99	0.38	7.51	1.31	0.44	0.00	Calculated
17	Pipe - (118)	Pipe	OS-2 Out-1Pipe - (118)	67.98	-2.12	-4.55	3.5700	36.000	0.0130	22.51	126.10	0.18	11.06	0.98	0.33	0.00	Calculated
18	Pipe - (95)	Pipe	OS-38 OS-25	312.89	4.94	4.76	0.0600	12.000	0.0130	1.34	1.59	0.84	1.79	1.00	1.00	101.00	SURCHARGED
19	Pipe - (96)	Pipe	OS-25 OS-24	305.40	4.76	4.00	0.2500	12.000	0.0130	1.69	1.78	0.95	2.15	1.00	1.00	101.00	SURCHARGED
20	Pipe - (97)	Pipe	OS-41 OS-38	31.57	5.26	4.94	1.0100	12.000	0.0130	2.53	3.59	0.70	3.25	1.00	1.00	19.00	SURCHARGED
21	Pipe - (98)	Pipe	OS-24 OS-4A	64.15	4.00	3.88	0.1900	12.000	0.0130	1.67	1.59	1.05	2.13	1.00	1.00	172.00	SURCHARGED
22	Pipe - (99)	Pipe	OS-4A OS-31	379.38	3.88	3.03	0.2200	12.000	0.0130	1.62	1.69	0.96	2.06	1.00	1.00	172.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	OS-14	-0.64	2.60	3.24	-0.64	0.00	2.60	0.00	0.00	0.00
2	OS-16	-0.53	2.71	3.24	-0.53	0.00	2.71	0.00	0.00	0.00
3	OS-2	-2.12	1.12	3.24	-2.12	0.00	1.12	0.00	0.00	0.00
4	OS-24	4.00	5.08	1.08	4.00	0.00	5.08	0.00	0.00	0.00
5	OS-25	4.76	5.84	1.08	4.76	0.00	5.84	0.00	0.00	0.00
6	OS-26	-0.40	2.84	3.24	-0.40	0.00	2.84	0.00	0.00	0.00
7	OS-3	-1.04	2.20	3.24	-1.04	0.00	2.20	0.00	0.00	0.00
8	OS-31	3.03	4.11	1.08	3.03	0.00	4.11	0.00	0.00	0.00
9	OS-38	4.94	6.02	1.08	4.94	0.00	6.02	0.00	0.00	0.00
10	OS-4	-0.98	2.26	3.24	-0.98	0.00	2.26	0.00	0.00	0.00
11	OS-41	5.26	6.34	1.08	5.26	0.00	6.34	0.00	0.00	0.00
12	OS-44	2.92	4.00	1.08	2.92	0.00	4.00	0.00	0.00	0.00
13	OS-4A	3.88	4.96	1.08	3.88	0.00	4.96	0.00	0.00	0.00
14	OS-5	-0.76	2.48	3.24	-0.76	0.00	2.48	0.00	0.00	0.00
15	OS-70	-0.35	2.89	3.24	-0.35	0.00	2.89	0.00	0.00	0.00
16	OS-75	-0.25	2.99	3.24	-0.25	0.00	2.99	0.00	0.00	0.00
17	OS-76	0.27	2.99	2.72	0.27	0.00	2.99	0.00	0.00	0.00
18	OS-81	2.02	4.74	2.72	2.02	0.00	4.74	0.00	0.00	0.00
19	OS-83	1.08	3.80	2.72	1.08	0.00	3.80	0.00	0.00	0.00
20	OS-86	1.70	4.42	2.72	1.70	0.00	4.42	0.00	0.00	0.00
21	OS-89	2.15	4.31	2.16	2.15	0.00	4.31	0.00	0.00	0.00
22	OS-92	3.86	6.02	2.16	3.86	0.00	6.02	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 OS-14	18.55	3.79	2.44	3.08	0.00	0.16	0.99	1.63	0 12:15	0 00:00	0.00	0.00
2 OS-16	17.15	1.20	2.63	3.16	0.00	0.08	1.13	1.66	0 12:15	0 00:00	0.00	0.00
3 OS-2	22.51	0.00	-1.00	1.12	0.00	2.12	-1.53	0.59	0 12:16	0 00:00	0.00	0.00
4 OS-24	2.25	0.55	5.08	1.08	0.00	0.00	4.55	0.55	0 10:52	0 12:15	1.59	171.00
5 OS-25	2.11	1.30	5.84	1.08	0.00	0.00	5.23	0.47	0 12:07	0 12:15	0.10	29.00
6 OS-26	17.04	2.66	2.77	3.17	0.00	0.07	1.24	1.64	0 12:15	0 00:00	0.00	0.00
7 OS-3	22.53	0.00	0.48	1.52	0.00	1.72	-0.21	0.83	0 12:16	0 00:00	0.00	0.00
8 OS-31	5.39	3.77	4.11	1.08	0.00	0.00	3.82	0.79	0 07:14	0 12:15	10.05	360.00
9 OS-38	3.48	0.95	6.02	1.08	0.00	0.00	5.50	0.56	0 10:52	0 12:15	3.00	160.00
10 OS-4	22.59	2.58	1.73	2.71	0.00	0.53	0.59	1.57	0 12:16	0 00:00	0.00	0.00
11 OS-41	2.81	2.81	6.34	1.08	0.00	0.00	5.58	0.32	0 12:12	0 12:15	0.02	9.00
12 OS-44	3.28	2.57	4.00	1.08	0.00	0.00	3.52	0.60	0 10:49	0 12:15	2.87	170.00
13 OS-4A	1.83	0.42	4.96	1.08	0.00	0.00	4.40	0.52	0 10:52	0 10:52	0.01	14.00
14 OS-5	20.11	1.64	2.15	2.91	0.00	0.33	0.82	1.58	0 12:15	0 00:00	0.00	0.00
15 OS-70	17.92	12.14	2.89	3.24	0.00	0.00	1.46	1.81	0 10:57	0 12:15	5.22	101.00
16 OS-75	16.48	3.74	2.85	3.10	0.00	0.14	1.35	1.60	0 12:15	0 00:00	0.00	0.00
17 OS-76	23.93	9.46	2.99	2.72	0.00	0.00	1.59	1.32	0 10:53	0 12:15	25.04	164.00
18 OS-81	14.64	6.63	3.55	1.53	0.00	1.19	2.67	0.65	0 12:15	0 00:00	0.00	0.00
19 OS-83	11.84	7.63	3.80	2.72	0.00	0.00	2.81	1.73	0 12:10	0 12:14	0.75	23.00
20 OS-86	3.50	2.18	3.86	2.16	0.00	0.55	2.82	1.12	0 12:11	0 00:00	0.00	0.00
21 OS-89	1.05	0.84	3.91	1.76	0.00	0.41	2.82	0.67	0 12:12	0 00:00	0.00	0.00
22 OS-92	0.21	0.21	4.00	0.14	0.00	2.02	3.92	0.06	0 12:16	0 00:00	0.00	0.00

Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate
1 Pipe - (100)	249.54	3.03	0.00	2.92	0.00	0.11	0.0400	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
2 Pipe - (101)	398.64	2.92	0.00	1.08	0.00	1.84	0.4600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
3 Pipe - (103)	227.53	3.86	0.00	2.15	0.00	1.71	0.7500	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No
4 Pipe - (104)	377.37	2.15	0.00	1.70	0.00	0.45	0.1200	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No
5 Pipe - (106)	379.32	1.70	0.00	1.08	0.00	0.62	0.1600	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
6 Pipe - (107)	381.18	1.08	0.00	2.02	0.00	-0.94	-0.2500	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
7 Pipe - (108)	392.28	2.02	0.00	0.27	0.00	1.75	0.4500	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
8 Pipe - (109)	370.54	0.27	0.00	-0.35	0.00	0.62	0.1700	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
9 Pipe - (110)	291.71	-0.35	0.00	-0.25	0.00	-0.10	-0.0300	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
10 Pipe - (111)	193.31	-0.25	0.00	-0.40	0.00	0.15	0.0800	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
11 Pipe - (112)	204.76	-0.40	0.00	-0.53	0.00	0.13	0.0600	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
12 Pipe - (113)	264.34	-0.53	0.00	-0.64	0.00	0.11	0.0400	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
13 Pipe - (114)	254.98	-0.64	0.00	-0.76	0.00	0.12	0.0500	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
14 Pipe - (115)	361.25	-0.76	0.00	-0.98	0.00	0.22	0.0600	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
15 Pipe - (116)	410.47	-0.98	0.00	-1.04	0.00	0.06	0.0100	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
16 Pipe - (117)	138.08	-1.04	0.00	-2.12	0.00	1.08	0.7800	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
17 Pipe - (118)	67.98	-2.12	0.00	-4.55	0.00	2.43	3.5700	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
18 Pipe - (95)	312.89	4.94	0.00	4.76	0.00	0.18	0.0600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
19 Pipe - (96)	305.40	4.76	0.00	4.00	0.00	0.76	0.2500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
20 Pipe - (97)	31.57	5.26	0.00	4.94	0.00	0.32	1.0100	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
21 Pipe - (98)	64.15	4.00	0.00	3.88	0.00	0.12	0.1900	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
22 Pipe - (99)	379.38	3.88	0.00	3.03	0.00	0.85	0.2200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No

Pipe Results

SN Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1 Pipe - (100)	1.42	0 08:18	1.59	0.89	1.95	2.13	1.00	1.00	179.00	0.30	SURCHARGED
2 Pipe - (101)	1.74	0 08:23	2.42	0.72	2.31	2.88	1.00	1.00	179.00	0.22	SURCHARGED
3 Pipe - (103)	0.21	0 12:16	19.61	0.01	0.48	7.90	0.91	0.47	0.00	0.03	Calculated
4 Pipe - (104)	1.46	0 12:13	10.12	0.14	0.64	9.83	1.84	0.94	0.00	0.03	Calculated
5 Pipe - (106)	3.65	0 12:14	18.34	0.20	0.77	8.21	2.31	0.93	0.00	0.03	Calculated
6 Pipe - (107)	8.67	0 12:33	20.37	0.43	2.08	3.05	2.01	0.81	0.00	0.19	Calculated
7 Pipe - (108)	14.54	0 12:15	27.40	0.53	3.43	1.91	2.01	0.81	0.00	0.49	Calculated
8 Pipe - (109)	10.20	0 10:53	18.34	0.56	2.08	2.97	2.50	1.00	172.00	0.20	SURCHARGED
9 Pipe - (110)	14.71	0 10:54	29.83	0.49	2.11	2.30	3.00	1.00	102.00	0.19	SURCHARGED
10 Pipe - (111)	15.76	0 10:54	29.83	0.53	2.28	1.41	3.00	1.00	102.00	0.24	SURCHARGED
11 Pipe - (112)	16.58	0 10:55	29.83	0.56	2.40	1.42	3.00	1.00	41.00	0.23	SURCHARGED
12 Pipe - (113)	16.72	0 10:56	29.83	0.56	2.45	1.80	3.00	1.00	15.00	0.24	SURCHARGED
13 Pipe - (114)	18.47	0 12:15	29.83	0.62	2.72	1.56	2.95	0.99	0.00	0.28	Calculated
14 Pipe - (115)	20.03	0 12:15	29.83	0.67	2.91	2.07	2.81	0.94	0.00	0.29	Calculated
15 Pipe - (116)	22.53	0 12:16	29.83	0.76	4.23	1.62	2.11	0.71	0.00	0.52	Calculated
16 Pipe - (117)	22.51	0 12:16	58.99	0.38	7.51	0.31	1.31	0.44	0.00	1.49	Calculated
17 Pipe - (118)	22.51	0 12:16	126.10	0.18	11.06	0.10	0.98	0.33	0.00	2.47	Calculated
18 Pipe - (95)	1.34	0 10:52	1.59	0.84	1.79	2.91	1.00	1.00	101.00	0.30	SURCHARGED
19 Pipe - (96)	1.69	0 12:22	1.78	0.95	2.15	2.37	1.00	1.00	101.00	0.44	SURCHARGED
20 Pipe - (97)	2.53	0 12:15	3.59	0.70	3.25	0.16	1.00	1.00	19.00	0.37	SURCHARGED
21 Pipe - (98)	1.67	0 10:52	1.59	1.05	2.13	0.50	1.00	1.00	172.00	0.42	SURCHARGED
22 Pipe - (99)	1.62	0 12:22	1.69	0.96	2.06	3.07	1.00	1.00	172.00	0.25	SURCHARGED

Adams Street 2-year Flow SWMM Modeling Report (Excluding Outside)

Project Description

File Name ADAMS STREET PUMP STATION BASIN - EXCLUDING THE PORTIONS OUTSIDE LEVEE_EX 2 YEAR F

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Nov 01, 2004 14:15:00
End Analysis On Nov 02, 2004 14:15:00
Start Reporting On Nov 01, 2004 14:15:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	95
<i>Junctions</i>	94
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	93
<i>Channels</i>	0
<i>Pipes</i>	93
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

LOW.SPF

Node Summary

SN Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Ponded Area	Peak Inflow	Max HGL Elevation Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
		(ft)	(ft)	(ft)	(ft)	(ft ²)	(cfs)	(ft)	(ft)	(ft)	(days hh:mm)	(ac-in)	(min)
88 SD-79A	Junction	7.02	14.39	7.02	14.39	0.00	7.10	13.00	0.00	1.39	0 00:00	0.00	0.00
89 SD-8	Junction	0.92	9.79	0.92	9.79	0.00	2.61	4.48	0.00	5.31	0 00:00	0.00	0.00
90 SD-80	Junction	9.46	13.86	9.46	13.86	0.00	1.78	12.53	0.00	1.33	0 00:00	0.00	0.00
91 SD-80A	Junction	8.56	13.76	8.56	13.76	0.00	9.16	13.76	0.00	0.00	0 11:30	1.70	43.00
92 SD-81	Junction	3.95	10.41	3.95	10.41	0.00	0.95	10.41	0.00	0.00	0 10:58	0.00	0.00
93 SD-9	Junction	0.18	10.03	0.18	10.03	0.00	2.88	2.48	0.00	7.55	0 00:00	0.00	0.00
94 SD-91	Junction	4.00	11.26	4.00	11.26	0.00	0.55	4.36	0.00	6.91	0 00:00	0.00	0.00
95 DUMMY-MH	Outfall	-6.00					40.98	-3.85					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Reported	Surcharged Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
57	Pipe - (61)	Pipe	SD-78	SD-77	28.68	0.92	-0.24	4.0400	24.000	0.0130	13.77	45.50	0.30	4.38	2.00	1.00	38.00	SURCHARGED
58	Pipe - (62)	Pipe	SD-77	SD-76	144.33	-0.24	-0.48	0.1700	27.000	0.0130	24.54	13.85	1.77	6.17	2.25	1.00	18.00	SURCHARGED
59	Pipe - (63)	Pipe	SD-76	NODE-22	223.98	-0.48	-1.62	0.5100	30.000	0.0130	26.41	29.26	0.90	5.56	2.32	0.93	0.00	Calculated
60	Pipe - (64)	Pipe	SD-74	PS	77.02	-2.32	-5.14	3.6600	36.000	0.0130	28.76	127.62	0.23	5.68	2.18	0.73	0.00	Calculated
61	Pipe - (65)	Pipe	SD-73	PS	59.39	-5.14	-5.14	0.0000	36.000	0.0130	13.54	29.83	0.45	1.92	3.00	1.00	40.00	SURCHARGED
62	Pipe - (66)	Pipe	SD-10	NODE-21	73.71	1.28	0.97	0.4200	21.000	0.0130	8.92	10.29	0.87	3.71	1.75	1.00	46.00	SURCHARGED
63	Pipe - (66) (1)	Pipe	NODE-21	SD-77	286.95	0.97	-0.24	0.4200	21.000	0.0130	9.23	10.29	0.90	3.84	1.75	1.00	48.00	SURCHARGED
64	Pipe - (67)	Pipe	NODE-5	SD-10	179.84	1.86	1.28	0.3200	21.000	0.0130	8.68	9.00	0.96	3.61	1.75	1.00	42.00	SURCHARGED
65	Pipe - (68)	Pipe	SD-78A	SD-76B	173.98	6.52	5.48	0.6000	18.000	0.0130	7.74	8.12	0.95	4.38	1.50	1.00	55.00	SURCHARGED
66	Pipe - (69)	Pipe	NODE-22	SD-74	138.16	-1.62	-2.32	0.5100	30.000	0.0130	28.81	29.20	0.99	8.60	1.79	0.72	0.00	Calculated
67	Pipe - (71)	Pipe	SD-72	SD-73	255.30	-4.83	-5.14	0.1200	33.000	0.0130	13.53	23.65	0.57	2.28	2.75	1.00	45.00	SURCHARGED
68	Pipe - (73)	Pipe	NODE-15B	SD-8	38.10	1.03	0.92	0.2900	12.000	0.0130	2.61	1.91	1.36	3.32	1.00	1.00	51.00	SURCHARGED
69	Pipe - (74)	Pipe	NODE-15A	NODE-15B	226.88	1.71	1.03	0.3000	12.000	0.0130	2.42	1.95	1.24	3.09	1.00	1.00	45.00	SURCHARGED
70	Pipe - (75)	Pipe	NODE-13	NODE-14	41.97	2.04	1.91	0.3100	12.000	0.0130	1.73	1.98	0.87	2.20	1.00	1.00	43.00	SURCHARGED
71	Pipe - (76)	Pipe	NODE-14	NODE-15A	67.54	1.91	1.71	0.3000	12.000	0.0130	2.23	1.94	1.15	2.85	1.00	1.00	44.00	SURCHARGED
72	Pipe - (77)	Pipe	NODE-11	NODE-12	41.35	2.77	2.65	0.2900	12.000	0.0130	1.31	1.92	0.69	2.11	1.00	1.00	33.00	SURCHARGED
73	Pipe - (78)	Pipe	NODE-12	NODE-13	204.16	2.65	2.04	0.3000	12.000	0.0130	1.54	1.95	0.79	2.00	1.00	1.00	34.00	SURCHARGED
74	Pipe - (79)	Pipe	SD-8	NODE-16A	108.51	0.92	0.66	0.2400	12.000	0.0130	2.61	1.74	1.50	3.33	1.00	1.00	48.00	SURCHARGED
75	Pipe - (80)	Pipe	NODE-16A	NODE-16B	71.40	0.66	0.49	0.2400	12.000	0.0130	2.73	1.74	1.57	3.48	1.00	1.00	37.00	SURCHARGED
76	Pipe - (81)	Pipe	NODE-16B	SD-9	127.30	0.49	0.18	0.2400	12.000	0.0130	2.85	1.76	1.62	3.64	1.00	1.00	15.00	SURCHARGED
77	Pipe - (82)	Pipe	SD-9	SD-60	279.82	0.18	-0.80	0.3500	15.000	0.0130	2.88	3.82	0.75	3.24	1.25	1.00	10.00	SURCHARGED
78	Pipe - (83)	Pipe	SD-60	NODE 25	109.17	-0.80	-1.70	0.8200	15.000	0.0130	3.82	5.87	0.65	4.30	1.25	1.00	22.00	SURCHARGED
79	Pipe - (84)	Pipe	NODE 25	NODE-24	245.49	-1.70	-3.71	0.8200	15.000	0.0130	4.11	5.85	0.70	3.41	1.25	1.00	33.00	SURCHARGED
80	Pipe - (85)	Pipe	NODE-24	SD-70	48.58	-3.71	-4.12	0.8400	15.000	0.0130	4.48	5.93	0.75	3.65	1.25	1.00	63.00	SURCHARGED
81	Pipe - (86)	Pipe	SD-70	NODE-23	51.28	-4.12	-4.22	0.1900	33.000	0.0130	13.50	23.65	0.57	2.72	2.75	1.00	31.00	SURCHARGED
82	Pipe - (87)	Pipe	NODE-23	SD-72	316.28	-4.22	-4.83	0.1900	33.000	0.0130	13.53	23.65	0.57	2.28	2.75	1.00	32.00	SURCHARGED
83	Pipe - (88)	Pipe	CBSD-22	NODE-6	239.33	5.74	4.26	0.6200	15.000	0.0130	2.40	5.08	0.47	3.46	0.69	0.55	0.00	Calculated
84	Pipe - (89)	Pipe	NODE-6	SD-15	79.46	4.26	3.76	0.6300	15.000	0.0130	2.80	5.12	0.55	3.32	0.81	0.65	0.00	Calculated
85	Pipe - (90)	Pipe	SD-15	NODE-7	41.00	3.76	3.52	0.5900	15.000	0.0130	2.80	4.94	0.57	3.34	0.81	0.65	0.00	Calculated
86	Pipe - (91)	Pipe	NODE-7	NODE-8	232.34	3.52	2.18	0.5800	15.000	0.0130	3.37	4.91	0.69	3.59	0.89	0.72	0.00	Calculated
87	Pipe - (92)	Pipe	NODE-8	SD-7	31.53	2.18	2.00	0.5700	15.000	0.0130	3.58	4.88	0.73	3.67	0.93	0.74	0.00	Calculated
88	Pipe - (93)	Pipe	SD-7	NODE-9	77.64	2.00	1.57	0.5500	18.000	0.0130	3.58	7.82	0.46	3.82	0.78	0.52	0.00	Calculated
89	Pipe - (94)	Pipe	NODE-9	NODE-10	230.06	1.57	0.29	0.5600	18.000	0.0130	3.84	7.85	0.49	2.74	1.11	0.74	0.00	Calculated
90	Pipe - (95)	Pipe	NODE-10	SD-12	36.83	0.29	0.08	0.5600	18.000	0.0130	3.94	7.84	0.50	2.23	1.49	0.99	0.00	Calculated
91	Pipe - (96)	Pipe	SD-77A	SD-76A	77.73	5.96	5.25	0.9100	18.000	0.0130	0.75	10.04	0.07	0.66	1.50	1.00	49.00	SURCHARGED
92	Pipe - (97)	Pipe	SD-81	NODE-5B	146.12	3.95	3.15	0.5500	12.000	0.0130	0.77	2.64	0.29	1.11	1.00	1.00	46.00	SURCHARGED
93	Pipe - (98)	Pipe	NODE-5B	SD-75	63.81	3.15	2.80	0.5500	12.000	0.0130	0.77	2.64	0.29	0.98	1.00	1.00	73.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	CBSD-22	5.74	10.00	4.26	5.74	0.00	10.00	0.00	0.00	0.00
2	CBSD-29	48.55	50.00	1.45	48.55	0.00	50.00	0.00	0.00	0.00
3	NODE 25	-1.70	9.81	11.51	-1.70	0.00	9.81	0.00	0.00	0.00
4	NODE-1	38.31	48.68	10.37	38.31	0.00	48.68	0.00	0.00	0.00
5	NODE-10	0.29	9.84	9.55	0.29	0.00	9.84	0.00	0.00	0.00
6	NODE-11	2.77	10.15	7.38	2.77	0.00	10.15	0.00	0.00	0.00
7	NODE-12	2.65	9.62	6.97	2.65	0.00	9.62	0.00	0.00	0.00
8	NODE-13	2.04	8.84	6.80	2.04	0.00	8.84	0.00	0.00	0.00
9	NODE-14	1.91	9.08	7.17	1.91	0.00	9.08	0.00	0.00	0.00
10	NODE-15A	1.71	8.89	7.18	1.71	0.00	8.89	0.00	0.00	0.00
11	NODE-15B	1.03	9.35	8.32	1.03	0.00	9.35	0.00	0.00	0.00
12	NODE-16A	0.66	9.43	8.77	0.66	0.00	9.43	0.00	0.00	0.00
13	NODE-16B	0.49	9.59	9.10	0.49	0.00	9.59	0.00	0.00	0.00
14	NODE-17	2.48	10.06	7.58	2.48	0.00	10.06	0.00	0.00	0.00
15	NODE-18	6.65	11.32	4.67	6.65	0.00	11.32	0.00	0.00	0.00
16	NODE-18A	4.36	10.18	5.82	4.36	0.00	10.18	0.00	0.00	0.00
17	NODE-18B	1.89	9.97	8.08	1.89	0.00	9.97	0.00	0.00	0.00
18	NODE-19	4.97	9.90	4.93	4.97	0.00	9.90	0.00	0.00	0.00
19	NODE-19A	3.68	10.37	6.69	3.68	0.00	10.37	0.00	0.00	0.00
20	NODE-19B	1.56	9.83	8.27	1.56	0.00	9.83	0.00	0.00	0.00
21	NODE-2	31.09	35.59	4.50	31.09	0.00	35.59	0.00	0.00	0.00
22	NODE-20	2.49	10.63	8.14	2.49	0.00	10.63	0.00	0.00	0.00
23	NODE-20A	2.95	10.14	7.19	2.95	0.00	10.14	0.00	0.00	0.00
24	NODE-20B	1.07	9.83	8.76	1.07	0.00	9.83	0.00	0.00	0.00
25	NODE-21	0.97	9.77	8.80	0.97	0.00	9.77	0.00	0.00	0.00
26	NODE-22	-1.62	10.38	12.00	-1.62	0.00	10.38	0.00	0.00	0.00
27	NODE-23	-4.22	9.30	13.52	-4.22	0.00	9.30	0.00	0.00	0.00
28	NODE-24	-3.71	9.77	13.48	-3.71	0.00	9.77	0.00	0.00	0.00
29	NODE-26	0.39	10.11	9.73	0.39	0.00	10.11	0.00	0.00	0.00
30	NODE-27	0.14	10.05	9.91	0.14	0.00	10.05	0.00	0.00	0.00
31	NODE-28	-1.12	9.32	10.44	-1.12	0.00	9.32	0.00	0.00	0.00
32	NODE-29	-1.93	9.67	11.60	-1.93	0.00	9.67	0.00	0.00	0.00
33	NODE-3	2.82	9.76	6.94	2.82	0.00	9.76	0.00	0.00	0.00
34	NODE-30	-2.67	9.60	12.27	-2.67	0.00	9.60	0.00	0.00	0.00
35	NODE-31	-2.73	10.23	12.96	-2.73	0.00	10.23	0.00	0.00	0.00
36	NODE-32	-2.43	10.40	12.83	-2.43	0.00	10.40	0.00	0.00	0.00
37	NODE-33	-2.03	10.06	12.09	-2.03	0.00	10.06	0.00	0.00	0.00
38	NODE-34	-1.26	10.05	11.31	-1.26	0.00	10.05	0.00	0.00	0.00
39	NODE-35	-0.90	10.33	11.23	-0.90	0.00	10.33	0.00	0.00	0.00
40	NODE-36	-0.53	10.61	11.14	-0.53	0.00	10.61	0.00	0.00	0.00
41	NODE-37	-0.17	10.74	10.91	-0.17	0.00	10.74	0.00	0.00	0.00
42	NODE-38	0.40	11.28	10.88	0.40	0.00	11.28	0.00	0.00	0.00
43	NODE-39	0.89	11.70	10.81	0.89	0.00	11.70	0.00	0.00	0.00
44	NODE-4	2.22	9.84	7.62	2.22	0.00	9.84	0.00	0.00	0.00
45	NODE-40	1.70	11.81	10.11	1.70	0.00	11.81	0.00	0.00	0.00
46	NODE-5	1.86	10.79	8.93	1.86	0.00	10.79	0.00	0.00	0.00
47	NODE-5B	3.15	10.17	7.02	3.15	0.00	10.17	0.00	0.00	0.00
48	NODE-6	4.26	9.22	4.96	4.26	0.00	9.22	0.00	0.00	0.00
49	NODE-7	3.52	8.86	5.34	3.52	0.00	8.86	0.00	0.00	0.00
50	NODE-8	2.18	9.00	6.82	2.18	0.00	9.00	0.00	0.00	0.00
51	NODE-9	1.57	9.02	7.45	1.57	0.00	9.02	0.00	0.00	0.00
52	Out-1Pipe - (71)	-5.14	0.86	6.00	-5.14	0.00	0.86	0.00	0.00	0.00
53	PS	-5.14	11.64	16.78	-5.14	0.00	11.64	0.00	0.00	0.00
54	SD-10	1.28	10.14	8.86	1.28	0.00	10.14	0.00	0.00	0.00
55	SD-11	2.35	9.85	7.50	2.35	0.00	9.85	0.00	0.00	0.00
56	SD-12	0.08	10.68	10.60	0.08	0.00	10.68	0.00	0.00	0.00
57	SD-15	3.76	9.27	5.51	3.76	0.00	9.27	0.00	0.00	0.00
58	SD-17	4.08	9.88	5.80	4.08	0.00	9.88	0.00	0.00	0.00
59	SD-18	4.02	9.91	5.89	4.02	0.00	9.91	0.00	0.00	0.00
60	SD-26	4.65	10.68	6.03	4.65	0.00	10.68	0.00	0.00	0.00
61	SD-27	6.08	12.02	5.94	6.08	0.00	12.02	0.00	0.00	0.00
62	SD-28	7.98	12.84	4.86	7.98	0.00	12.84	0.00	0.00	0.00
63	SD-56	-0.72	10.13	10.85	-0.72	0.00	10.13	0.00	0.00	0.00
64	SD-57	0.45	9.84	9.39	0.45	0.00	9.84	0.00	0.00	0.00
65	SD-58	-1.74	10.27	12.01	-1.74	0.00	10.27	0.00	0.00	0.00
66	SD-60	-0.80	10.18	10.98	-0.80	0.00	10.18	0.00	0.00	0.00
67	SD-63	1.90	12.10	10.20	1.90	0.00	12.10	0.00	0.00	0.00
68	SD-65	0.66	11.90	11.24	0.66	0.00	11.90	0.00	0.00	0.00
69	SD-66	-0.42	10.85	11.27	-0.42	0.00	10.85	0.00	0.00	0.00
70	SD-67	-1.05	10.00	11.05	-1.05	0.00	10.00	0.00	0.00	0.00
71	SD-68	-2.28	10.35	12.63	-2.28	0.00	10.35	0.00	0.00	0.00
72	SD-69	-2.85	10.34	13.19	-2.85	0.00	10.34	0.00	0.00	0.00
73	SD-7	2.00	9.48	7.48	2.00	0.00	9.48	0.00	0.00	0.00
74	SD-70	-4.12	10.20	14.32	-4.12	0.00	10.20	0.00	0.00	0.00
75	SD-71	3.30	12.56	9.26	3.30	0.00	12.56	0.00	0.00	0.00
76	SD-72	-4.83	9.83	14.66	-4.83	0.00	9.83	0.00	0.00	0.00
77	SD-73	-5.14	10.72	15.86	-5.14	0.00	10.72	0.00	0.00	0.00
78	SD-74	-2.32	11.35	13.67	-2.32	0.00	11.35	0.00	0.00	0.00
79	SD-75	2.80	10.22	7.42	2.80	0.00	10.22	0.00	0.00	0.00
80	SD-76	-0.48	9.34	9.82	-0.48	0.00	9.34	0.00	0.00	0.00
81	SD-76A	5.25	12.28	7.03	5.25	0.00	12.28	0.00	0.00	0.00
82	SD-76B	5.48	14.93	9.45	5.48	0.00	14.93	0.00	0.00	0.00
83	SD-77	-0.24	9.76	10.00	-0.24	0.00	9.76	0.00	0.00	0.00
84	SD-77A	5.96	12.94	6.98	5.96	0.00	12.94	0.00	0.00	0.00
85	SD-78	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00
86	SD-78A	6.52	14.61	8.09	6.52	0.00	14.61	0.00	0.00	0.00
87	SD-79	2.14	10.86	8.72	2.14	0.00	10.86	0.00	0.00	0.00
88	SD-79A	7.02	14.39	7.37	7.02	0.00	14.39	0.00	0.00	0.00

Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
89 SD-8	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00
90 SD-80	9.46	13.86	4.40	9.46	0.00	13.86	0.00	0.00	0.00
91 SD-80A	8.56	13.76	5.20	8.56	0.00	13.76	0.00	0.00	0.00
92 SD-81	3.95	10.41	6.46	3.95	0.00	10.41	0.00	0.00	0.00
93 SD-9	0.18	10.03	9.85	0.18	0.00	10.03	0.00	0.00	0.00
94 SD-91	4.00	11.26	7.26	4.00	0.00	11.26	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
88 SD-79A	7.10	1.22	13.00	5.98	0.00	1.39	8.10	1.08	0 11:29	0 00:00	0.00	0.00
89 SD-8	2.61	0.00	4.48	3.56	0.00	5.31	1.43	0.51	0 11:30	0 00:00	0.00	0.00
90 SD-80	1.78	1.78	12.53	3.07	0.00	1.33	9.71	0.25	0 11:16	0 00:00	0.00	0.00
91 SD-80A	9.16	9.16	13.76	5.20	0.00	0.00	9.47	0.91	0 10:57	0 11:30	1.70	43.00
92 SD-81	0.95	0.34	10.41	6.46	0.00	0.00	4.36	0.41	0 10:58	0 10:58	0.00	0.00
93 SD-9	2.88	0.02	2.48	2.30	0.00	7.55	0.52	0.34	0 11:25	0 00:00	0.00	0.00
94 SD-91	0.55	0.55	4.36	0.36	0.00	6.91	4.14	0.14	0 11:30	0 00:00	0.00	0.00

Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate
89 Pipe - (94)	230.06	1.57	0.00	0.29	0.00	1.29	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
90 Pipe - (95)	36.83	0.29	0.00	0.08	0.00	0.21	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
91 Pipe - (96)	77.73	5.96	0.00	5.25	0.00	0.71	0.9100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
92 Pipe - (97)	146.12	3.95	0.00	3.15	0.00	0.80	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
93 Pipe - (98)	63.81	3.15	0.00	2.80	0.00	0.35	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No

No. of
Barrels

1
1
1
1
1

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
88 Pipe - (93)	3.58	0 11:31	7.82	0.46	3.82	0.34	0.78	0.52	0.00	0.90	Calculated
89 Pipe - (94)	3.84	0 11:31	7.85	0.49	2.74	1.40	1.11	0.74	0.00	0.38	Calculated
90 Pipe - (95)	3.94	0 11:31	7.84	0.50	2.23	0.28	1.49	0.99	0.00	0.15	Calculated
91 Pipe - (96)	0.75	0 10:57	10.04	0.07	0.66	1.96	1.50	1.00	49.00	0.01	SURCHARGED
92 Pipe - (97)	0.77	0 10:58	2.64	0.29	1.11	2.19	1.00	1.00	46.00	0.48	SURCHARGED
93 Pipe - (98)	0.77	0 10:58	2.64	0.29	0.98	1.09	1.00	1.00	73.00	0.05	SURCHARGED

Adams Street 2-year Flow SWMM Modeling Report (Including Outside)

Project Description

File Name ADAMS STREET PUMP STATION BASIN - INCLUDING THE PORTIONS OUTSIDE LEVEE_EX 2 YEAR F

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Nov 01, 2004 14:15:00
End Analysis On Nov 02, 2004 14:15:00
Start Reporting On Nov 01, 2004 14:15:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	103
<i>Junctions</i>	102
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	101
<i>Channels</i>	0
<i>Pipes</i>	101
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

LOW.SPF

Node Summary

SN Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
88 SD-78	Junction	0.92	9.79	0.92	9.79	0.00	13.15	5.48	0.00	4.31	0 00:00	0.00	0.00
89 SD-78A	Junction	6.52	14.61	6.52	14.61	0.00	7.75	12.43	0.00	2.18	0 00:00	0.00	0.00
90 SD-79	Junction	2.14	10.86	2.14	10.86	0.00	13.14	7.77	0.00	3.08	0 00:00	0.00	0.00
91 SD-79A	Junction	7.02	14.39	7.02	14.39	0.00	7.11	13.08	0.00	1.32	0 00:00	0.00	0.00
92 SD-8	Junction	0.92	9.79	0.92	9.79	0.00	2.45	7.19	0.00	2.61	0 00:00	0.00	0.00
93 SD-80	Junction	9.46	13.86	9.46	13.86	0.00	1.78	11.93	0.00	1.93	0 00:00	0.00	0.00
94 SD-80A	Junction	8.56	13.76	8.56	13.76	0.00	9.16	13.76	0.00	0.00	0 11:30	1.92	43.00
95 SD-81	Junction	3.95	10.41	3.95	10.41	0.00	0.94	10.41	0.00	0.00	0 10:58	0.00	0.00
96 SD-85	Junction	4.05	13.21	4.05	13.21	0.00	10.32	12.05	0.00	1.16	0 00:00	0.00	0.00
97 SD-86	Junction	5.78	13.40	5.78	13.40	0.00	8.59	12.44	0.00	0.96	0 00:00	0.00	0.00
98 SD-87	Junction	6.85	13.68	6.85	13.68	0.00	6.84	12.91	0.00	0.77	0 00:00	0.00	0.00
99 SD-88	Junction	7.87	14.19	7.87	14.19	0.00	4.64	13.34	0.00	0.84	0 00:00	0.00	0.00
100 SD-89	Junction	10.58	13.63	10.58	13.63	0.00	2.28	13.63	0.00	0.00	0 11:17	0.00	0.00
101 SD-9	Junction	0.18	10.03	0.18	10.03	0.00	2.70	5.41	0.00	4.61	0 00:00	0.00	0.00
102 SD-91	Junction	4.00	11.26	4.00	11.26	0.00	2.34	11.26	0.00	0.00	0 11:30	0.50	18.00
103 DUMMY-MH	Outfall	-6.00					56.72	-3.64					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged (min)	Reported Condition
57	Pipe - (54)	Pipe	NODE-18	NODE-19	112.97	6.65	4.97	1.4900	12.000	0.0130	3.52	4.34	0.81	5.13	1.00	1.00	40.00	SURCHARGED
58	Pipe - (55)	Pipe	NODE-19	NODE-20	166.50	4.97	2.49	1.4900	12.000	0.0130	3.51	4.35	0.81	4.46	1.00	1.00	46.00	SURCHARGED
59	Pipe - (56)	Pipe	NODE-20	SD-79	23.93	2.49	2.14	1.4600	12.000	0.0130	3.94	4.31	0.91	5.02	1.00	1.00	91.00	SURCHARGED
60	Pipe - (57)	Pipe	SD-79	NODE-18B	97.50	2.14	1.89	0.2600	24.000	0.0130	13.14	11.46	1.15	4.18	2.00	1.00	48.00	SURCHARGED
61	Pipe - (58)	Pipe	NODE-18B	NODE-19B	128.08	1.89	1.56	0.2600	24.000	0.0130	13.14	11.48	1.14	4.18	2.00	1.00	46.00	SURCHARGED
62	Pipe - (59)	Pipe	NODE-19B	NODE-20B	190.61	1.56	1.07	0.2600	24.000	0.0130	13.14	11.47	1.15	4.18	2.00	1.00	44.00	SURCHARGED
63	Pipe - (60)	Pipe	NODE-20B	SD-78	56.62	1.07	0.92	0.2600	24.000	0.0130	13.15	11.64	1.13	5.42	2.00	1.00	40.00	SURCHARGED
64	Pipe - (61)	Pipe	SD-78	SD-77	28.68	0.92	-0.24	4.0400	24.000	0.0130	13.15	45.50	0.29	4.19	2.00	1.00	40.00	SURCHARGED
65	Pipe - (62)	Pipe	SD-77	SD-76	144.33	-0.24	-0.48	0.1700	27.000	0.0130	22.61	13.85	1.63	5.69	2.25	1.00	35.00	SURCHARGED
66	Pipe - (63)	Pipe	SD-76	NODE-22	223.98	-0.48	-1.62	0.5100	30.000	0.0130	24.39	29.26	0.83	5.34	2.50	1.00	32.00	SURCHARGED
67	Pipe - (64)	Pipe	SD-74	PS	77.02	-2.32	-5.14	3.6600	36.000	0.0130	35.44	127.62	0.28	5.67	3.00	1.00	27.00	SURCHARGED
68	Pipe - (65)	Pipe	SD-73	PS	59.39	-5.14	-5.14	0.0000	36.000	0.0130	21.45	29.83	0.72	3.03	3.00	1.00	69.00	SURCHARGED
69	Pipe - (66)	Pipe	SD-10	NODE-21	73.71	1.28	0.97	0.4200	21.000	0.0130	8.44	10.29	0.82	3.66	1.75	1.00	47.00	SURCHARGED
70	Pipe - (66) (1)	Pipe	NODE-21	SD-77	286.95	0.97	-0.24	0.4200	21.000	0.0130	8.75	10.29	0.85	3.64	1.75	1.00	49.00	SURCHARGED
71	Pipe - (67)	Pipe	NODE-5	SD-10	179.84	1.86	1.28	0.3200	21.000	0.0130	8.22	9.00	0.91	3.42	1.75	1.00	43.00	SURCHARGED
72	Pipe - (68)	Pipe	SD-78A	SD-76B	173.98	6.52	5.48	0.6000	18.000	0.0130	7.74	8.12	0.95	4.38	1.50	1.00	55.00	SURCHARGED
73	Pipe - (69)	Pipe	NODE-22	SD-74	138.16	-1.62	-2.32	0.5100	30.000	0.0130	26.75	29.20	0.92	7.62	2.50	1.00	33.00	SURCHARGED
74	Pipe - (70)	Pipe	MH-B	SD-74	232.06	7.75	-2.32	4.3400	15.000	0.0130	5.49	13.46	0.41	5.76	0.91	0.72	0.00	Calculated
75	Pipe - (71)	Pipe	SD-72	SD-73	255.30	-4.83	-5.14	0.1200	33.000	0.0130	21.42	23.65	0.91	3.61	2.75	1.00	76.00	SURCHARGED
76	Pipe - (73)	Pipe	NODE-15B	SD-8	38.10	1.03	0.92	0.2900	12.000	0.0130	2.45	1.91	1.28	3.12	1.00	1.00	55.00	SURCHARGED
77	Pipe - (74)	Pipe	NODE-15A	NODE-15B	226.88	1.71	1.03	0.3000	12.000	0.0130	2.27	1.95	1.16	2.89	1.00	1.00	49.00	SURCHARGED
78	Pipe - (75)	Pipe	NODE-13	NODE-14	41.97	2.04	1.91	0.3100	12.000	0.0130	1.62	1.98	0.82	2.07	1.00	1.00	47.00	SURCHARGED
79	Pipe - (76)	Pipe	NODE-14	NODE-15A	67.54	1.91	1.71	0.3000	12.000	0.0130	2.10	1.94	1.08	2.67	1.00	1.00	48.00	SURCHARGED
80	Pipe - (77)	Pipe	NODE-11	NODE-12	41.35	2.77	2.65	0.2900	12.000	0.0130	1.32	1.92	0.69	2.11	1.00	1.00	37.00	SURCHARGED
81	Pipe - (78)	Pipe	NODE-12	NODE-13	204.16	2.65	2.04	0.3000	12.000	0.0130	1.54	1.95	0.79	2.00	1.00	1.00	38.00	SURCHARGED
82	Pipe - (79)	Pipe	SD-8	NODE-16A	108.51	0.92	0.66	0.2400	12.000	0.0130	2.45	1.74	1.41	3.12	1.00	1.00	53.00	SURCHARGED
83	Pipe - (80)	Pipe	NODE-16A	NODE-16B	71.40	0.66	0.49	0.2400	12.000	0.0130	2.56	1.74	1.47	3.26	1.00	1.00	47.00	SURCHARGED
84	Pipe - (81)	Pipe	NODE-16B	SD-9	127.30	0.49	0.18	0.2400	12.000	0.0130	2.68	1.76	1.52	3.41	1.00	1.00	44.00	SURCHARGED
85	Pipe - (82)	Pipe	SD-9	SD-60	279.82	0.18	-0.80	0.3500	15.000	0.0130	2.70	3.82	0.71	3.08	1.25	1.00	40.00	SURCHARGED
86	Pipe - (83)	Pipe	SD-60	NODE 25	109.17	-0.80	-1.70	0.8200	15.000	0.0130	3.58	5.87	0.61	4.11	1.25	1.00	51.00	SURCHARGED
87	Pipe - (84)	Pipe	NODE 25	NODE-24	245.49	-1.70	-3.71	0.8200	15.000	0.0130	3.86	5.85	0.66	3.25	1.25	1.00	60.00	SURCHARGED
88	Pipe - (85)	Pipe	NODE-24	SD-70	48.58	-3.71	-4.12	0.8400	15.000	0.0130	4.21	5.93	0.71	3.43	1.25	1.00	92.00	SURCHARGED
89	Pipe - (86)	Pipe	SD-70	NODE-23	51.28	-4.12	-4.22	0.1900	33.000	0.0130	21.39	23.65	0.90	3.60	2.75	1.00	68.00	SURCHARGED
90	Pipe - (87)	Pipe	NODE-23	SD-72	316.28	-4.22	-4.83	0.1900	33.000	0.0130	21.42	23.65	0.91	3.61	2.75	1.00	68.00	SURCHARGED
91	Pipe - (88)	Pipe	CBSD-22	NODE-6	239.33	5.74	4.26	0.6200	15.000	0.0130	2.43	5.08	0.48	3.42	1.25	1.00	7.00	SURCHARGED
92	Pipe - (89)	Pipe	NODE-6	SD-15	79.46	4.26	3.76	0.6300	15.000	0.0130	2.83	5.12	0.55	3.27	1.25	1.00	19.00	SURCHARGED
93	Pipe - (90)	Pipe	SD-15	NODE-7	41.00	3.76	3.52	0.5900	15.000	0.0130	2.82	4.94	0.57	3.27	1.25	1.00	22.00	SURCHARGED
94	Pipe - (91)	Pipe	NODE-7	NODE-8	232.34	3.52	2.18	0.5800	15.000	0.0130	3.37	4.91	0.69	3.47	1.25	1.00	24.00	SURCHARGED
95	Pipe - (92)	Pipe	NODE-8	SD-7	31.53	2.18	2.00	0.5700	15.000	0.0130	3.58	4.88	0.73	3.53	1.25	1.00	30.00	SURCHARGED
96	Pipe - (93)	Pipe	SD-7	NODE-9	77.64	2.00	1.57	0.5500	18.000	0.0130	3.58	7.82	0.46	3.66	1.50	1.00	29.00	SURCHARGED
97	Pipe - (94)	Pipe	NODE-9	NODE-10	230.06	1.57	0.29	0.5600	18.000	0.0130	3.85	7.85	0.49	2.58	1.50	1.00	31.00	SURCHARGED
98	Pipe - (95)	Pipe	NODE-10	SD-12	36.83	0.29	0.08	0.5600	18.000	0.0130	3.94	7.84	0.50	2.23	1.50	1.00	41.00	SURCHARGED
99	Pipe - (96)	Pipe	SD-77A	SD-76A	77.73	5.96	5.25	0.9100	18.000	0.0130	0.70	10.04	0.07	0.66	1.50	1.00	48.00	SURCHARGED
100	Pipe - (97)	Pipe	SD-81	NODE-5B	146.12	3.95	3.15	0.5500	12.000	0.0130	0.76	2.64	0.29	1.11	1.00	1.00	47.00	SURCHARGED
101	Pipe - (98)	Pipe	NODE-5B	SD-75	63.81	3.15	2.80	0.5500	12.000	0.0130	0.76	2.64	0.29	0.97	1.00	1.00	73.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	CBSD-22	5.74	10.00	4.26	5.74	0.00	10.00	0.00	0.00	0.00
2	CBSD-29	48.55	50.00	1.45	48.55	0.00	50.00	0.00	0.00	0.00
3	MH-B	7.75	13.72	5.97	7.75	0.00	13.72	0.00	0.00	0.00
4	NODE 25	-1.70	9.81	11.51	-1.70	0.00	9.81	0.00	0.00	0.00
5	NODE-1	38.31	48.68	10.37	38.31	0.00	48.68	0.00	0.00	0.00
6	NODE-10	0.29	9.84	9.55	0.29	0.00	9.84	0.00	0.00	0.00
7	NODE-11	2.77	10.15	7.38	2.77	0.00	10.15	0.00	0.00	0.00
8	NODE-12	2.65	9.62	6.97	2.65	0.00	9.62	0.00	0.00	0.00
9	NODE-13	2.04	8.84	6.80	2.04	0.00	8.84	0.00	0.00	0.00
10	NODE-14	1.91	9.08	7.17	1.91	0.00	9.08	0.00	0.00	0.00
11	NODE-15A	1.71	8.89	7.18	1.71	0.00	8.89	0.00	0.00	0.00
12	NODE-15B	1.03	9.35	8.32	1.03	0.00	9.35	0.00	0.00	0.00
13	NODE-16A	0.66	9.43	8.77	0.66	0.00	9.43	0.00	0.00	0.00
14	NODE-16B	0.49	9.59	9.10	0.49	0.00	9.59	0.00	0.00	0.00
15	NODE-17	2.48	10.06	7.58	2.48	0.00	10.06	0.00	0.00	0.00
16	NODE-18	6.65	11.32	4.67	6.65	0.00	11.32	0.00	0.00	0.00
17	NODE-18A	4.36	10.18	5.82	4.36	0.00	10.18	0.00	0.00	0.00
18	NODE-18B	1.89	9.97	8.08	1.89	0.00	9.97	0.00	0.00	0.00
19	NODE-19	4.97	9.90	4.93	4.97	0.00	9.90	0.00	0.00	0.00
20	NODE-19A	3.68	10.37	6.69	3.68	0.00	10.37	0.00	0.00	0.00
21	NODE-19B	1.56	9.83	8.27	1.56	0.00	9.83	0.00	0.00	0.00
22	NODE-2	31.09	35.59	4.50	31.09	0.00	35.59	0.00	0.00	0.00
23	NODE-20	2.49	10.63	8.14	2.49	0.00	10.63	0.00	0.00	0.00
24	NODE-20A	2.95	10.14	7.19	2.95	0.00	10.14	0.00	0.00	0.00
25	NODE-20B	1.07	9.83	8.76	1.07	0.00	9.83	0.00	0.00	0.00
26	NODE-21	0.97	9.77	8.80	0.97	0.00	9.77	0.00	0.00	0.00
27	NODE-22	-1.62	10.38	12.00	-1.62	0.00	10.38	0.00	0.00	0.00
28	NODE-23	-4.22	9.30	13.52	-4.22	0.00	9.30	0.00	0.00	0.00
29	NODE-24	-3.71	9.77	13.48	-3.71	0.00	9.77	0.00	0.00	0.00
30	NODE-26	0.39	10.11	9.73	0.39	0.00	10.11	0.00	0.00	0.00
31	NODE-27	0.14	10.05	9.91	0.14	0.00	10.05	0.00	0.00	0.00
32	NODE-28	-1.12	9.32	10.44	-1.12	0.00	9.32	0.00	0.00	0.00
33	NODE-29	-1.93	9.67	11.60	-1.93	0.00	9.67	0.00	0.00	0.00
34	NODE-3	2.82	9.76	6.94	2.82	0.00	9.76	0.00	0.00	0.00
35	NODE-30	-2.67	9.60	12.27	-2.67	0.00	9.60	0.00	0.00	0.00
36	NODE-31	-2.73	10.23	12.96	-2.73	0.00	10.23	0.00	0.00	0.00
37	NODE-32	-2.43	10.40	12.83	-2.43	0.00	10.40	0.00	0.00	0.00
38	NODE-33	-2.03	10.06	12.09	-2.03	0.00	10.06	0.00	0.00	0.00
39	NODE-34	-1.26	10.05	11.31	-1.26	0.00	10.05	0.00	0.00	0.00
40	NODE-35	-0.90	10.33	11.23	-0.90	0.00	10.33	0.00	0.00	0.00
41	NODE-36	-0.53	10.61	11.14	-0.53	0.00	10.61	0.00	0.00	0.00
42	NODE-37	-0.17	10.74	10.91	-0.17	0.00	10.74	0.00	0.00	0.00
43	NODE-38	0.40	11.28	10.88	0.40	0.00	11.28	0.00	0.00	0.00
44	NODE-39	0.89	11.70	10.81	0.89	0.00	11.70	0.00	0.00	0.00
45	NODE-4	2.22	9.84	7.62	2.22	0.00	9.84	0.00	0.00	0.00
46	NODE-40	1.70	11.81	10.11	1.70	0.00	11.81	0.00	0.00	0.00
47	NODE-41	4.97	13.46	8.49	4.97	0.00	13.46	0.00	0.00	0.00
48	NODE-42	9.44	13.88	4.44	9.44	0.00	13.88	0.00	0.00	0.00
49	NODE-5	1.86	10.79	8.93	1.86	0.00	10.79	0.00	0.00	0.00
50	NODE-5B	3.15	10.17	7.02	3.15	0.00	10.17	0.00	0.00	0.00
51	NODE-6	4.26	9.22	4.96	4.26	0.00	9.22	0.00	0.00	0.00
52	NODE-7	3.52	8.86	5.34	3.52	0.00	8.86	0.00	0.00	0.00
53	NODE-8	2.18	9.00	6.82	2.18	0.00	9.00	0.00	0.00	0.00
54	NODE-9	1.57	9.02	7.45	1.57	0.00	9.02	0.00	0.00	0.00
55	Out-1Pipe - (71)	-5.14	0.86	6.00	-5.14	0.00	0.86	0.00	0.00	0.00
56	PS	-5.14	11.64	16.78	-5.14	0.00	11.64	0.00	0.00	0.00
57	SD-10	1.28	10.14	8.86	1.28	0.00	10.14	0.00	0.00	0.00
58	SD-11	2.35	9.85	7.50	2.35	0.00	9.85	0.00	0.00	0.00
59	SD-12	0.08	10.68	10.60	0.08	0.00	10.68	0.00	0.00	0.00
60	SD-15	3.76	9.27	5.51	3.76	0.00	9.27	0.00	0.00	0.00
61	SD-17	4.08	9.88	5.80	4.08	0.00	9.88	0.00	0.00	0.00
62	SD-18	4.02	9.91	5.89	4.02	0.00	9.91	0.00	0.00	0.00
63	SD-26	4.65	10.68	6.03	4.65	0.00	10.68	0.00	0.00	0.00
64	SD-27	6.08	12.02	5.94	6.08	0.00	12.02	0.00	0.00	0.00
65	SD-28	7.98	12.84	4.86	7.98	0.00	12.84	0.00	0.00	0.00
66	SD-56	-0.72	10.13	10.85	-0.72	0.00	10.13	0.00	0.00	0.00
67	SD-57	0.45	9.84	9.39	0.45	0.00	9.84	0.00	0.00	0.00
68	SD-58	-1.74	10.27	12.01	-1.74	0.00	10.27	0.00	0.00	0.00
69	SD-60	-0.80	10.18	10.98	-0.80	0.00	10.18	0.00	0.00	0.00
70	SD-63	1.90	12.10	10.20	1.90	0.00	12.10	0.00	0.00	0.00
71	SD-65	0.66	11.90	11.24	0.66	0.00	11.90	0.00	0.00	0.00
72	SD-66	-0.42	10.85	11.27	-0.42	0.00	10.85	0.00	0.00	0.00
73	SD-67	-1.05	10.00	11.05	-1.05	0.00	10.00	0.00	0.00	0.00
74	SD-68	-2.28	10.35	12.63	-2.28	0.00	10.35	0.00	0.00	0.00
75	SD-69	-2.85	10.34	13.19	-2.85	0.00	10.34	0.00	0.00	0.00
76	SD-7	2.00	9.48	7.48	2.00	0.00	9.48	0.00	0.00	0.00
77	SD-70	-4.12	10.20	14.32	-4.12	0.00	10.20	0.00	0.00	0.00
78	SD-71	3.30	12.56	9.26	3.30	0.00	12.56	0.00	0.00	0.00
79	SD-72	-4.83	9.83	14.66	-4.83	0.00	9.83	0.00	0.00	0.00
80	SD-73	-5.14	10.72	15.86	-5.14	0.00	10.72	0.00	0.00	0.00
81	SD-74	-2.32	11.35	13.67	-2.32	0.00	11.35	0.00	0.00	0.00
82	SD-75	2.80	10.22	7.42	2.80	0.00	10.22	0.00	0.00	0.00
83	SD-76	-0.48	9.34	9.82	-0.48	0.00	9.34	0.00	0.00	0.00
84	SD-76A	5.25	12.28	7.03	5.25	0.00	12.28	0.00	0.00	0.00
85	SD-76B	5.48	14.93	9.45	5.48	0.00	14.93	0.00	0.00	0.00
86	SD-77	-0.24	9.76	10.00	-0.24	0.00	9.76	0.00	0.00	0.00
87	SD-77A	5.96	12.94	6.98	5.96	0.00	12.94	0.00	0.00	0.00
88	SD-78	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00

Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
89 SD-78A	6.52	14.61	8.09	6.52	0.00	14.61	0.00	0.00	0.00
90 SD-79	2.14	10.86	8.72	2.14	0.00	10.86	0.00	0.00	0.00
91 SD-79A	7.02	14.39	7.37	7.02	0.00	14.39	0.00	0.00	0.00
92 SD-8	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00
93 SD-80	9.46	13.86	4.40	9.46	0.00	13.86	0.00	0.00	0.00
94 SD-80A	8.56	13.76	5.20	8.56	0.00	13.76	0.00	0.00	0.00
95 SD-81	3.95	10.41	6.46	3.95	0.00	10.41	0.00	0.00	0.00
96 SD-85	4.05	13.21	9.16	4.05	0.00	13.21	0.00	0.00	0.00
97 SD-86	5.78	13.40	7.62	5.78	0.00	13.40	0.00	0.00	0.00
98 SD-87	6.85	13.68	6.83	6.85	0.00	13.68	0.00	0.00	0.00
99 SD-88	7.87	14.19	6.32	7.87	0.00	14.19	0.00	0.00	0.00
100 SD-89	10.58	13.63	3.05	10.58	0.00	13.63	0.00	0.00	0.00
101 SD-9	0.18	10.03	9.85	0.18	0.00	10.03	0.00	0.00	0.00
102 SD-91	4.00	11.26	7.26	4.00	0.00	11.26	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
88 SD-78	13.15	0.00	5.48	4.56	0.00	4.31	1.39	0.47	0 11:30	0 00:00	0.00	0.00
89 SD-78A	7.75	0.88	12.43	5.91	0.00	2.18	7.24	0.72	0 11:29	0 00:00	0.00	0.00
90 SD-79	13.14	0.00	7.77	5.63	0.00	3.08	2.98	0.84	0 11:30	0 00:00	0.00	0.00
91 SD-79A	7.11	1.22	13.08	6.06	0.00	1.32	7.82	0.80	0 11:29	0 00:00	0.00	0.00
92 SD-8	2.45	0.00	7.19	6.27	0.00	2.61	1.43	0.51	0 11:30	0 00:00	0.00	0.00
93 SD-80	1.78	1.78	11.93	2.47	0.00	1.93	9.66	0.20	0 11:11	0 00:00	0.00	0.00
94 SD-80A	9.16	9.16	13.76	5.20	0.00	0.00	9.22	0.66	0 10:57	0 11:30	1.92	43.00
95 SD-81	0.94	0.34	10.41	6.46	0.00	0.00	4.23	0.28	0 10:58	0 10:58	0.00	0.00
96 SD-85	10.32	1.13	12.05	8.00	0.00	1.16	4.59	0.54	0 11:18	0 00:00	0.00	0.00
97 SD-86	8.59	1.75	12.44	6.66	0.00	0.96	6.25	0.47	0 11:18	0 00:00	0.00	0.00
98 SD-87	6.84	2.20	12.91	6.06	0.00	0.77	7.29	0.44	0 11:18	0 00:00	0.00	0.00
99 SD-88	4.64	2.05	13.34	5.47	0.00	0.84	8.23	0.36	0 11:18	0 00:00	0.00	0.00
100 SD-89	2.28	2.28	13.63	3.05	0.00	0.00	10.78	0.20	0 11:17	0 11:17	0.00	0.00
101 SD-9	2.70	0.02	5.41	5.23	0.00	4.61	0.59	0.41	0 11:06	0 00:00	0.00	0.00
102 SD-91	2.34	0.55	11.26	7.26	0.00	0.00	4.40	0.40	0 11:06	0 11:30	0.50	18.00

Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate
89 Pipe - (86)	51.28	-4.12	0.00	-4.22	0.00	0.10	0.1900	CIRCULAR	33.000	33.000	0.0130	0.5000	0.5000	0.0000	0.00	No
90 Pipe - (87)	316.28	-4.22	0.00	-4.83	0.00	0.61	0.1900	CIRCULAR	33.000	33.000	0.0130	0.5000	0.5000	0.0000	0.00	No
91 Pipe - (88)	239.33	5.74	0.00	4.26	0.00	1.48	0.6200	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
92 Pipe - (89)	79.46	4.26	0.00	3.76	0.00	0.50	0.6300	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
93 Pipe - (90)	41.00	3.76	0.00	3.52	0.00	0.24	0.5900	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
94 Pipe - (91)	232.34	3.52	0.00	2.18	0.00	1.34	0.5800	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
95 Pipe - (92)	31.53	2.18	0.00	2.00	0.00	0.18	0.5700	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
96 Pipe - (93)	77.64	2.00	0.00	1.57	0.00	0.43	0.5500	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
97 Pipe - (94)	230.06	1.57	0.00	0.29	0.00	1.29	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
98 Pipe - (95)	36.83	0.29	0.00	0.08	0.00	0.21	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
99 Pipe - (96)	77.73	5.96	0.00	5.25	0.00	0.71	0.9100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
100 Pipe - (97)	146.12	3.95	0.00	3.15	0.00	0.80	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
101 Pipe - (98)	63.81	3.15	0.00	2.80	0.00	0.35	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition	
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)			
1	OUTFALL-PIPE	56.72	0	11:30	32.09	1.77	11.65	0.20	2.43	0.97	0.00	1.03 > CAPACITY
2	Pipe - (102)	3.93	0	11:30	10.67	0.37	1.92	0.71	1.75	1.00	36.00	0.18 SURCHARGED
3	Pipe - (103)	3.92	0	11:35	12.77	0.31	2.98	0.06	1.75	1.00	36.00	0.77 SURCHARGED
4	Pipe - (104)	4.05	0	11:32	12.95	0.31	3.74	0.16	1.75	1.00	36.00	0.90 SURCHARGED
5	Pipe - (105)	4.44	0	11:32	12.95	0.34	3.43	0.63	1.75	1.00	38.00	0.79 SURCHARGED
6	Pipe - (106)	4.45	0	11:32	8.33	0.53	2.78	0.87	1.75	1.00	45.00	0.59 SURCHARGED
7	Pipe - (107)	5.08	0	11:32	8.30	0.61	2.88	1.31	1.75	1.00	48.00	0.61 SURCHARGED
8	Pipe - (108)	5.10	0	11:32	8.75	0.58	2.92	0.36	1.75	1.00	54.00	0.60 SURCHARGED
9	Pipe - (109)	5.46	0	11:32	8.71	0.63	2.58	1.58	1.75	1.00	56.00	0.58 SURCHARGED
10	Pipe - (110)	5.67	0	11:32	8.84	0.64	2.36	0.41	1.75	1.00	67.00	0.34 SURCHARGED
11	Pipe - (135)	17.01	0	11:32	23.79	0.71	3.46	1.82	2.50	1.00	55.00	0.52 SURCHARGED
12	Pipe - (136)	1.79	0	11:30	5.25	0.34	2.02	2.31	1.50	1.00	48.00	0.61 SURCHARGED
13	Pipe - (137)	2.23	0	11:58	11.82	0.19	1.39	1.33	1.50	1.00	53.00	0.08 SURCHARGED
14	Pipe - (138)	9.94	0	11:18	9.46	1.05	4.13	0.23	1.75	1.00	65.00	0.65 SURCHARGED
15	Pipe - (139)	10.06	0	11:18	9.51	1.06	4.18	0.90	1.75	1.00	65.00	0.66 SURCHARGED
16	Pipe - (140)	10.19	0	11:18	9.51	1.07	4.24	0.25	1.75	1.00	69.00	0.58 SURCHARGED
17	Pipe - (141)	10.17	0	11:18	8.07	1.26	4.23	0.39	1.75	1.00	68.00	0.56 SURCHARGED
18	Pipe - (142)	10.27	0	11:18	8.08	1.27	4.27	0.86	1.75	1.00	67.00	0.56 SURCHARGED
19	Pipe - (143)	10.53	0	11:18	8.08	1.30	4.38	0.36	1.75	1.00	64.00	0.51 SURCHARGED
20	Pipe - (144)	10.51	0	11:18	10.12	1.04	3.35	0.33	2.00	1.00	55.00	0.45 SURCHARGED
21	Pipe - (145)	10.68	0	11:18	10.12	1.06	3.40	1.06	2.00	1.00	55.00	0.48 SURCHARGED
22	Pipe - (146)	10.83	0	11:18	10.12	1.07	3.45	0.49	2.00	1.00	54.00	0.51 SURCHARGED
23	Pipe - (147)	10.81	0	11:18	13.57	0.80	3.56	0.27	2.00	1.00	54.00	0.67 SURCHARGED
24	Pipe - (148)	10.98	0	11:18	13.57	0.81	3.49	1.02	2.00	1.00	55.00	0.69 SURCHARGED
25	Pipe - (149)	11.10	0	11:18	13.79	0.80	3.53	0.32	2.00	1.00	62.00	0.53 SURCHARGED
26	Pipe - (150)	11.09	0	11:18	13.85	0.80	2.79	0.62	2.25	1.00	59.00	0.44 SURCHARGED
27	Pipe - (151)	11.31	0	11:18	13.85	0.82	2.84	1.26	2.25	1.00	59.00	0.43 SURCHARGED
28	Pipe - (152)	11.60	0	11:18	13.85	0.84	3.02	0.49	2.25	1.00	60.00	0.49 SURCHARGED
29	Pipe - (153)	2.52	0	11:39	9.26	0.27	3.88	0.63	1.50	1.00	19.00	1.01 SURCHARGED
30	Pipe - (154)	3.25	0	11:42	9.28	0.35	3.15	1.06	1.50	1.00	23.00	0.67 SURCHARGED
31	Pipe - (155)	4.64	0	11:30	7.68	0.60	3.78	0.84	1.50	1.00	28.00	0.75 SURCHARGED
32	Pipe - (156)	6.84	0	11:30	11.30	0.61	4.36	0.80	1.75	1.00	31.00	0.88 SURCHARGED
33	Pipe - (157)	8.59	0	11:30	24.72	0.35	4.61	0.46	2.25	1.00	33.00	0.94 SURCHARGED
34	Pipe - (158)	9.20	0	11:30	24.69	0.37	5.57	0.43	2.25	1.00	38.00	1.10 SURCHARGED
35	Pipe - (159)	10.32	0	11:30	38.01	0.27	3.60	0.66	2.25	1.00	43.00	0.80 SURCHARGED
36	Pipe - (28)	1.11	0	11:30	12.13	0.09	8.05	0.18	0.23	0.23	0.00	3.23 Calculated
37	Pipe - (29)	1.58	0	11:30	12.13	0.13	10.09	0.10	0.25	0.25	0.00	3.85 Calculated
38	Pipe - (30)	1.61	0	11:30	12.13	0.13	4.90	0.68	0.62	0.62	0.00	2.00 Calculated
39	Pipe - (32)	4.14	0	11:30	7.96	0.52	7.01	0.09	1.00	1.00	28.00	1.86 SURCHARGED
40	Pipe - (33)	4.20	0	11:30	6.68	0.63	3.64	0.61	1.25	1.00	33.00	0.91 SURCHARGED
41	Pipe - (34)	4.60	0	11:19	4.14	1.11	3.75	0.68	1.25	1.00	48.00	0.40 SURCHARGED
42	Pipe - (35)	5.40	0	11:19	2.91	1.86	4.40	0.11	1.25	1.00	38.00	0.48 SURCHARGED
43	Pipe - (36)	6.24	0	11:20	7.87	0.79	3.86	0.97	1.50	1.00	35.00	0.89 SURCHARGED
44	Pipe - (37)	6.62	0	11:20	7.91	0.84	3.74	0.37	1.50	1.00	42.00	0.74 SURCHARGED
45	Pipe - (38)	6.78	0	11:20	8.79	0.77	2.85	0.25	1.75	1.00	41.00	0.62 SURCHARGED
46	Pipe - (39)	7.05	0	11:32	9.11	0.77	2.96	0.61	1.75	1.00	41.00	0.64 SURCHARGED
47	Pipe - (40)	6.30	0	10:58	7.43	0.85	3.65	1.41	1.50	1.00	48.00	0.68 SURCHARGED
48	Pipe - (41)	7.10	0	10:58	5.89	1.21	4.02	0.66	1.50	1.00	55.00	0.72 SURCHARGED
49	Pipe - (44)	7.74	0	10:58	8.20	0.94	4.38	0.14	1.50	1.00	59.00	0.78 SURCHARGED
50	Pipe - (45)	7.83	0	10:57	7.43	1.05	4.43	0.67	1.50	1.00	59.00	0.79 SURCHARGED
51	Pipe - (46)	8.05	0	10:57	7.38	1.09	4.56	0.50	1.50	1.00	64.00	0.79 SURCHARGED
52	Pipe - (47)	8.26	0	10:57	7.42	1.11	4.67	0.52	1.50	1.00	66.00	0.71 SURCHARGED
53	Pipe - (48)	8.42	0	10:57	7.57	1.11	4.77	0.10	1.50	1.00	65.00	0.60 SURCHARGED
54	Pipe - (51)	8.69	0	10:58	10.39	0.84	2.77	0.91	2.00	1.00	48.00	0.53 SURCHARGED
55	Pipe - (52)	9.73	0	10:58	10.51	0.93	3.10	0.85	2.00	1.00	50.00	0.48 SURCHARGED
56	Pipe - (53)	1.78	0	11:30	4.35	0.41	3.42	0.92	1.00	1.00	25.00	1.03 SURCHARGED
57	Pipe - (54)	3.52	0	11:29	4.34	0.81	5.13	0.37	1.00	1.00	40.00	1.36 SURCHARGED
58	Pipe - (55)	3.51	0	11:12	4.35	0.81	4.46	0.62	1.00	1.00	46.00	1.17 SURCHARGED
59	Pipe - (56)	3.94	0	11:12	4.31	0.91	5.02	0.08	1.00	1.00	91.00	0.38 SURCHARGED
60	Pipe - (57)	13.14	0	11:06	11.46	1.15	4.18	0.39	2.00	1.00	48.00	0.57 SURCHARGED
61	Pipe - (58)	13.14	0	11:06	11.48	1.14	4.18	0.51	2.00	1.00	46.00	0.59 SURCHARGED
62	Pipe - (59)	13.14	0	11:06	11.47	1.15	4.18	0.76	2.00	1.00	44.00	0.63 SURCHARGED
63	Pipe - (60)	13.15	0	11:06	11.64	1.13	5.42	0.17	2.00	1.00	40.00	1.13 SURCHARGED
64	Pipe - (61)	13.15	0	11:06	45.50	0.29	4.19	0.11	2.00	1.00	40.00	0.70 SURCHARGED
65	Pipe - (62)	22.61	0	11:13	13.85	1.63	5.69	0.42	2.25	1.00	35.00	0.66 SURCHARGED
66	Pipe - (63)	24.39	0	11:17	29.26	0.83	5.34	0.70	2.50	1.00	32.00	0.86 SURCHARGED
67	Pipe - (64)	35.44	0	11:30	127.62	0.28	5.67	0.23	3.00	1.00	27.00	0.96 SURCHARGED
68	Pipe - (65)	21.45	0	11:32	29.83	0.72	3.03	0.33	3.00	1.00	69.00	0.27 SURCHARGED
69	Pipe - (66)	8.44	0	11:19	10.29	0.82	3.66	0.34	1.75	1.00	47.00	0.74 SURCHARGED
70	Pipe - (66) (1)	8.75	0	11:30	10.29	0.85	3.64	1.31	1.75	1.00	49.00	0.32 SURCHARGED
71	Pipe - (67)	8.22	0	11:20	9.00	0.91	3.42	0.88	1.75	1.00	43.00	0.69 SURCHARGED
72	Pipe - (68)	7.74	0	10:58	8.12	0.95	4.38	0.66	1.50	1.00	55.00	0.83 SURCHARGED
73	Pipe - (69)	26.75	0	11:26	29.20	0.92	7.62	0.30	2.50	1.00	33.00	1.29 SURCHARGED
74	Pipe - (70)	5.49	0	11:30	13.46	0.41	5.76	0.67	0.91	0.72	0.00	1.07 Calculated
75	Pipe - (71)	21.42	0	11:32	23.65	0.91	3.61	1.18	2.75	1.00	76.00	0.31 SURCHARGED
76	Pipe - (73)	2.45	0	11:17	1.91	1.28	3.12	0.20	1.00	1.00	55.00	0.52 SURCHARGED
77	Pipe - (74)	2.27	0	11:17	1.95	1.16	2.89	1.31	1.00	1.00	49.00	0.56 SURCHARGED
78	Pipe - (75)	1.62	0	11:17	1.98	0.82	2.07	0.34	1.00	1.00	47.00	0.53 SURCHARGED
79	Pipe - (76)	2.10	0	11:17	1.94	1.08	2.67	0.42	1.00	1.00	48.00	0.59 SURCHARGED
80	Pipe - (77)	1.32	0	11:30	1.92	0.69	2.11	0.33	1.00	1.00	37.00	0.57 SURCHARGED
81	Pipe - (78)	1.54	0	11:30	1.95	0.79	2.00	1.70	1.00	1.00	38.00	0.59 SURCHARGED
82	Pipe - (79)	2.45	0	11:17	1.74	1.41	3.12	0.58	1.00	1.00	53.00	0.51 SURCHARGED
83	Pipe - (80)	2.56	0	11:17	1.74	1.47	3.26	0.37	1.00	1.00	47.00	0.50 SURCHARGED
84	Pipe - (81)	2.68	0	11:17	1.76	1.52	3.41	0.62	1.00	1.00	44.00	0.61 SURCHARGED
85	Pipe - (82)	2.70	0	11:17	3.82	0.71	3.08	1.51	1.25	1.00	40.00	0.74 SURCHARGED
86	Pipe - (83)	3.58	0	11:17	5.87	0.61	4.11	0.44	1.25	1.00	51.00	1.00 SURCHARGED
87	Pipe - (84)	3.86	0	11:17	5.85	0.66	3.25	1.26	1.25	1.00	60.00	0.86 SURCHARGED

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
88 Pipe - (85)	4.21	0 11:17	5.93	0.71	3.43	0.24	1.25	1.00	92.00	0.28	SURCHARGED
89 Pipe - (86)	21.39	0 11:32	23.65	0.90	3.60	0.24	2.75	1.00	68.00	0.50	SURCHARGED
90 Pipe - (87)	21.42	0 11:32	23.65	0.91	3.61	1.46	2.75	1.00	68.00	0.47	SURCHARGED
91 Pipe - (88)	2.43	0 11:37	5.08	0.48	3.42	1.17	1.25	1.00	7.00	0.89	SURCHARGED
92 Pipe - (89)	2.83	0 11:37	5.12	0.55	3.27	0.41	1.25	1.00	19.00	0.89	SURCHARGED
93 Pipe - (90)	2.82	0 11:37	4.94	0.57	3.27	0.21	1.25	1.00	22.00	0.83	SURCHARGED
94 Pipe - (91)	3.37	0 11:30	4.91	0.69	3.47	1.12	1.25	1.00	24.00	0.84	SURCHARGED
95 Pipe - (92)	3.58	0 11:30	4.88	0.73	3.53	0.15	1.25	1.00	30.00	0.87	SURCHARGED
96 Pipe - (93)	3.58	0 11:30	7.82	0.46	3.66	0.35	1.50	1.00	29.00	0.87	SURCHARGED
97 Pipe - (94)	3.85	0 11:30	7.85	0.49	2.58	1.49	1.50	1.00	31.00	0.36	SURCHARGED
98 Pipe - (95)	3.94	0 11:30	7.84	0.50	2.23	0.28	1.50	1.00	41.00	0.13	SURCHARGED
99 Pipe - (96)	0.70	0 10:57	10.04	0.07	0.66	1.96	1.50	1.00	48.00	0.01	SURCHARGED
100 Pipe - (97)	0.76	0 10:58	2.64	0.29	1.11	2.19	1.00	1.00	47.00	0.51	SURCHARGED
101 Pipe - (98)	0.76	0 10:58	2.64	0.29	0.97	1.10	1.00	1.00	73.00	0.05	SURCHARGED

8th Street 25-year Flow SWMM Modeling Report

Project Description

File Name 8th street outfall basin_existing 25 year flow.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 14, 1971 13:00:00
End Analysis On Jan 15, 1971 13:00:00
Start Reporting On Jan 14, 1971 13:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	21
<i>Junctions</i>	20
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	20
<i>Channels</i>	0
<i>Pipes</i>	20
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	NODE-1	Junction	6.23	10.66	6.23	10.66	0.00	2.46	10.62	0.00	0.04	0 00:00	0.00	0.00
2	NODE-10	Junction	0.75	10.76	0.75	10.76	0.00	8.18	2.91	0.00	7.85	0 00:00	0.00	0.00
3	NODE-2	Junction	6.99	11.15	6.99	11.15	0.00	2.05	11.15	0.00	0.00	0 11:45	0.07	22.00
4	NODE-3	Junction	6.11	10.46	6.11	10.46	0.00	1.78	10.46	0.00	0.00	0 11:45	0.47	40.00
5	NODE-4	Junction	5.69	10.43	5.69	10.43	0.00	1.87	10.42	0.00	0.02	0 00:00	0.00	0.00
6	NODE-5	Junction	5.44	10.25	5.44	10.25	0.00	4.47	9.52	0.00	0.73	0 00:00	0.00	0.00
7	NODE-6	Junction	5.31	10.14	5.31	10.14	0.00	4.63	9.32	0.00	0.82	0 00:00	0.00	0.00
8	NODE-7	Junction	2.86	10.15	2.86	10.15	0.00	4.61	7.69	0.00	2.47	0 00:00	0.00	0.00
9	NODE-8	Junction	5.24	9.91	5.24	9.91	0.00	2.23	9.38	0.00	0.53	0 00:00	0.00	0.00
10	NODE-9	Junction	3.88	9.75	3.88	9.75	0.00	3.39	8.05	0.00	1.70	0 00:00	0.00	0.00
11	SD-17	Junction	0.75	10.67	0.75	10.67	0.00	8.00	3.37	0.00	7.29	0 00:00	0.00	0.00
12	SD-19	Junction	1.42	10.28	1.42	10.28	0.00	7.63	6.65	0.00	3.64	0 00:00	0.00	0.00
13	SD-21	Junction	4.16	10.16	4.16	10.16	0.00	4.45	8.50	0.00	1.65	0 00:00	0.00	0.00
14	SD-23	Junction	5.90	10.35	5.90	10.35	0.00	4.32	9.83	0.00	0.52	0 00:00	0.00	0.00
15	SD-24	Junction	5.48	11.06	5.48	11.06	0.00	4.32	10.27	0.00	0.80	0 00:00	0.00	0.00
16	SD-25	Junction	6.46	10.73	6.46	10.73	0.00	2.32	10.71	0.00	0.01	0 00:00	0.00	0.00
17	SD-26	Junction	6.86	10.71	6.86	10.71	0.00	3.22	10.71	0.00	0.00	0 11:45	1.50	52.00
18	SD-39	Junction	4.80	9.94	4.80	9.94	0.00	3.30	8.72	0.00	1.23	0 00:00	0.00	0.00
19	SD-42	Junction	5.70	10.45	5.70	10.45	0.00	2.15	10.01	0.00	0.44	0 00:00	0.00	0.00
20	SD-50	Junction	1.86	10.59	1.86	10.59	0.00	7.63	5.04	0.00	5.55	0 00:00	0.00	0.00
21	OUTFALL	Outfall	0.75					8.18	1.86					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged (min)	Reported Condition
1	Pipe - (28)	Pipe	SD-26	SD-25	147.10	6.86	6.46	0.2700	12.000	0.0130	1.72	1.86	0.93	2.19	1.00	1.00	84.00	SURCHARGED
2	Pipe - (29)	Pipe	SD-25	NODE-1	50.61	6.46	6.23	0.4500	12.000	0.0130	2.31	2.39	0.97	2.94	1.00	1.00	101.00	SURCHARGED
3	Pipe - (30)	Pipe	NODE-1	SD-24	167.14	6.23	5.48	0.4500	12.000	0.0130	2.46	2.39	1.03	3.14	1.00	1.00	110.00	SURCHARGED
4	Pipe - (31)	Pipe	NODE-4	SD-24	69.60	5.69	5.48	0.3000	12.000	0.0130	1.87	1.96	0.96	2.38	1.00	1.00	136.00	SURCHARGED
5	Pipe - (32)	Pipe	NODE-2	NODE-3	293.71	6.99	6.11	0.3000	12.000	0.0130	1.65	1.95	0.85	2.10	1.00	1.00	64.00	SURCHARGED
6	Pipe - (33)	Pipe	NODE-3	NODE-4	140.39	6.11	5.69	0.3000	12.000	0.0130	1.39	1.95	0.71	1.77	1.00	1.00	105.00	SURCHARGED
7	Pipe - (34)	Pipe	SD-24	SD-23	111.65	5.48	5.90	-0.3800	15.000	0.0130	4.32	3.96	1.09	3.52	1.25	1.00	62.00	SURCHARGED
8	Pipe - (35)	Pipe	SD-23	NODE-5	71.88	5.90	5.44	0.6400	15.000	0.0130	4.35	5.17	0.84	3.54	1.25	1.00	62.00	SURCHARGED
9	Pipe - (36)	Pipe	NODE-5	NODE-6	19.75	5.44	5.31	0.6400	15.000	0.0130	4.46	5.16	0.86	3.76	1.25	1.00	63.00	SURCHARGED
10	Pipe - (37)	Pipe	NODE-6	SD-21	178.52	5.31	4.16	0.6500	15.000	0.0130	4.45	5.19	0.86	4.42	1.25	1.00	63.00	SURCHARGED
11	Pipe - (38)	Pipe	SD-21	NODE-7	178.15	4.16	2.86	0.7300	15.000	0.0130	4.44	5.52	0.80	4.05	1.25	1.00	70.00	SURCHARGED
12	Pipe - (39)	Pipe	NODE-7	SD-19	199.27	2.86	1.42	0.7200	15.000	0.0130	4.60	5.48	0.84	3.75	1.25	1.00	83.00	SURCHARGED
13	Pipe - (40)	Pipe	SD-42	NODE-8	143.56	5.70	5.24	0.3200	12.000	0.0130	2.14	2.02	1.06	2.73	1.00	1.00	39.00	SURCHARGED
14	Pipe - (41)	Pipe	NODE-8	SD-39	138.53	5.24	4.80	0.3200	12.000	0.0130	2.22	2.01	1.11	2.90	1.00	1.00	43.00	SURCHARGED
15	Pipe - (42)	Pipe	SD-39	NODE-9	46.24	4.80	3.88	2.0000	12.000	0.0130	3.29	5.03	0.66	5.11	1.00	1.00	47.00	SURCHARGED
16	Pipe - (43)	Pipe	NODE-9	SD-19	122.83	3.88	1.42	2.0000	12.000	0.0130	3.39	5.04	0.67	4.32	1.00	1.00	56.00	SURCHARGED
17	Pipe - (44)	Pipe	SD-19	SD-50	248.72	1.42	1.86	-0.1800	18.000	0.0130	7.63	4.70	1.62	4.32	1.50	1.00	65.00	SURCHARGED
18	Pipe - (45)	Pipe	SD-50	SD-17	262.01	1.86	0.75	0.4200	18.000	0.0130	7.63	6.84	1.12	4.32	1.50	1.00	65.00	SURCHARGED
19	Pipe - (46)	Pipe	SD-17	NODE-10	25.14	0.75	0.75	0.0000	18.000	0.0130	7.99	4.70	1.70	4.52	1.50	1.00	74.00	SURCHARGED
20	Pipe - (48)	Pipe	NODE-10	OUTFALL	93.97	0.75	0.75	0.0000	18.000	0.0130	8.18	4.70	1.74	5.02	1.30	0.87	0.00	> CAPACITY

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	NODE-1	6.23	10.66	4.43	6.23	0.00	10.66	0.00	0.00	0.00
2	NODE-10	0.75	10.76	10.01	0.75	0.00	10.76	0.00	0.00	0.00
3	NODE-2	6.99	11.15	4.16	6.99	0.00	11.15	0.00	0.00	0.00
4	NODE-3	6.11	10.46	4.35	6.11	0.00	10.46	0.00	0.00	0.00
5	NODE-4	5.69	10.43	4.74	5.69	0.00	10.43	0.00	0.00	0.00
6	NODE-5	5.44	10.25	4.81	5.44	0.00	10.25	0.00	0.00	0.00
7	NODE-6	5.31	10.14	4.82	5.31	0.00	10.14	0.00	0.00	0.00
8	NODE-7	2.86	10.15	7.29	2.86	0.00	10.15	0.00	0.00	0.00
9	NODE-8	5.24	9.91	4.67	5.24	0.00	9.91	0.00	0.00	0.00
10	NODE-9	3.88	9.75	5.87	3.88	0.00	9.75	0.00	0.00	0.00
11	SD-17	0.75	10.67	9.92	0.75	0.00	10.67	0.00	0.00	0.00
12	SD-19	1.42	10.28	8.86	1.42	0.00	10.28	0.00	0.00	0.00
13	SD-21	4.16	10.16	6.00	4.16	0.00	10.16	0.00	0.00	0.00
14	SD-23	5.90	10.35	4.45	5.90	0.00	10.35	0.00	0.00	0.00
15	SD-24	5.48	11.06	5.58	5.48	0.00	11.06	0.00	0.00	0.00
16	SD-25	6.46	10.73	4.27	6.46	0.00	10.73	0.00	0.00	0.00
17	SD-26	6.86	10.71	3.85	6.86	0.00	10.71	0.00	0.00	0.00
18	SD-39	4.80	9.94	5.14	4.80	0.00	9.94	0.00	0.00	0.00
19	SD-42	5.70	10.45	4.75	5.70	0.00	10.45	0.00	0.00	0.00
20	SD-50	1.86	10.59	8.73	1.86	0.00	10.59	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
		(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1	NODE-1	2.46	0.28	10.62	4.39	0.00	0.04	6.67	0.44	0 11:45	0 00:00	0.00	0.00
2	NODE-10	8.18	0.19	2.91	2.16	0.00	7.85	1.33	0.58	0 11:45	0 00:00	0.00	0.00
3	NODE-2	2.05	2.05	11.15	4.16	0.00	0.00	7.28	0.29	0 11:29	0 11:45	0.07	22.00
4	NODE-3	1.78	0.13	10.46	4.35	0.00	0.00	6.52	0.41	0 11:16	0 11:45	0.47	40.00
5	NODE-4	1.87	0.80	10.42	4.73	0.00	0.02	6.41	0.72	0 11:45	0 00:00	0.00	0.00
6	NODE-5	4.47	0.22	9.52	4.08	0.00	0.73	5.85	0.41	0 11:45	0 00:00	0.00	0.00
7	NODE-6	4.63	0.31	9.32	4.01	0.00	0.82	5.69	0.38	0 11:45	0 00:00	0.00	0.00
8	NODE-7	4.61	0.31	7.69	4.83	0.00	2.47	3.30	0.44	0 11:45	0 00:00	0.00	0.00
9	NODE-8	2.23	0.08	9.38	4.14	0.00	0.53	5.48	0.24	0 11:45	0 00:00	0.00	0.00
10	NODE-9	3.39	0.10	8.05	4.17	0.00	1.70	4.09	0.21	0 11:45	0 00:00	0.00	0.00
11	SD-17	8.00	0.37	3.37	2.62	0.00	7.29	1.38	0.63	0 11:45	0 00:00	0.00	0.00
12	SD-19	7.63	0.00	6.65	5.23	0.00	3.64	2.46	1.04	0 11:45	0 00:00	0.00	0.00
13	SD-21	4.45	0.00	8.50	4.34	0.00	1.65	4.54	0.38	0 11:45	0 00:00	0.00	0.00
14	SD-23	4.32	0.00	9.83	3.93	0.00	0.52	6.28	0.38	0 11:45	0 00:00	0.00	0.00
15	SD-24	4.32	0.55	10.27	4.79	0.00	0.80	6.39	0.91	0 11:45	0 00:00	0.00	0.00
16	SD-25	2.32	1.09	10.71	4.25	0.00	0.01	6.89	0.43	0 11:44	0 00:00	0.00	0.00
17	SD-26	3.22	3.22	10.71	3.85	0.00	0.00	7.25	0.39	0 11:10	0 11:45	1.50	52.00
18	SD-39	3.30	1.08	8.72	3.92	0.00	1.23	5.00	0.20	0 11:45	0 00:00	0.00	0.00
19	SD-42	2.15	2.15	10.01	4.31	0.00	0.44	5.92	0.22	0 11:45	0 00:00	0.00	0.00
20	SD-50	7.63	0.00	5.04	3.18	0.00	5.55	2.26	0.40	0 11:45	0 00:00	0.00	0.00

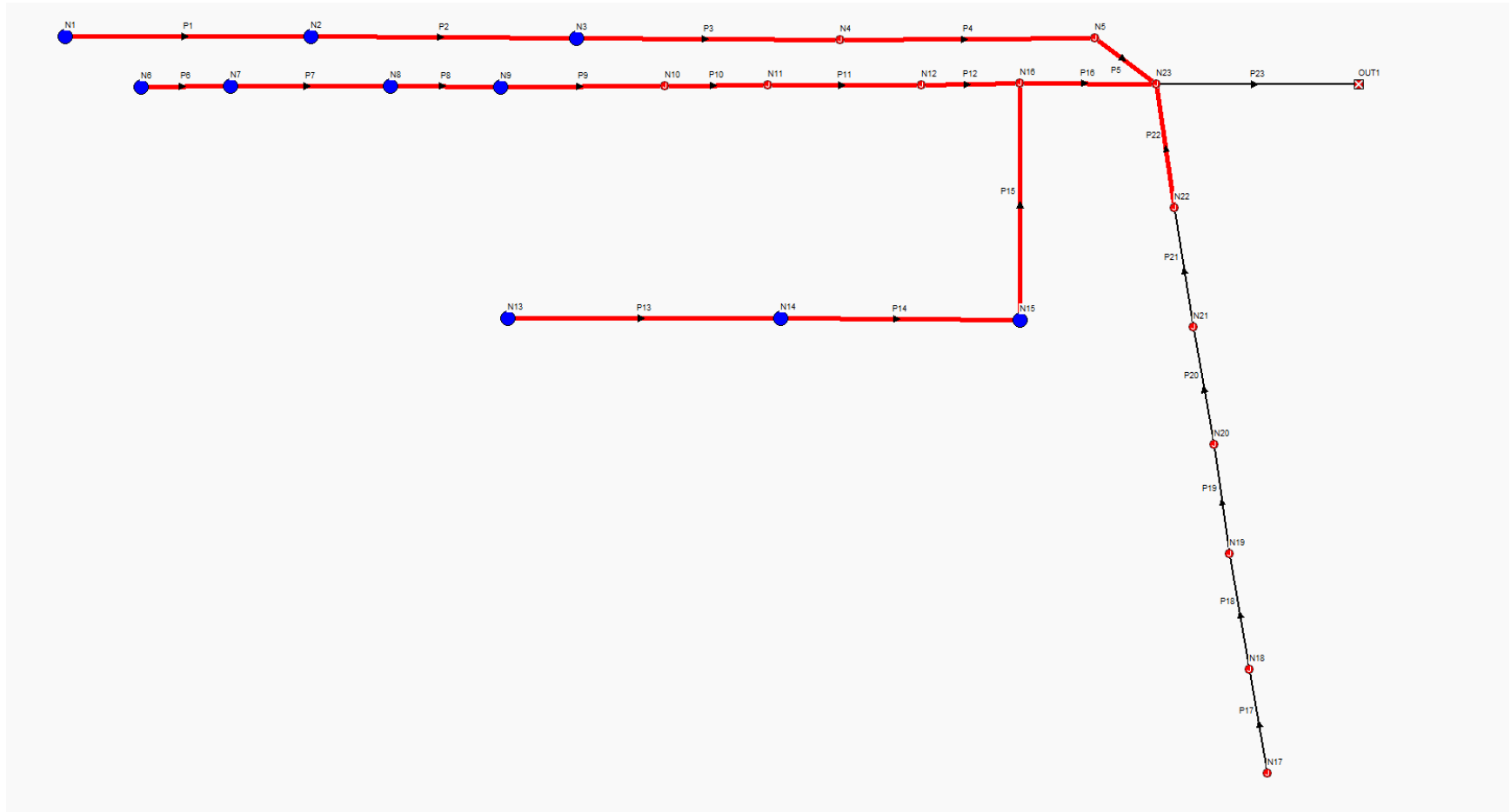
Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Pipe Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Pipe - (28)	147.10	6.86	0.00	6.46	0.00	0.40	0.2700	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
2	Pipe - (29)	50.61	6.46	0.00	6.23	0.00	0.23	0.4500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
3	Pipe - (30)	167.14	6.23	0.00	5.48	0.00	0.75	0.4500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
4	Pipe - (31)	69.60	5.69	0.00	5.48	0.00	0.21	0.3000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
5	Pipe - (32)	293.71	6.99	0.00	6.11	0.00	0.88	0.3000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
6	Pipe - (33)	140.39	6.11	0.00	5.69	0.00	0.42	0.3000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
7	Pipe - (34)	111.65	5.48	0.00	5.90	0.00	-0.42	-0.3800	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
8	Pipe - (35)	71.88	5.90	0.00	5.44	0.00	0.46	0.6400	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
9	Pipe - (36)	19.75	5.44	0.00	5.31	0.00	0.13	0.6400	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
10	Pipe - (37)	178.52	5.31	0.00	4.16	0.00	1.15	0.6500	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
11	Pipe - (38)	178.15	4.16	0.00	2.86	0.00	1.30	0.7300	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
12	Pipe - (39)	199.27	2.86	0.00	1.42	0.00	1.44	0.7200	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
13	Pipe - (40)	143.56	5.70	0.00	5.24	0.00	0.46	0.3200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
14	Pipe - (41)	138.53	5.24	0.00	4.80	0.00	0.44	0.3200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
15	Pipe - (42)	46.24	4.80	0.00	3.88	0.00	0.92	2.0000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
16	Pipe - (43)	122.83	3.88	0.00	1.42	0.00	2.46	2.0000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
17	Pipe - (44)	248.72	1.42	0.00	1.86	0.00	-0.44	-0.1800	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
18	Pipe - (45)	262.01	1.86	0.00	0.75	0.00	1.11	0.4200	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
19	Pipe - (46)	25.14	0.75	0.00	0.75	0.00	0.00	0.0000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
20	Pipe - (48)	93.97	0.75	0.00	0.75	0.00	0.00	0.0000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
1 Pipe - (28)	1.72	0 11:10	1.86	0.93	2.19	1.12	1.00	1.00	84.00	0.54	SURCHARGED
2 Pipe - (29)	2.31	0 11:09	2.39	0.97	2.94	0.29	1.00	1.00	101.00	0.67	SURCHARGED
3 Pipe - (30)	2.46	0 11:09	2.39	1.03	3.14	0.89	1.00	1.00	110.00	0.12	SURCHARGED
4 Pipe - (31)	1.87	0 11:16	1.96	0.96	2.38	0.49	1.00	1.00	136.00	0.04	SURCHARGED
5 Pipe - (32)	1.65	0 11:36	1.95	0.85	2.10	2.33	1.00	1.00	64.00	0.52	SURCHARGED
6 Pipe - (33)	1.39	0 11:16	1.95	0.71	1.77	1.32	1.00	1.00	105.00	0.09	SURCHARGED
7 Pipe - (34)	4.32	0 11:09	3.96	1.09	3.52	0.53	1.25	1.00	62.00	0.21	SURCHARGED
8 Pipe - (35)	4.35	0 11:09	5.17	0.84	3.54	0.34	1.25	1.00	62.00	0.82	SURCHARGED
9 Pipe - (36)	4.46	0 11:09	5.16	0.86	3.76	0.09	1.25	1.00	63.00	0.83	SURCHARGED
10 Pipe - (37)	4.45	0 11:10	5.19	0.86	4.42	0.67	1.25	1.00	63.00	0.97	SURCHARGED
11 Pipe - (38)	4.44	0 11:10	5.52	0.80	4.05	0.73	1.25	1.00	70.00	0.97	SURCHARGED
12 Pipe - (39)	4.60	0 11:10	5.48	0.84	3.75	0.89	1.25	1.00	83.00	0.18	SURCHARGED
13 Pipe - (40)	2.14	0 11:45	2.02	1.06	2.73	0.88	1.00	1.00	39.00	0.59	SURCHARGED
14 Pipe - (41)	2.22	0 11:45	2.01	1.11	2.90	0.80	1.00	1.00	43.00	0.74	SURCHARGED
15 Pipe - (42)	3.29	0 11:45	5.03	0.66	5.11	0.15	1.00	1.00	47.00	1.53	SURCHARGED
16 Pipe - (43)	3.39	0 11:45	5.04	0.67	4.32	0.47	1.00	1.00	56.00	0.15	SURCHARGED
17 Pipe - (44)	7.63	0 11:45	4.70	1.62	4.32	0.96	1.50	1.00	65.00	0.20	SURCHARGED
18 Pipe - (45)	7.63	0 11:45	6.84	1.12	4.32	1.01	1.50	1.00	65.00	0.39	SURCHARGED
19 Pipe - (46)	7.99	0 11:45	4.70	1.70	4.52	0.09	1.50	1.00	74.00	0.25	SURCHARGED
20 Pipe - (48)	8.18	0 11:45	4.70	1.74	5.02	0.31	1.30	0.87	0.00	0.49	> CAPACITY

Queen Avenue 25-year Flow SWMM Modeling Report



Project Description

File Name SWMM_Queen_25yr.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Dec 22, 1961 06:00:00
End Analysis On Dec 23, 1961 06:00:00
Start Reporting On Dec 22, 1961 06:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:15:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	24
<i>Junctions</i>	23
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	23
<i>Channels</i>	0
<i>Pipes</i>	23
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Ponded Area	Peak Inflow	Max HGL Elevation Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
			(ft)	(ft)	(ft)	(ft)	(ft ²)	(cfs)	(ft)	(ft)	(ft)	(days hh:mm)	(ac-in)	(min)
1	N1	Junction	8.07	11.20	8.07	11.20	0.00	3.16	11.20	0.00	0.00	0 12:00	3.32	232.00
2	N10	Junction	1.70	10.40	1.70	0.00	0.00	4.08	10.37	0.00	0.03	0 00:00	0.00	0.00
3	N11	Junction	1.55	10.40	1.55	0.00	0.00	3.16	10.34	0.00	0.06	0 00:00	0.00	0.00
4	N12	Junction	1.15	10.70	1.15	0.00	0.00	3.23	10.18	0.00	0.52	0 00:00	0.00	0.00
5	N13	Junction	3.85	10.30	3.85	0.00	0.00	3.69	10.30	0.00	0.00	0 12:00	7.81	427.00
6	N14	Junction	3.62	10.20	3.62	0.00	0.00	2.93	10.20	0.00	0.00	0 12:00	12.17	424.00
7	N15	Junction	2.61	10.30	2.61	0.00	0.00	11.96	10.30	0.00	0.00	0 12:00	14.38	335.00
8	N16	Junction	0.62	10.60	0.62	0.00	0.00	6.97	10.06	0.00	0.54	0 00:00	0.00	0.00
9	N17	Junction	3.66	10.50	3.66	0.00	0.00	0.96	4.13	0.00	6.37	0 00:00	0.00	0.00
10	N18	Junction	2.92	10.90	2.92	0.00	0.00	1.47	3.41	0.00	7.49	0 00:00	0.00	0.00
11	N19	Junction	1.65	10.70	1.65	0.00	0.00	6.62	2.71	0.00	7.99	0 00:00	0.00	0.00
12	N2	Junction	8.02	11.00	8.02	11.00	0.00	6.59	11.00	0.00	0.00	0 12:00	1.57	84.00
13	N20	Junction	-0.50	11.00	-0.50	0.00	0.00	6.61	0.79	0.00	10.21	0 00:00	0.00	0.00
14	N21	Junction	-1.16	11.10	-1.16	0.00	0.00	6.61	0.36	0.00	10.74	0 00:00	0.00	0.00
15	N22	Junction	-3.08	11.20	-3.08	0.00	0.00	9.43	0.03	0.00	11.17	0 00:00	0.00	0.00
16	N23	Junction	-4.74	10.70	-4.74	0.00	0.00	29.40	-0.67	0.00	11.37	0 00:00	0.00	0.00
17	N3	Junction	-0.13	10.30	-0.13	10.30	0.00	12.48	10.30	0.00	0.00	0 12:00	9.78	214.00
18	N4	Junction	-1.44	11.20	-1.44	11.20	0.00	10.65	10.31	0.00	0.89	0 00:00	0.00	0.00
19	N5	Junction	-4.32	10.32	-4.32	0.00	0.00	12.62	9.66	0.00	0.66	0 00:00	0.00	0.00
20	N6	Junction	4.18	11.00	4.18	0.00	0.00	2.39	11.00	0.00	0.00	0 09:11	0.01	1.00
21	N7	Junction	3.92	10.50	3.92	0.00	0.00	6.23	10.50	0.00	0.00	0 12:00	9.92	394.00
22	N8	Junction	2.68	10.40	2.68	0.00	0.00	3.27	10.40	0.00	0.00	0 12:00	0.01	8.00
23	N9	Junction	2.26	10.20	10.20	0.00	0.00	10.11	10.20	0.00	0.00	0 12:00	25.45	423.00
24	OUT1	Outfall	-4.74					29.40	-2.89					

Link Summary

SN Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Reported	Surcharged Condition
				(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	P1	Pipe	N1 N2	455.00	8.07	8.02	0.0100	12.000	0.0130	1.28	0.37	3.44	1.87	1.00	1.00	253.00	SURCHARGED
2	P10	Pipe	N10 N11	132.00	1.70	1.55	0.1100	18.000	0.0130	2.99	3.54	0.84	3.78	1.50	1.00	626.00	SURCHARGED
3	P11	Pipe	N11 N12	290.00	1.55	1.15	0.1400	18.000	0.0130	3.16	3.90	0.81	2.74	1.50	1.00	638.00	SURCHARGED
4	P12	Pipe	N12 N16	133.00	1.15	0.62	0.4000	18.000	0.0130	3.23	6.63	0.49	3.94	1.50	1.00	669.00	SURCHARGED
5	P13	Pipe	N13 N14	415.00	3.85	3.62	0.0600	12.000	0.0130	0.80	0.84	0.96	1.34	1.00	1.00	481.00	SURCHARGED
6	P14	Pipe	N14 N15	403.00	3.62	2.61	0.2500	12.000	0.0130	1.27	1.78	0.71	1.69	1.00	1.00	489.00	SURCHARGED
7	P15	Pipe	N15 N16	657.00	2.61	0.62	0.3000	18.000	0.0130	3.67	5.78	0.64	2.08	1.50	1.00	510.00	SURCHARGED
8	P16	Pipe	N16 N23	400.00	0.00	0.00	0.0000	12.000	0.0100	6.97	1.82	3.82	8.87	1.00	1.00	433.00	SURCHARGED
9	P17	Pipe	N17 N18	392.00	3.66	2.92	0.1900	18.000	0.0130	0.95	4.56	0.21	1.95	0.48	0.32	0.00	Calculated
10	P18	Pipe	N18 N19	360.00	2.92	1.65	0.3500	18.000	0.0130	1.45	6.24	0.23	1.63	0.77	0.52	0.00	Calculated
11	P19	Pipe	N19 N20	363.00	1.65	-0.50	0.5900	18.000	0.0130	6.56	8.08	0.81	4.49	1.14	0.77	0.00	Calculated
12	P2	Pipe	N2 N3	461.00	8.02	-0.13	1.7700	18.000	0.0130	3.92	13.97	0.28	3.13	1.50	1.00	240.00	SURCHARGED
13	P20	Pipe	N20 N21	317.00	-0.50	-1.16	0.2100	24.000	0.0130	6.45	10.32	0.63	3.51	1.30	0.70	0.00	Calculated
14	P21	Pipe	N21 N22	374.00	-1.16	-3.08	0.5100	24.000	0.0130	6.56	16.21	0.40	2.75	1.68	0.88	0.00	Calculated
15	P22	Pipe	N22 N23	323.00	-3.08	-4.74	0.5100	24.000	0.0130	9.43	16.22	0.58	3.00	2.00	1.00	79.00	SURCHARGED
16	P23	Pipe	N23 OUT1	49.00	-4.74	-4.74	0.0000	24.000	0.0130	29.40	1.02	28.77	9.48	1.92	0.96	0.00	> CAPACITY
17	P3	Pipe	N3 N4	450.00	-0.13	-1.44	0.2900	21.000	0.0130	7.30	8.55	0.85	3.35	1.75	1.00	389.00	SURCHARGED
18	P4	Pipe	N4 N5	354.00	-1.44	-4.32	0.8100	24.000	0.0130	10.65	20.40	0.52	3.39	2.00	1.00	406.00	SURCHARGED
19	P5	Pipe	N5 N23	51.00	-4.32	-4.74	0.8200	12.000	0.0130	12.62	3.23	3.90	16.07	1.00	1.00	735.00	SURCHARGED
20	P6	Pipe	N6 N7	287.00	4.18	3.92	0.0900	12.000	0.0130	2.36	1.07	2.20	3.06	1.00	1.00	469.00	SURCHARGED
21	P7	Pipe	N7 N8	308.00	3.92	2.68	0.4000	15.000	0.0130	1.85	4.10	0.45	2.15	1.25	1.00	469.00	SURCHARGED
22	P8	Pipe	N8 N9	175.00	2.68	2.26	0.2400	18.000	0.0130	3.10	5.15	0.60	2.16	1.50	1.00	520.00	SURCHARGED
23	P9	Pipe	N9 N10	286.00	2.26	1.70	0.2000	18.000	0.0130	4.08	4.65	0.88	4.38	1.50	1.00	573.00	SURCHARGED

Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1 N1	8.07	11.20	3.13	8.07	0.00	11.20	0.00	0.00	0.00
2 N10	1.70	10.40	8.70	1.70	0.00	0.00	-10.40	0.00	0.00
3 N11	1.55	10.40	8.85	1.55	0.00	0.00	-10.40	0.00	0.00
4 N12	1.15	10.70	9.55	1.15	0.00	0.00	-10.70	0.00	0.00
5 N13	3.85	10.30	6.45	3.85	0.00	0.00	-10.30	0.00	0.00
6 N14	3.62	10.20	6.58	3.62	0.00	0.00	-10.20	0.00	0.00
7 N15	2.61	10.30	7.69	2.61	0.00	0.00	-10.30	0.00	0.00
8 N16	0.62	10.60	9.98	0.62	0.00	0.00	-10.60	0.00	0.00
9 N17	3.66	10.50	6.84	3.66	0.00	0.00	-10.50	0.00	0.00
10 N18	2.92	10.90	7.98	2.92	0.00	0.00	-10.90	0.00	0.00
11 N19	1.65	10.70	9.05	1.65	0.00	0.00	-10.70	0.00	0.00
12 N2	8.02	11.00	2.98	8.02	0.00	11.00	0.00	0.00	0.00
13 N20	-0.50	11.00	11.50	-0.50	0.00	0.00	-11.00	0.00	0.00
14 N21	-1.16	11.10	12.26	-1.16	0.00	0.00	-11.10	0.00	0.00
15 N22	-3.08	11.20	14.28	-3.08	0.00	0.00	-11.20	0.00	0.00
16 N23	-4.74	10.70	15.44	-4.74	0.00	0.00	-10.70	0.00	0.00
17 N3	-0.13	10.30	10.43	-0.13	0.00	10.30	0.00	0.00	0.00
18 N4	-1.44	11.20	12.64	-1.44	0.00	11.20	0.00	0.00	0.00
19 N5	-4.32	10.32	14.64	-4.32	0.00	0.00	-10.32	0.00	0.00
20 N6	4.18	11.00	6.82	4.18	0.00	0.00	-11.00	0.00	0.00
21 N7	3.92	10.50	6.58	3.92	0.00	0.00	-10.50	0.00	0.00
22 N8	2.68	10.40	7.72	2.68	0.00	0.00	-10.40	0.00	0.00
23 N9	2.26	10.20	7.94	10.20	7.94	0.00	-10.20	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 N1	3.16	3.16	11.20	3.13	0.00	0.00	9.35	1.28	0 10:56	0 12:00	3.32	232.00
2 N10	4.08	3.47	10.37	8.67	0.00	0.03	6.20	4.50	0 11:59	0 00:00	0.00	0.00
3 N11	3.16	1.06	10.34	8.79	0.00	0.06	6.10	4.55	0 12:00	0 00:00	0.00	0.00
4 N12	3.23	0.44	10.18	9.03	0.00	0.52	5.81	4.66	0 12:00	0 00:00	0.00	0.00
5 N13	3.69	3.69	10.30	6.45	0.00	0.00	7.10	3.25	0 09:10	0 12:00	7.81	427.00
6 N14	2.93	1.86	10.20	6.58	0.00	0.00	6.91	3.29	0 09:09	0 12:00	12.17	424.00
7 N15	11.96	11.96	10.30	7.69	0.00	0.00	6.54	3.93	0 10:10	0 12:00	14.38	335.00
8 N16	6.97	2.28	10.06	9.44	0.00	0.54	5.66	5.04	0 12:00	0 00:00	0.00	0.00
9 N17	0.96	0.96	4.13	0.47	0.00	6.37	3.86	0.20	0 12:00	0 00:00	0.00	0.00
10 N18	1.47	0.53	3.41	0.49	0.00	7.49	3.13	0.21	0 12:01	0 00:00	0.00	0.00
11 N19	6.62	5.21	2.71	1.06	0.00	7.99	2.05	0.40	0 12:00	0 00:00	0.00	0.00
12 N2	6.59	5.87	11.00	2.98	0.00	0.00	9.02	1.00	0 10:56	0 12:00	1.57	84.00
13 N20	6.61	0.05	0.79	1.29	0.00	10.21	0.02	0.52	0 12:03	0 00:00	0.00	0.00
14 N21	6.61	0.16	0.36	1.52	0.00	10.74	-0.77	0.39	0 12:04	0 00:00	0.00	0.00
15 N22	9.43	3.21	0.03	3.11	0.00	11.17	-2.19	0.89	0 12:04	0 00:00	0.00	0.00
16 N23	29.40	0.61	-0.67	4.07	0.00	11.37	-2.73	2.01	0 12:04	0 00:00	0.00	0.00
17 N3	12.48	8.61	10.30	10.43	0.00	0.00	3.89	4.02	0 11:14	0 12:00	9.78	214.00
18 N4	10.65	8.09	10.31	11.75	0.00	0.89	2.82	4.26	0 11:59	0 00:00	0.00	0.00
19 N5	12.62	3.82	9.66	13.98	0.00	0.66	1.25	5.57	0 11:59	0 00:00	0.00	0.00
20 N6	2.39	0.13	11.00	6.82	0.00	0.00	7.22	3.04	0 09:11	0 09:11	0.01	1.00
21 N7	6.23	6.10	10.50	6.58	0.00	0.00	7.17	3.25	0 09:11	0 12:00	9.92	394.00
22 N8	3.27	2.18	10.40	7.72	0.00	0.00	6.57	3.89	0 11:55	0 12:00	0.01	8.00
23 N9	10.11	4.75	10.20	7.94	0.00	0.00	6.38	4.12	0 09:11	0 12:00	25.45	423.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Pipe Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	P1	455.00	8.07	0.00	8.02	0.00	0.05	0.0100	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
2	P10	132.00	1.70	0.00	1.55	0.00	0.15	0.1100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
3	P11	290.00	1.55	0.00	1.15	0.00	0.40	0.1400	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
4	P12	133.00	1.15	0.00	0.62	0.00	0.53	0.4000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
5	P13	415.00	3.85	0.00	3.62	0.00	0.23	0.0600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
6	P14	403.00	3.62	0.00	2.61	0.00	1.01	0.2500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
7	P15	657.00	2.61	0.00	0.62	0.00	1.99	0.3000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
8	P16	400.00	0.00	-0.62	0.00	4.74	0.00	0.0000	CIRCULAR	12.000	12.000	0.0100	0.0000	0.0000	0.0000	0.00	No	1
9	P17	392.00	3.66	0.00	2.92	0.00	0.74	0.1900	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
10	P18	360.00	2.92	0.00	1.65	0.00	1.27	0.3500	CIRCULAR	18.000	18.000	0.0130	0.0000	0.0000	0.0000	0.00	No	1
11	P19	363.00	1.65	0.00	-0.50	0.00	2.15	0.5900	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
12	P2	461.00	8.02	0.00	-0.13	0.00	8.15	1.7700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
13	P20	317.00	-0.50	0.00	-1.16	0.00	0.66	0.2100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
14	P21	374.00	-1.16	0.00	-3.08	0.00	1.92	0.5100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
15	P22	323.00	-3.08	0.00	-4.74	0.00	1.66	0.5100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
16	P23	49.00	-4.74	0.00	-4.74	0.00	0.00	0.0000	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
17	P3	450.00	-0.13	0.00	-1.44	0.00	1.31	0.2900	CIRCULAR	21.000	21.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
18	P4	354.00	-1.44	0.00	-4.32	0.00	2.88	0.8100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
19	P5	51.00	-4.32	0.00	-4.74	0.00	0.42	0.8200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
20	P6	287.00	4.18	0.00	3.92	0.00	0.26	0.0900	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
21	P7	308.00	3.92	0.00	2.68	0.00	1.24	0.4000	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
22	P8	175.00	2.68	0.00	2.26	0.00	0.42	0.2400	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
23	P9	286.00	2.26	0.00	1.70	0.00	0.56	0.2000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	P1	1.28	0 11:00	0.37	3.44	1.87	4.06	1.00	1.00	253.00	0.22	SURCHARGED
2	P10	2.99	0 16:13	3.54	0.84	3.78	0.58	1.50	1.00	626.00	0.15	SURCHARGED
3	P11	3.16	0 16:14	3.90	0.81	2.74	1.76	1.50	1.00	638.00	0.19	SURCHARGED
4	P12	3.23	0 16:14	6.63	0.49	3.94	0.56	1.50	1.00	669.00	0.12	SURCHARGED
5	P13	0.80	0 09:10	0.84	0.96	1.34	5.16	1.00	1.00	481.00	0.16	SURCHARGED
6	P14	1.27	0 09:10	1.78	0.71	1.69	3.97	1.00	1.00	489.00	0.19	SURCHARGED
7	P15	3.67	0 09:10	5.78	0.64	2.08	5.26	1.50	1.00	510.00	0.13	SURCHARGED
8	P16	6.97	0 12:00	1.82	3.82	8.87	0.75	1.00	1.00	433.00	0.39	SURCHARGED
9	P17	0.95	0 12:01	4.56	0.21	1.95	3.35	0.48	0.32	0.00	0.53	Calculated
10	P18	1.45	0 12:02	6.24	0.23	1.63	3.68	0.77	0.52	0.00	0.38	Calculated
11	P19	6.56	0 12:01	8.08	0.81	4.49	1.35	1.14	0.77	0.00	0.79	Calculated
12	P2	3.92	0 15:00	13.97	0.28	3.13	2.45	1.50	1.00	240.00	0.46	SURCHARGED
13	P20	6.45	0 12:02	10.32	0.63	3.51	1.51	1.30	0.70	0.00	0.70	Calculated
14	P21	6.56	0 12:06	16.21	0.40	2.75	2.27	1.68	0.88	0.00	0.59	Calculated
15	P22	9.43	0 12:04	16.22	0.58	3.00	1.79	2.00	1.00	79.00	0.14	SURCHARGED
16	P23	29.40	0 12:04	1.02	28.77	9.48	0.09	1.92	0.96	0.00	0.71	> CAPACITY
17	P3	7.30	0 14:52	8.55	0.85	3.35	2.24	1.75	1.00	389.00	0.43	SURCHARGED
18	P4	10.65	0 14:15	20.40	0.52	3.39	1.74	2.00	1.00	406.00	0.30	SURCHARGED
19	P5	12.62	0 11:54	3.23	3.90	16.07	0.05	1.00	1.00	735.00	0.13	SURCHARGED
20	P6	2.36	0 09:10	1.07	2.20	3.06	1.56	1.00	1.00	469.00	0.03	SURCHARGED
21	P7	1.85	0 09:10	4.10	0.45	2.15	2.39	1.25	1.00	469.00	0.27	SURCHARGED
22	P8	3.10	0 12:02	5.15	0.60	2.16	1.35	1.50	1.00	520.00	0.20	SURCHARGED
23	P9	4.08	0 00:00	4.65	0.88	4.38	1.09	1.50	1.00	573.00	0.17	SURCHARGED

Emerson Avenue 25-year Flow SWMM Modeling Report

Project Description

File Name EMERSON BASIN - EXIST 25 YEAR FLOW.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 14, 1971 12:00:00
End Analysis On Jan 15, 1971 12:00:00
Start Reporting On Jan 14, 1971 12:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	71
<i>Junctions</i>	70
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	70
<i>Channels</i>	0
<i>Pipes</i>	70
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Ponded Area	Peak Inflow	Max HGL Elevation Attained	Max Surcharge Depth Attained	Min Freeboard	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
			(ft)	(ft)	(ft)	(ft)	(ft ²)	(cfs)	(ft)	(ft)	(ft)	(days hh:mm)	(ac-in)	(min)
1	CBSD-32	Junction	14.96	16.30	14.96	16.30	0.00	8.30	16.30	0.00	0.00	0 12:44	1.89	44.00
2	OS-11A	Junction	0.77	2.93	0.77	2.93	0.00	8.20	2.83	0.00	0.10	0 00:00	0.00	0.00
3	OS-12	Junction	0.92	3.08	0.92	3.08	0.00	6.78	3.08	0.00	0.00	0 12:45	0.08	18.00
4	OS-127	Junction	2.27	3.88	2.27	3.88	0.00	6.07	3.88	0.00	0.00	0 12:44	4.91	146.00
5	OS-13	Junction	1.12	3.28	1.12	3.28	0.00	7.52	3.28	0.00	0.00	0 12:44	0.96	41.00
6	OS-14	Junction	2.02	3.63	2.02	3.63	0.00	7.25	3.63	0.00	0.00	0 12:44	3.71	127.00
7	OS-15	Junction	2.14	3.75	2.14	3.75	0.00	6.73	3.75	0.00	0.00	0 12:45	3.58	161.00
8	OS-153	Junction	3.18	4.52	3.18	4.52	0.00	6.67	4.52	0.00	0.00	0 12:44	3.18	121.00
9	OS-16	Junction	2.26	10.48	2.26	10.48	0.00	2.97	3.91	0.00	6.56	0 00:00	0.00	0.00
10	OS-165	Junction	4.24	5.32	4.24	5.32	0.00	7.26	5.32	0.00	0.00	0 12:44	4.13	117.00
11	OS-17	Junction	2.90	4.24	2.90	4.24	0.00	2.74	4.12	0.00	0.12	0 00:00	0.00	0.00
12	OS-18	Junction	2.75	4.09	2.75	4.09	0.00	5.61	4.09	0.00	0.00	0 12:45	7.16	234.00
13	OS-19	Junction	3.26	4.60	3.26	4.60	0.00	2.62	4.48	0.00	0.12	0 00:00	0.00	0.00
14	OS-2	Junction	0.00	2.16	0.00	2.16	0.00	5.85	0.57	0.00	1.59	0 00:00	0.00	0.00
15	OS-20	Junction	3.38	4.46	3.38	4.46	0.00	5.87	4.46	0.00	0.00	0 12:45	9.69	265.00
16	OS-21	Junction	4.07	5.15	4.07	5.15	0.00	10.49	5.15	0.00	0.00	0 12:44	8.65	145.00
17	OS-22	Junction	4.98	6.06	4.98	6.06	0.00	7.41	6.06	0.00	0.00	0 12:44	3.76	110.00
18	OS-29	Junction	2.10	3.00	2.10	3.00	0.00	2.05	3.00	0.00	0.00	0 12:44	0.80	66.00
19	OS-31	Junction	2.32	3.40	2.32	3.40	0.00	3.23	3.40	0.00	0.00	0 12:44	3.91	168.00
20	OS-33	Junction	2.80	3.88	2.80	3.88	0.00	3.34	3.88	0.00	0.00	0 12:45	6.41	226.00
21	OS-35	Junction	4.08	5.16	4.08	5.16	0.00	2.51	5.16	0.00	0.00	0 12:44	0.39	54.00
22	OS-5	Junction	-0.84	1.32	-0.84	1.32	0.00	5.68	1.17	0.00	0.15	0 00:00	0.00	0.00
23	OS-58	Junction	3.62	4.70	3.62	4.70	0.00	4.49	4.70	0.00	0.00	0 12:44	2.42	123.00
24	OS-60	Junction	4.42	5.50	4.42	5.50	0.00	7.36	5.50	0.00	0.00	0 12:44	2.85	81.00
25	OS-62	Junction	4.31	5.39	4.31	5.39	0.00	4.99	5.39	0.00	0.00	0 12:44	3.04	112.00
26	OS-7	Junction	-0.74	5.09	-0.74	5.09	0.00	5.60	1.29	0.00	3.80	0 00:00	0.00	0.00
27	OS-8	Junction	-0.75	1.41	-0.75	1.41	0.00	13.66	1.41	0.00	0.00	0 12:45	15.75	277.00
28	OS-82	Junction	4.98	6.06	4.98	6.06	0.00	9.17	6.06	0.00	0.00	0 12:45	4.79	110.00
29	OS-9	Junction	0.22	2.38	0.22	2.38	0.00	10.19	2.28	0.00	0.10	0 00:00	0.00	0.00
30	OS-90	Junction	15.00	16.08	15.00	16.08	0.00	3.02	15.49	0.00	0.59	0 00:00	0.00	0.00
31	PUMP HOUSE	Junction	-6.72	0.22	-6.72	0.22	0.00	59.95	-4.33	0.00	4.55	0 00:00	0.00	0.00
32	SD-1	Junction	-6.70	-2.92	-6.70	-2.92	0.00	59.95	-3.09	0.00	0.18	0 00:00	0.00	0.00
33	SD-10	Junction	1.70	3.86	1.70	3.86	0.00	10.98	3.56	0.00	0.30	0 00:00	0.00	0.00
34	SD-11	Junction	2.10	4.26	2.10	4.26	0.00	8.42	3.80	0.00	0.46	0 00:00	0.00	0.00
35	SD-12	Junction	1.85	4.01	1.85	4.01	0.00	15.37	4.01	0.00	0.00	0 12:45	3.78	48.00
36	SD-13	Junction	2.95	4.29	2.95	4.29	0.00	1.88	4.29	0.00	0.00	0 12:45	0.01	8.00
37	SD-14	Junction	4.96	6.85	4.96	6.85	0.00	10.14	6.25	0.00	0.60	0 00:00	0.00	0.00
38	SD-17	Junction	6.12	7.20	6.12	7.20	0.00	0.86	6.47	0.00	0.73	0 00:00	0.00	0.00
39	SD-18	Junction	3.55	5.71	3.55	5.71	0.00	10.10	4.77	0.00	0.95	0 00:00	0.00	0.00
40	SD-1A	Junction	-3.64	-0.40	-3.64	-0.40	0.00	25.98	-1.54	0.00	1.14	0 00:00	0.00	0.00
41	SD-2	Junction	-5.60	-1.82	-5.60	-1.82	0.00	45.08	-2.08	0.00	0.27	0 00:00	0.00	0.00
42	SD-20	Junction	6.92	8.81	6.92	8.81	0.00	5.51	7.76	0.00	1.05	0 00:00	0.00	0.00
43	SD-200	Junction	35.77	37.11	35.77	37.11	0.00	0.00	35.77	0.00	1.34	0 00:00	0.00	0.00
44	SD-21	Junction	6.15	7.76	6.15	7.76	0.00	16.10	7.76	0.00	0.00	0 12:45	21.29	209.00
45	SD-2A	Junction	-4.00	-0.76	-4.00	-0.76	0.00	25.75	-1.03	0.00	0.28	0 00:00	0.00	0.00
46	SD-3	Junction	-3.44	-0.72	-3.44	-0.72	0.00	18.23	-1.39	0.00	0.66	0 00:00	0.00	0.00
47	SD-30	Junction	10.80	12.45	10.80	12.45	0.00	16.52	12.45	0.00	0.00	0 12:28	2.33	45.00
48	SD-30A	Junction	-1.28	0.88	-1.28	0.88	0.00	9.15	-0.71	0.00	1.60	0 00:00	0.00	0.00
49	SD-31	Junction	13.75	15.36	13.75	15.36	0.00	20.10	15.36	0.00	0.00	0 12:44	0.66	22.00
50	SD-31A	Junction	3.58	4.66	3.58	4.66	0.00	1.06	3.76	0.00	0.90	0 00:00	0.00	0.00
51	SD-32A	Junction	8.02	9.10	8.02	9.10	0.00	0.78	8.33	0.00	0.77	0 00:00	0.00	0.00
52	SD-33	Junction	-0.70	1.46	-0.70	1.46	0.00	7.92	0.50	0.00	0.96	0 00:00	0.00	0.00
53	SD-34	Junction	0.22	2.38	0.22	2.38	0.00	7.14	1.47	0.00	0.92	0 00:00	0.00	0.00
54	SD-3A	Junction	-2.03	0.69	-2.03	0.69	0.00	26.53	0.69	0.00	0.00	0 12:45	0.33	18.00
55	SD-4	Junction	-3.36	-0.64	-3.36	-0.64	0.00	20.33	-0.64	0.00	0.00	0 12:46	1.17	27.00
56	SD-48	Junction	2.55	4.44	2.55	4.44	0.00	2.40	3.01	0.00	1.43	0 00:00	0.00	0.00
57	SD-4A	Junction	-1.24	1.48	-1.24	1.48	0.00	22.48	1.48	0.00	0.00	0 12:45	1.63	26.00
58	SD-5	Junction	-1.85	0.87	-1.85	0.87	0.00	19.62	0.16	0.00	0.71	0 00:00	0.00	0.00
59	SD-50	Junction	3.22	4.30	3.22	4.30	0.00	2.34	3.64	0.00	0.66	0 00:00	0.00	0.00
60	SD-51	Junction	4.49	5.57	4.49	5.57	0.00	1.05	4.94	0.00	0.63	0 00:00	0.00	0.00
61	SD-51A	Junction	3.00	4.61	3.00	4.61	0.00	0.01	3.01	0.00	1.60	0 00:00	0.00	0.00
62	SD-54	Junction	3.00	4.61	3.00	4.61	0.00	0.00	3.00	0.00	1.61	0 00:00	0.00	0.00
63	SD-5A	Junction	1.35	3.51	1.35	3.51	0.00	13.73	3.00	0.00	0.51	0 00:00	0.00	0.00
64	SD-6	Junction	-0.70	1.74	-0.70	1.74	0.00	15.38	1.16	0.00	0.58	0 00:00	0.00	0.00
65	SD-6A	Junction	3.12	10.11	3.12	10.11	0.00	11.11	4.73	0.00	5.38	0 00:00	0.00	0.00
66	SD-7	Junction	0.95	10.82	0.95	10.82	0.00	14.80	2.43	0.00	8.39	0 00:00	0.00	0.00
67	SD-8	Junction	5.35	6.87	5.35	6.87	0.00	2.93	5.91	0.00	0.96	0 00:00	0.00	0.00
68	SD-80	Junction	9.05	10.66	9.05	10.66	0.00	0.89	9.30	0.00	1.36	0 00:00	0.00	0.00
69	SD-82	Junction	6.82	8.43	6.82	8.43	0.00	9.14	8.28	0.00	0.16	0 00:00	0.00	0.00
70	SD-8A	Junction	16.02	17.36	16.02	17.36	0.00	0.00	16.02	0.00	1.34	0 00:00	0.00	0.00
71	Out-1Pipe - (145)	Outfall	-6.92					59.95	-5.08					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged (min)	Reported Condition
1	Pipe - (102)	Pipe	OS-62	OS-35	336.80	4.31	4.08	0.0700	12.000	0.0130	1.30	1.59	0.82	1.70	1.00	1.00	82.00	SURCHARGED
2	Pipe - (103)	Pipe	OS-35	OS-19	299.99	4.08	3.26	0.2700	12.000	0.0130	1.64	1.86	0.88	2.09	1.00	1.00	82.00	SURCHARGED
3	Pipe - (106)	Pipe	OS-60	OS-33	329.29	4.42	2.80	0.4900	12.000	0.0130	2.43	2.50	0.97	3.13	1.00	1.00	84.00	SURCHARGED
4	Pipe - (107)	Pipe	OS-33	OS-16	309.60	2.80	2.26	0.1700	12.000	0.0130	0.74	1.59	0.46	1.34	1.00	1.00	242.00	SURCHARGED
5	Pipe - (11)	Pipe	SD-11	SD-10	148.20	2.10	1.70	0.2700	24.000	0.0130	8.27	11.75	0.70	2.98	1.78	0.89	0.00	Calculated
6	Pipe - (112)	Pipe	OS-90	OS-82	320.17	15.00	4.98	3.1300	12.000	0.0130	3.01	6.30	0.48	4.81	0.74	0.74	0.00	Calculated
7	Pipe - (113)	Pipe	OS-82	OS-58	327.14	4.98	3.62	0.4200	12.000	0.0130	2.21	2.30	0.96	2.99	1.00	1.00	112.00	SURCHARGED
8	Pipe - (114)	Pipe	OS-58	OS-31	332.09	3.62	2.32	0.3900	12.000	0.0130	2.14	2.23	0.96	2.75	1.00	1.00	125.00	SURCHARGED
9	Pipe - (115)	Pipe	OS-31	OS-13	304.81	2.32	1.12	0.3900	12.000	0.0130	1.35	2.24	0.60	1.72	1.00	1.00	178.00	SURCHARGED
10	Pipe - (12)	Pipe	SD-10	SD-7	351.53	1.70	0.95	0.2100	24.000	0.0130	10.96	10.45	1.05	3.98	1.67	0.84	0.00	> CAPACITY
11	Pipe - (130)	Pipe	CBSD-32	SD-31	274.03	14.96	13.75	0.4400	15.000	0.0130	4.54	4.29	1.06	3.78	1.25	1.00	33.00	SURCHARGED
12	Pipe - (134)	Pipe	SD-31	SD-30	64.27	13.75	10.08	5.7100	18.000	0.0130	16.47	22.50	0.73	9.38	1.50	1.00	23.00	SURCHARGED
13	Pipe - (135)	Pipe	SD-30	SD-21	267.89	10.80	6.15	1.7400	18.000	0.0130	13.08	13.84	0.95	7.52	1.50	1.00	46.00	SURCHARGED
14	Pipe - (136)	Pipe	SD-21	SD-20	33.80	6.15	6.92	-2.2800	18.000	0.0130	2.70	15.86	0.17	2.01	1.17	0.78	0.00	Calculated
15	Pipe - (137)	Pipe	SD-20	SD-14	355.68	6.92	4.96	0.5500	21.000	0.0130	5.50	11.76	0.47	3.98	1.07	0.61	0.00	Calculated
16	Pipe - (138)	Pipe	SD-14	SD-6A	304.44	4.96	3.12	0.6000	21.000	0.0130	10.08	12.32	0.82	4.72	1.45	0.83	0.00	Calculated
17	Pipe - (139)	Pipe	SD-6A	SD-5A	620.98	3.12	1.35	0.2900	24.000	0.0130	11.04	12.08	0.91	4.32	1.61	0.81	0.00	Calculated
18	Pipe - (140)	Pipe	SD-5A	SD-4A	407.77	1.35	-1.24	0.6400	24.000	0.0130	13.55	18.03	0.75	4.51	1.81	0.91	0.00	Calculated
19	Pipe - (141)	Pipe	SD-4A	SD-3A	385.27	-1.24	-2.03	0.2100	30.000	0.0130	17.64	18.57	0.95	4.05	2.50	1.00	27.00	SURCHARGED
20	Pipe - (142)	Pipe	SD-3A	SD-2A	380.47	-2.03	-4.00	0.5200	30.000	0.0130	24.93	29.51	0.84	5.08	2.50	1.00	27.00	SURCHARGED
21	Pipe - (143)	Pipe	SD-2A	SD-1A	79.03	-4.00	-3.64	-0.4600	36.000	0.0130	25.61	45.02	0.57	4.54	2.53	0.84	0.00	Calculated
22	Pipe - (144)	Pipe	SD-1A	SD-2	296.77	-3.64	-5.60	0.6600	36.000	0.0130	25.86	54.20	0.48	4.54	2.55	0.85	0.00	Calculated
23	Pipe - (145)	Pipe	PUMP HOUSE	Out-1Pipe - (145)	41.34	-6.72	-6.92	0.4800	72.000	0.0130	59.95	294.56	0.20	6.74	2.11	0.35	0.00	Calculated
24	Pipe - (146)	Pipe	OS-29	OS-11A	306.66	2.10	0.77	0.4300	10.000	0.0130	0.80	1.44	0.55	1.55	0.83	1.00	70.00	SURCHARGED
25	Pipe - (147)	Pipe	SD-8	SD-7	362.60	5.35	0.95	1.2100	15.000	0.0130	2.92	7.12	0.41	3.07	0.90	0.72	0.00	Calculated
26	Pipe - (15)	Pipe	SD-13	SD-12	344.33	2.95	1.85	0.3200	15.000	0.0130	1.74	3.65	0.48	1.41	1.25	1.00	23.00	SURCHARGED
27	Pipe - (16)	Pipe	SD-7	SD-6	346.76	0.95	-0.70	0.4800	27.000	0.0130	14.76	21.36	0.69	4.71	1.66	0.74	0.00	Calculated
28	Pipe - (17)	Pipe	SD-6	SD-5	333.85	-0.70	-1.85	0.3400	27.000	0.0130	15.31	18.18	0.84	4.70	1.92	0.86	0.00	Calculated
29	Pipe - (18)	Pipe	SD-5	SD-4	297.19	-1.85	-3.36	0.5100	30.000	0.0130	19.60	29.24	0.67	4.21	2.25	0.90	0.00	Calculated
30	Pipe - (19)	Pipe	SD-4	SD-3	389.78	-3.36	-3.44	0.0200	30.000	0.0130	17.37	18.34	0.95	4.00	2.27	0.91	0.00	Calculated
31	Pipe - (20)	Pipe	SD-3	SD-2	358.55	-3.44	-5.60	0.6000	30.000	0.0130	17.79	31.84	0.56	4.12	2.27	0.91	0.00	Calculated
32	Pipe - (21)	Pipe	SD-2	SD-1	336.06	-5.60	-6.70	0.3300	42.000	0.0130	45.09	57.56	0.78	4.70	3.50	1.00	6.00	SURCHARGED
33	Pipe - (22)	Pipe	SD-1	PUMP HOUSE	50.00	-6.70	-6.72	0.0400	42.000	0.0130	59.95	44.99	1.33	6.94	2.94	0.84	0.00	> CAPACITY
34	Pipe - (25)	Pipe	SD-51	SD-50	219.31	4.49	3.22	0.5800	12.000	0.0130	1.04	2.71	0.38	3.19	0.43	0.43	0.00	Calculated
35	Pipe - (26)	Pipe	SD-50	SD-5	160.00	3.22	-1.85	3.1700	12.000	0.0130	2.33	6.34	0.37	3.91	0.71	0.71	0.00	Calculated
36	Pipe - (37)	Pipe	SD-200	SD-8A	384.17	35.77	16.02	5.1400	15.000	0.0130	0.00	14.65	0.00	0.00	0.00	0.00	0.00	Calculated
37	Pipe - (38)	Pipe	SD-8A	SD-80	353.49	16.02	9.05	1.9700	15.000	0.0130	0.00	9.07	0.00	0.00	0.13	0.10	0.00	Calculated
38	Pipe - (40)	Pipe	SD-80	SD-82	122.69	9.05	6.82	1.8200	18.000	0.0130	0.88	14.16	0.06	0.94	0.85	0.57	0.00	Calculated
39	Pipe - (41)	Pipe	SD-82	SD-18	457.23	6.82	3.55	0.7200	18.000	0.0130	8.94	8.88	1.01	5.53	1.32	0.89	0.00	> CAPACITY
40	Pipe - (42)	Pipe	SD-18	SD-12	339.78	3.55	1.85	0.5000	24.000	0.0130	10.05	16.00	0.63	3.71	1.60	0.80	0.00	Calculated
41	Pipe - (46)	Pipe	SD-32A	SD-31A	272.65	8.02	3.58	1.6300	12.000	0.0130	0.78	4.55	0.17	5.28	0.24	0.24	0.00	Calculated
42	Pipe - (47)	Pipe	SD-31A	SD-30A	25.16	3.58	-1.28	19.3200	12.000	0.0130	1.06	15.66	0.07	4.01	0.37	0.37	0.00	Calculated
43	Pipe - (49)	Pipe	SD-30A	SD-1	101.35	-1.28	-6.70	5.3500	24.000	0.0130	9.15	52.31	0.17	4.30	1.28	0.64	0.00	Calculated
44	Pipe - (55)	Pipe	SD-54	SD-51A	396.65	3.00	3.00	0.0000	18.000	0.0130	0.00	4.70	0.00	0.00	0.01	0.00	0.00	Calculated
45	Pipe - (56)	Pipe	SD-51A	SD-48	409.94	3.00	2.55	0.1100	18.000	0.0130	0.01	4.70	0.00	0.05	0.23	0.16	0.00	Calculated
46	Pipe - (57)	Pipe	SD-48	SD-34	240.64	2.55	0.22	0.9700	21.000	0.0130	2.37	15.59	0.15	2.04	0.85	0.49	0.00	Calculated
47	Pipe - (58)	Pipe	SD-34	SD-33	375.99	0.22	-0.70	0.2400	24.000	0.0130	7.07	11.19	0.63	3.51	1.22	0.61	0.00	Calculated
48	Pipe - (59)	Pipe	SD-33	SD-30A	191.84	-0.70	-1.28	0.3000	24.000	0.0130	7.89	12.44	0.63	5.89	0.88	0.44	0.00	Calculated
49	Pipe - (7)	Pipe	SD-17	SD-13	373.82	6.12	2.95	0.8500	12.000	0.0130	0.85	3.28	0.26	1.61	0.67	0.67	0.00	Calculated
50	Pipe - (77)	Pipe	OS-22	OS-21	306.98	4.98	4.07	0.3000	12.000	0.0130	1.85	1.94	0.95	2.35	1.00	1.00	113.00	SURCHARGED
51	Pipe - (78)	Pipe	OS-21	OS-20	190.87	4.07	3.38	0.3600	12.000	0.0130	1.98	2.14	0.93	2.52	1.00	1.00	155.00	SURCHARGED
52	Pipe - (79)	Pipe	OS-20	OS-19	153.13	3.38	3.26	0.0800	12.000	0.0130	1.42	1.59	0.89	1.83	1.00	1.00	257.00	SURCHARGED
53	Pipe - (80)	Pipe	OS-19	OS-18	318.56	3.26	2.75	0.1600	15.000	0.0130	2.18	2.89	0.76	1.78	1.24	0.99	0.00	Calculated
54	Pipe - (81)	Pipe	OS-18	OS-17	64.43	2.75	2.90	-0.2300	15.000	0.0130	2.03	3.12	0.65	1.84	1.23	0.99	0.00	Calculated
55	Pipe - (82)	Pipe	OS-17	OS-16	269.12	2.90	2.26	0.2400	15.000	0.0130	2.20	3.15	0.70	1.92	1.23	0.99	0.00	Calculated
56	Pipe - (83)	Pipe	OS-16	OS-15	276.21	2.26	2.14	0.0400	18.000	0.0130	2.78	4.70	0.59	1.74	1.50	1.00	208.00	SURCHARGED

Link Summary

SN Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Reported Surcharged Condition	
				(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
57	Pipe - (84)	Pipe	OS-15	OS-14	44.70	2.14	2.02	0.2700	18.000	0.0130	4.21	5.44	0.77	2.80	1.50	1.00	202.00 SURCHARGED
58	Pipe - (85)	Pipe	OS-14	OS-13	333.43	2.02	1.12	0.2700	18.000	0.0130	4.59	5.46	0.84	2.60	1.50	1.00	202.00 SURCHARGED
59	Pipe - (86)	Pipe	OS-13	OS-12	319.08	1.12	0.92	0.0600	24.000	0.0130	6.38	10.12	0.63	2.17	2.00	1.00	52.00 SURCHARGED
60	Pipe - (87)	Pipe	OS-12	OS-11A	304.65	0.92	0.77	0.0500	24.000	0.0130	6.76	10.12	0.67	2.36	2.00	1.00	24.00 SURCHARGED
61	Pipe - (88)	Pipe	OS-11A	OS-9	410.06	0.77	0.22	0.1300	24.000	0.0130	8.14	10.12	0.80	2.68	2.00	1.00	20.00 SURCHARGED
62	Pipe - (89)	Pipe	OS-9	OS-8	349.30	0.22	-0.75	0.2800	24.000	0.0130	10.18	11.92	0.85	3.24	2.00	1.00	20.00 SURCHARGED
63	Pipe - (9)	Pipe	SD-12	SD-11	162.73	1.85	2.10	-0.1500	24.000	0.0130	7.92	10.12	0.78	2.66	1.85	0.92	0.00 Calculated
64	Pipe - (90)	Pipe	OS-8	OS-7	223.55	-0.75	-0.74	0.0000	24.000	0.0130	5.38	10.12	0.53	1.71	2.00	1.00	62.00 SURCHARGED
65	Pipe - (91)	Pipe	OS-7	OS-5	107.24	-0.74	-0.84	0.0900	24.000	0.0130	5.60	10.12	0.55	1.78	2.00	1.00	30.00 SURCHARGED
66	Pipe - (92)	Pipe	OS-5	OS-2	139.78	-0.84	0.00	-0.6000	24.000	0.0130	5.68	17.54	0.32	2.66	1.28	0.64	0.00 Calculated
67	Pipe - (93)	Pipe	OS-2	SD-1	313.88	0.00	-6.70	2.1300	24.000	0.0130	5.85	33.05	0.18	3.67	1.28	0.64	0.00 Calculated
68	Pipe - (97)	Pipe	OS-165	OS-153	374.39	4.24	3.18	0.2800	12.000	0.0130	1.57	1.90	0.83	2.07	1.00	1.00	119.00 SURCHARGED
69	Pipe - (98)	Pipe	OS-153	OS-127	371.01	3.18	2.27	0.2500	15.000	0.0130	2.54	3.20	0.79	2.07	1.25	1.00	125.00 SURCHARGED
70	Pipe - (99)	Pipe	OS-127	OS-15	309.61	2.27	2.14	0.0400	18.000	0.0130	1.98	4.70	0.42	1.12	1.50	1.00	192.00 SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1	CBSD-32	14.96	16.30	1.34	14.96	0.00	16.30	0.00	0.00	0.00
2	OS-11A	0.77	2.93	2.16	0.77	0.00	2.93	0.00	0.00	0.00
3	OS-12	0.92	3.08	2.16	0.92	0.00	3.08	0.00	0.00	0.00
4	OS-127	2.27	3.88	1.61	2.27	0.00	3.88	0.00	0.00	0.00
5	OS-13	1.12	3.28	2.16	1.12	0.00	3.28	0.00	0.00	0.00
6	OS-14	2.02	3.63	1.61	2.02	0.00	3.63	0.00	0.00	0.00
7	OS-15	2.14	3.75	1.61	2.14	0.00	3.75	0.00	0.00	0.00
8	OS-153	3.18	4.52	1.34	3.18	0.00	4.52	0.00	0.00	0.00
9	OS-16	2.26	10.48	8.22	2.26	0.00	10.48	0.00	0.00	0.00
10	OS-165	4.24	5.32	1.08	4.24	0.00	5.32	0.00	0.00	0.00
11	OS-17	2.90	4.24	1.34	2.90	0.00	4.24	0.00	0.00	0.00
12	OS-18	2.75	4.09	1.34	2.75	0.00	4.09	0.00	0.00	0.00
13	OS-19	3.26	4.60	1.34	3.26	0.00	4.60	0.00	0.00	0.00
14	OS-2	0.00	2.16	2.16	0.00	0.00	2.16	0.00	0.00	0.00
15	OS-20	3.38	4.46	1.08	3.38	0.00	4.46	0.00	0.00	0.00
16	OS-21	4.07	5.15	1.08	4.07	0.00	5.15	0.00	0.00	0.00
17	OS-22	4.98	6.06	1.08	4.98	0.00	6.06	0.00	0.00	0.00
18	OS-29	2.10	3.00	0.90	2.10	0.00	3.00	0.00	0.00	0.00
19	OS-31	2.32	3.40	1.08	2.32	0.00	3.40	0.00	0.00	0.00
20	OS-33	2.80	3.88	1.08	2.80	0.00	3.88	0.00	0.00	0.00
21	OS-35	4.08	5.16	1.08	4.08	0.00	5.16	0.00	0.00	0.00
22	OS-5	-0.84	1.32	2.16	-0.84	0.00	1.32	0.00	0.00	0.00
23	OS-58	3.62	4.70	1.08	3.62	0.00	4.70	0.00	0.00	0.00
24	OS-60	4.42	5.50	1.08	4.42	0.00	5.50	0.00	0.00	0.00
25	OS-62	4.31	5.39	1.08	4.31	0.00	5.39	0.00	0.00	0.00
26	OS-7	-0.74	5.09	5.83	-0.74	0.00	5.09	0.00	0.00	0.00
27	OS-8	-0.75	1.41	2.16	-0.75	0.00	1.41	0.00	0.00	0.00
28	OS-82	4.98	6.06	1.08	4.98	0.00	6.06	0.00	0.00	0.00
29	OS-9	0.22	2.38	2.16	0.22	0.00	2.38	0.00	0.00	0.00
30	OS-90	15.00	16.08	1.08	15.00	0.00	16.08	0.00	0.00	0.00
31	PUMP HOUSE	-6.72	0.22	6.94	-6.72	0.00	0.22	0.00	0.00	0.00
32	SD-1	-6.70	-2.92	3.79	-6.70	0.00	-2.92	0.00	0.00	0.00
33	SD-10	1.70	3.86	2.16	1.70	0.00	3.86	0.00	0.00	0.00
34	SD-11	2.10	4.26	2.16	2.10	0.00	4.26	0.00	0.00	0.00
35	SD-12	1.85	4.01	2.16	1.85	0.00	4.01	0.00	0.00	0.00
36	SD-13	2.95	4.29	1.34	2.95	0.00	4.29	0.00	0.00	0.00
37	SD-14	4.96	6.85	1.89	4.96	0.00	6.85	0.00	0.00	0.00
38	SD-17	6.12	7.20	1.08	6.12	0.00	7.20	0.00	0.00	0.00
39	SD-18	3.55	5.71	2.16	3.55	0.00	5.71	0.00	0.00	0.00
40	SD-1A	-3.64	-0.40	3.24	-3.64	0.00	-0.40	0.00	0.00	0.00
41	SD-2	-5.60	-1.82	3.79	-5.60	0.00	-1.82	0.00	0.00	0.00
42	SD-20	6.92	8.81	1.89	6.92	0.00	8.81	0.00	0.00	0.00
43	SD-200	35.77	37.11	1.34	35.77	0.00	37.11	0.00	0.00	0.00
44	SD-21	6.15	7.76	1.61	6.15	0.00	7.76	0.00	0.00	0.00
45	SD-2A	-4.00	-0.76	3.24	-4.00	0.00	-0.76	0.00	0.00	0.00
46	SD-3	-3.44	-0.72	2.72	-3.44	0.00	-0.72	0.00	0.00	0.00
47	SD-30	10.80	12.45	1.65	10.80	0.00	12.45	0.00	0.00	0.00
48	SD-30A	-1.28	0.88	2.16	-1.28	0.00	0.88	0.00	0.00	0.00
49	SD-31	13.75	15.36	1.61	13.75	0.00	15.36	0.00	0.00	0.00
50	SD-31A	3.58	4.66	1.08	3.58	0.00	4.66	0.00	0.00	0.00
51	SD-32A	8.02	9.10	1.08	8.02	0.00	9.10	0.00	0.00	0.00
52	SD-33	-0.70	1.46	2.16	-0.70	0.00	1.46	0.00	0.00	0.00
53	SD-34	0.22	2.38	2.16	0.22	0.00	2.38	0.00	0.00	0.00
54	SD-3A	-2.03	0.69	2.72	-2.03	0.00	0.69	0.00	0.00	0.00
55	SD-4	-3.36	-0.64	2.72	-3.36	0.00	-0.64	0.00	0.00	0.00
56	SD-48	2.55	4.44	1.89	2.55	0.00	4.44	0.00	0.00	0.00
57	SD-4A	-1.24	1.48	2.72	-1.24	0.00	1.48	0.00	0.00	0.00
58	SD-5	-1.85	0.87	2.72	-1.85	0.00	0.87	0.00	0.00	0.00
59	SD-50	3.22	4.30	1.08	3.22	0.00	4.30	0.00	0.00	0.00
60	SD-51	4.49	5.57	1.08	4.49	0.00	5.57	0.00	0.00	0.00
61	SD-51A	3.00	4.61	1.61	3.00	0.00	4.61	0.00	0.00	0.00
62	SD-54	3.00	4.61	1.61	3.00	0.00	4.61	0.00	0.00	0.00
63	SD-5A	1.35	3.51	2.16	1.35	0.00	3.51	0.00	0.00	0.00
64	SD-6	-0.70	1.74	2.44	-0.70	0.00	1.74	0.00	0.00	0.00
65	SD-6A	3.12	10.11	6.99	3.12	0.00	10.11	0.00	0.00	0.00
66	SD-7	0.95	10.82	9.87	0.95	0.00	10.82	0.00	0.00	0.00
67	SD-8	5.35	6.87	1.52	5.35	0.00	6.87	0.00	0.00	0.00
68	SD-80	9.05	10.66	1.61	9.05	0.00	10.66	0.00	0.00	0.00
69	SD-82	6.82	8.43	1.61	6.82	0.00	8.43	0.00	0.00	0.00
70	SD-8A	16.02	17.36	1.34	16.02	0.00	17.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation (ft)	Max HGL Depth (ft)	Max Surge Depth (ft)	Min Freeboard (ft)	Average HGL Elevation (ft)	Average HGL Depth (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	CBSD-32	8.30	8.30	16.30	1.34	0.00	0.00	15.33	0.37	0 12:14	0 12:44	1.89	44.00
2	OS-11A	8.20	1.30	2.83	2.06	0.00	0.10	1.78	1.01	0 12:45	0 00:00	0.00	0.00
3	OS-12	6.78	1.28	3.08	2.16	0.00	0.00	2.06	1.14	0 12:32	0 12:45	0.08	18.00
4	OS-127	6.07	3.53	3.88	1.61	0.00	0.00	3.11	0.84	0 11:50	0 12:44	4.91	146.00
5	OS-13	7.52	3.72	3.28	2.16	0.00	0.00	2.29	1.17	0 12:16	0 12:44	0.96	41.00
6	OS-14	7.25	3.61	3.63	1.61	0.00	0.00	2.88	0.86	0 11:53	0 12:44	3.71	127.00
7	OS-15	6.73	2.44	3.75	1.61	0.00	0.00	3.04	0.90	0 11:50	0 12:45	3.58	161.00
8	OS-153	6.67	5.10	4.52	1.34	0.00	0.00	3.69	0.51	0 11:55	0 12:44	3.18	121.00
9	OS-16	2.97	0.96	3.91	1.65	0.00	6.56	3.22	0.96	0 12:44	0 00:00	0.00	0.00
10	OS-165	7.26	7.26	5.32	1.08	0.00	0.00	4.62	0.38	0 11:56	0 12:44	4.13	117.00
11	OS-17	2.74	2.74	4.12	1.22	0.00	0.12	3.55	0.65	0 12:45	0 00:00	0.00	0.00
12	OS-18	5.61	2.41	4.09	1.34	0.00	0.00	3.63	0.88	0 10:59	0 12:45	7.16	234.00
13	OS-19	2.62	1.01	4.48	1.22	0.00	0.12	3.90	0.64	0 12:45	0 00:00	0.00	0.00
14	OS-2	5.85	0.17	0.57	0.57	0.00	1.59	0.40	0.40	0 12:45	0 00:00	0.00	0.00
15	OS-20	5.87	3.46	4.46	1.08	0.00	0.00	4.05	0.67	0 10:51	0 12:45	9.69	265.00
16	OS-21	10.49	8.64	5.15	1.08	0.00	0.00	4.56	0.49	0 11:50	0 12:44	8.65	145.00
17	OS-22	7.41	7.41	6.06	1.08	0.00	0.00	5.36	0.38	0 11:57	0 12:44	3.76	110.00
18	OS-29	2.05	2.05	3.00	0.90	0.00	0.00	2.34	0.24	0 12:06	0 12:44	0.80	66.00
19	OS-31	3.23	1.10	3.40	1.08	0.00	0.00	2.80	0.48	0 11:51	0 12:44	3.91	168.00
20	OS-33	3.34	0.59	3.88	1.08	0.00	0.00	3.32	0.52	0 10:59	0 12:45	6.41	226.00
21	OS-35	2.51	1.62	5.16	1.08	0.00	0.00	4.45	0.37	0 12:08	0 12:44	0.39	54.00
22	OS-5	5.68	0.08	1.17	2.01	0.00	0.15	0.74	1.58	0 12:45	0 00:00	0.00	0.00
23	OS-58	4.49	2.29	4.70	1.08	0.00	0.00	4.04	0.42	0 11:56	0 12:44	2.42	123.00
24	OS-60	7.36	7.36	5.50	1.08	0.00	0.00	4.76	0.34	0 12:02	0 12:44	2.85	81.00
25	OS-62	4.99	4.99	5.39	1.08	0.00	0.00	4.75	0.44	0 11:57	0 12:44	3.04	112.00
26	OS-7	5.60	1.03	1.29	2.03	0.00	3.80	0.80	1.54	0 12:44	0 00:00	0.00	0.00
27	OS-8	13.66	3.49	1.41	2.16	0.00	0.00	0.88	1.63	0 10:57	0 12:45	15.75	277.00
28	OS-82	9.17	6.16	6.06	1.08	0.00	0.00	5.37	0.39	0 11:58	0 12:45	4.79	110.00
29	OS-9	10.19	2.62	2.28	2.06	0.00	0.10	1.17	0.95	0 12:45	0 00:00	0.00	0.00
30	OS-90	3.02	3.02	15.49	0.49	0.00	0.59	15.13	0.13	0 12:45	0 00:00	0.00	0.00
31	PUMP HOUSE	59.95	0.00	-4.33	2.39	0.00	4.55	-5.80	0.92	0 12:45	0 00:00	0.00	0.00
32	SD-1	59.95	0.00	-3.09	3.61	0.00	0.18	-5.38	1.32	0 12:45	0 00:00	0.00	0.00
33	SD-10	10.98	3.39	3.56	1.86	0.00	0.30	2.27	0.57	0 12:45	0 00:00	0.00	0.00
34	SD-11	8.42	0.92	3.80	1.70	0.00	0.46	2.59	0.49	0 12:45	0 00:00	0.00	0.00
35	SD-12	15.37	3.69	4.01	2.16	0.00	0.00	2.71	0.86	0 12:13	0 12:45	3.78	48.00
36	SD-13	1.88	1.03	4.29	1.34	0.00	0.00	3.21	0.26	0 12:39	0 12:45	0.01	8.00
37	SD-14	10.14	4.64	6.25	1.29	0.00	0.60	5.43	0.47	0 12:45	0 00:00	0.00	0.00
38	SD-17	0.86	0.86	6.47	0.35	0.00	0.73	6.22	0.10	0 12:45	0 00:00	0.00	0.00
39	SD-18	10.10	1.18	4.77	1.22	0.00	0.95	3.85	0.30	0 12:46	0 00:00	0.00	0.00
40	SD-1A	25.98	0.44	-1.54	2.10	0.00	1.14	-3.08	0.56	0 12:45	0 00:00	0.00	0.00
41	SD-2	45.08	2.25	-2.08	3.52	0.00	0.27	-4.71	0.89	0 12:45	0 00:00	0.00	0.00
42	SD-20	5.51	5.31	7.76	0.84	0.00	1.05	7.34	0.42	0 12:45	0 00:00	0.00	0.00
43	SD-200	0.00	0.00	35.77	0.00	0.00	1.34	35.77	0.00	0 00:00	0 00:00	0.00	0.00
44	SD-21	16.10	3.44	7.76	1.61	0.00	0.00	7.40	1.25	0 10:56	0 12:45	21.29	209.00
45	SD-2A	25.75	1.04	-1.03	2.97	0.00	0.28	-2.80	1.20	0 12:45	0 00:00	0.00	0.00
46	SD-3	18.23	1.04	-1.39	2.05	0.00	0.66	-2.96	0.48	0 12:45	0 00:00	0.00	0.00
47	SD-30	16.52	0.06	12.45	1.65	0.00	0.00	11.21	0.41	0 12:14	0 12:28	2.33	45.00
48	SD-30A	9.15	0.22	-0.71	0.57	0.00	1.60	-1.12	0.16	0 12:46	0 00:00	0.00	0.00
49	SD-31	20.10	16.58	15.36	1.61	0.00	0.00	14.09	0.34	0 12:29	0 12:44	0.66	22.00
50	SD-31A	1.06	0.28	3.76	0.18	0.00	0.90	3.63	0.05	0 12:45	0 00:00	0.00	0.00
51	SD-32A	0.78	0.78	8.33	0.31	0.00	0.77	8.10	0.08	0 12:45	0 00:00	0.00	0.00
52	SD-33	7.92	0.86	0.50	1.20	0.00	0.96	-0.38	0.32	0 12:46	0 00:00	0.00	0.00
53	SD-34	7.14	4.77	1.47	1.25	0.00	0.92	0.52	0.30	0 12:45	0 00:00	0.00	0.00
54	SD-3A	26.53	10.13	0.69	2.72	0.00	0.00	-1.38	0.65	0 12:29	0 12:45	0.33	18.00
55	SD-4	20.33	0.76	-0.64	2.72	0.00	0.00	-2.43	0.93	0 12:29	0 12:46	1.17	27.00
56	SD-48	2.40	2.40	3.01	0.46	0.00	1.43	2.68	0.13	0 12:45	0 00:00	0.00	0.00
57	SD-4A	22.48	9.08	1.48	2.72	0.00	0.00	-0.47	0.77	0 12:29	0 12:45	1.63	26.00
58	SD-5	19.62	2.08	0.16	2.01	0.00	0.71	-1.36	0.49	0 12:46	0 00:00	0.00	0.00
59	SD-50	2.34	1.30	3.64	0.42	0.00	0.66	3.33	0.11	0 12:45	0 00:00	0.00	0.00
60	SD-51	1.05	1.05	4.94	0.45	0.00	0.63	4.61	0.12	0 12:45	0 00:00	0.00	0.00
61	SD-51A	0.01	0.00	3.01	0.01	0.00	1.60	3.00	0.00	0 12:47	0 00:00	0.00	0.00
62	SD-54	0.00	0.00	3.00	0.00	0.00	1.61	3.00	0.00	0 14:33	0 00:00	0.00	0.00
63	SD-5A	13.73	2.75	3.00	1.65	0.00	0.51	1.83	0.48	0 12:47	0 00:00	0.00	0.00
64	SD-6	15.38	0.64	1.16	1.86	0.00	0.58	-0.18	0.52	0 12:46	0 00:00	0.00	0.00
65	SD-6A	11.11	1.05	4.73	1.61	0.00	5.38	3.71	0.59	0 12:46	0 00:00	0.00	0.00
66	SD-7	14.80	0.92	2.43	1.48	0.00	8.39	1.40	0.45	0 12:45	0 00:00	0.00	0.00
67	SD-8	2.93	2.93	5.91	0.56	0.00	0.96	5.50	0.15	0 12:45	0 00:00	0.00	0.00
68	SD-80	0.89	0.89	9.30	0.25	0.00	1.36	9.12	0.07	0 12:45	0 00:00	0.00	0.00
69	SD-82	9.14	8.26	8.28	1.46	0.00	0.16	7.12	0.30	0 12:45	0 00:00	0.00	0.00
70	SD-8A	0.00	0.00	16.02	0.00	0.00	1.34	16.02	0.00	0 00:00	0 00:00	0.00	0.00

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	Pipe - (102)	1.30	0 11:58	1.59	0.82	1.70	3.30	1.00	1.00	82.00	0.31	SURCHARGED
2	Pipe - (103)	1.64	0 13:00	1.86	0.88	2.09	2.39	1.00	1.00	82.00	0.24	SURCHARGED
3	Pipe - (106)	2.43	0 12:02	2.50	0.97	3.13	1.75	1.00	1.00	84.00	0.48	SURCHARGED
4	Pipe - (107)	0.74	0 10:59	1.59	0.46	1.34	3.85	1.00	1.00	242.00	0.10	SURCHARGED
5	Pipe - (11)	8.27	0 12:14	11.75	0.70	2.98	0.83	1.78	0.89	0.00	0.54	Calculated
6	Pipe - (112)	3.01	0 12:45	6.30	0.48	4.81	1.11	0.74	0.74	0.00	0.58	Calculated
7	Pipe - (113)	2.21	0 11:58	2.30	0.96	2.99	1.82	1.00	1.00	112.00	0.60	SURCHARGED
8	Pipe - (114)	2.14	0 11:55	2.23	0.96	2.75	2.01	1.00	1.00	125.00	0.58	SURCHARGED
9	Pipe - (115)	1.35	0 14:40	2.24	0.60	1.72	2.95	1.00	1.00	178.00	0.15	SURCHARGED
10	Pipe - (12)	10.96	0 12:45	10.45	1.05	3.98	1.47	1.67	0.84	0.00	0.67	> CAPACITY
11	Pipe - (130)	4.54	0 12:14	4.29	1.06	3.78	1.21	1.25	1.00	33.00	0.85	SURCHARGED
12	Pipe - (134)	16.47	0 12:28	22.50	0.73	9.38	0.11	1.50	1.00	23.00	2.00	SURCHARGED
13	Pipe - (135)	13.08	0 12:13	13.84	0.95	7.52	0.59	1.50	1.00	46.00	0.26	SURCHARGED
14	Pipe - (136)	2.70	0 11:47	15.86	0.17	2.01	0.28	1.17	0.78	0.00	0.20	Calculated
15	Pipe - (137)	5.50	0 12:45	11.76	0.47	3.98	1.49	1.07	0.61	0.00	0.94	Calculated
16	Pipe - (138)	10.08	0 12:45	12.32	0.82	4.72	1.07	1.45	0.83	0.00	0.85	Calculated
17	Pipe - (139)	11.04	0 12:46	12.08	0.91	4.32	2.40	1.61	0.81	0.00	0.82	Calculated
18	Pipe - (140)	13.55	0 12:47	18.03	0.75	4.51	1.51	1.81	0.91	0.00	0.72	Calculated
19	Pipe - (141)	17.64	0 12:55	18.57	0.95	4.05	1.59	2.50	1.00	27.00	0.66	SURCHARGED
20	Pipe - (142)	24.93	0 12:30	29.51	0.84	5.08	1.25	2.50	1.00	27.00	0.41	SURCHARGED
21	Pipe - (143)	25.61	0 12:31	45.02	0.57	4.54	0.29	2.53	0.84	0.00	0.42	Calculated
22	Pipe - (144)	25.86	0 12:51	54.20	0.48	4.54	1.09	2.55	0.85	0.00	0.79	Calculated
23	Pipe - (145)	59.95	0 12:45	294.56	0.20	6.74	0.10	2.11	0.35	0.00	0.95	Calculated
24	Pipe - (146)	0.80	0 12:06	1.44	0.55	1.55	3.30	0.83	1.00	70.00	0.08	SURCHARGED
25	Pipe - (147)	2.92	0 12:45	7.12	0.41	3.07	1.97	0.90	0.72	0.00	0.37	Calculated
26	Pipe - (15)	1.74	0 12:47	3.65	0.48	1.41	4.07	1.25	1.00	23.00	0.07	SURCHARGED
27	Pipe - (16)	14.76	0 12:45	21.36	0.69	4.71	1.23	1.66	0.74	0.00	0.84	Calculated
28	Pipe - (17)	15.31	0 12:46	18.18	0.84	4.70	1.18	1.92	0.86	0.00	0.82	Calculated
29	Pipe - (18)	19.60	0 12:46	29.24	0.67	4.21	1.18	2.25	0.90	0.00	0.43	Calculated
30	Pipe - (19)	17.37	0 12:30	18.34	0.95	4.00	1.62	2.27	0.91	0.00	0.43	Calculated
31	Pipe - (20)	17.79	0 12:57	31.84	0.56	4.12	1.45	2.27	0.91	0.00	0.55	Calculated
32	Pipe - (21)	45.09	0 12:52	57.56	0.78	4.70	1.19	3.50	1.00	6.00	0.43	SURCHARGED
33	Pipe - (22)	59.95	0 12:45	44.99	1.33	6.94	0.12	2.94	0.84	0.00	0.72	> CAPACITY
34	Pipe - (25)	1.04	0 12:45	2.71	0.38	3.19	1.15	0.43	0.43	0.00	0.90	Calculated
35	Pipe - (26)	2.33	0 12:45	6.34	0.37	3.91	0.68	0.71	0.71	0.00	0.38	Calculated
36	Pipe - (37)	0.00	0 00:00	14.65	0.00	0.00		0.00	0.00	0.00	0.00	Calculated
37	Pipe - (38)	0.00	0 00:00	9.07	0.00	0.00		0.13	0.10	0.00	0.00	Calculated
38	Pipe - (40)	0.88	0 12:45	14.16	0.06	0.94	2.18	0.85	0.57	0.00	0.26	Calculated
39	Pipe - (41)	8.94	0 12:45	8.88	1.01	5.53	1.38	1.32	0.89	0.00	1.03	> CAPACITY
40	Pipe - (42)	10.05	0 12:46	16.00	0.63	3.71	1.53	1.60	0.80	0.00	0.24	Calculated
41	Pipe - (46)	0.78	0 12:45	4.55	0.17	5.28	0.86	0.24	0.24	0.00	1.81	Calculated
42	Pipe - (47)	1.06	0 12:45	15.66	0.07	4.01	0.10	0.37	0.37	0.00	1.19	Calculated
43	Pipe - (49)	9.15	0 12:46	52.31	0.17	4.30	0.39	1.28	0.64	0.00	0.17	Calculated
44	Pipe - (55)	0.00	0 12:47	4.70	0.00	0.00		0.01	0.00	0.00	0.00	Calculated
45	Pipe - (56)	0.01	0 12:45	4.70	0.00	0.05	136.65	0.23	0.16	0.00	0.00	Calculated
46	Pipe - (57)	2.37	0 12:45	15.59	0.15	2.04	1.97	0.85	0.49	0.00	0.44	Calculated
47	Pipe - (58)	7.07	0 12:45	11.19	0.63	3.51	1.79	1.22	0.61	0.00	0.60	Calculated
48	Pipe - (59)	7.89	0 12:46	12.44	0.63	5.89	0.54	0.88	0.44	0.00	1.10	Calculated
49	Pipe - (7)	0.85	0 12:45	3.28	0.26	1.61	3.87	0.67	0.67	0.00	0.51	Calculated
50	Pipe - (77)	1.85	0 12:20	1.94	0.95	2.35	2.18	1.00	1.00	113.00	0.38	SURCHARGED
51	Pipe - (78)	1.98	0 12:55	2.14	0.93	2.52	1.26	1.00	1.00	155.00	0.33	SURCHARGED
52	Pipe - (79)	1.42	0 10:51	1.59	0.89	1.83	1.39	1.00	1.00	257.00	0.26	SURCHARGED
53	Pipe - (80)	2.18	0 12:45	2.89	0.76	1.78	2.98	1.24	0.99	0.00	0.27	Calculated
54	Pipe - (81)	2.03	0 10:53	3.12	0.65	1.84	0.58	1.23	0.99	0.00	0.26	Calculated
55	Pipe - (82)	2.20	0 10:56	3.15	0.70	1.92	2.34	1.23	0.99	0.00	0.31	Calculated
56	Pipe - (83)	2.78	0 11:00	4.70	0.59	1.74	2.65	1.50	1.00	208.00	0.23	SURCHARGED
57	Pipe - (84)	4.21	0 11:00	5.44	0.77	2.80	0.27	1.50	1.00	202.00	0.42	SURCHARGED
58	Pipe - (85)	4.59	0 11:51	5.46	0.84	2.60	2.14	1.50	1.00	202.00	0.31	SURCHARGED
59	Pipe - (86)	6.38	0 11:53	10.12	0.63	2.17	2.45	2.00	1.00	52.00	0.27	SURCHARGED
60	Pipe - (87)	6.76	0 12:14	10.12	0.67	2.36	2.15	2.00	1.00	24.00	0.33	SURCHARGED
61	Pipe - (88)	8.14	0 12:17	10.12	0.80	2.68	2.55	2.00	1.00	20.00	0.46	SURCHARGED
62	Pipe - (89)	10.18	0 12:45	11.92	0.85	3.24	1.80	2.00	1.00	20.00	0.24	SURCHARGED
63	Pipe - (9)	7.92	0 12:13	10.12	0.78	2.66	1.02	1.85	0.92	0.00	0.27	Calculated
64	Pipe - (90)	5.38	0 15:34	10.12	0.53	1.71	2.18	2.00	1.00	62.00	0.09	SURCHARGED
65	Pipe - (91)	5.60	0 12:45	10.12	0.55	1.78	1.00	2.00	1.00	30.00	0.10	SURCHARGED
66	Pipe - (92)	5.68	0 12:45	17.54	0.32	2.66	0.88	1.28	0.64	0.00	0.35	Calculated
67	Pipe - (93)	5.85	0 12:45	33.05	0.18	3.67	1.43	1.28	0.64	0.00	0.62	Calculated
68	Pipe - (97)	1.57	0 12:35	1.90	0.83	2.07	3.01	1.00	1.00	119.00	0.42	SURCHARGED
69	Pipe - (98)	2.54	0 12:35	3.20	0.79	2.07	2.99	1.25	1.00	125.00	0.23	SURCHARGED
70	Pipe - (99)	1.98	0 13:39	4.70	0.42	1.12	4.61	1.50	1.00	192.00	0.12	SURCHARGED

10th Street 25-year Flow SWMM Modeling Report

Project Description

File Name 10th street pump station basin_existing 25 year flow.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 14, 1971 13:00:00
End Analysis On Jan 15, 1971 13:00:00
Start Reporting On Jan 14, 1971 13:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	21
<i>Junctions</i>	20
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	20
<i>Channels</i>	0
<i>Pipes</i>	20
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	NODE-1	Junction	6.35	10.75	6.35	10.75	0.00	2.54	10.21	0.00	0.55	0 00:00	0.00	0.00
2	NODE-12	Junction	1.46	10.78	1.46	10.78	0.00	13.40	4.11	0.00	6.67	0 00:00	0.00	0.00
3	NODE-13	Junction	5.88	12.19	5.88	12.19	0.00	5.16	10.07	0.00	2.12	0 00:00	0.00	0.00
4	NODE-14	Junction	6.39	12.73	6.39	12.73	0.00	2.13	10.51	0.00	2.22	0 00:00	0.00	0.00
5	NODE-2	Junction	6.20	10.21	6.20	10.21	0.00	3.28	10.21	0.00	0.00	0 11:45	0.07	8.00
6	NODE-3	Junction	6.32	10.38	6.32	10.38	0.00	2.85	10.22	0.00	0.16	0 00:00	0.00	0.00
7	NODE-4	Junction	6.13	10.50	6.13	10.50	0.00	3.38	10.22	0.00	0.29	0 00:00	0.00	0.00
8	NODE-5	Junction	6.05	12.21	6.05	12.21	0.00	4.74	10.18	0.00	2.03	0 00:00	0.00	0.00
9	NODE-6	Junction	7.59	11.75	7.59	11.75	0.00	1.33	11.04	0.00	0.72	0 00:00	0.00	0.00
10	NODE-7	Junction	7.75	12.07	7.75	12.07	0.00	0.96	11.07	0.00	1.00	0 00:00	0.00	0.00
11	NODE-8	Junction	5.75	11.21	5.75	11.21	0.00	5.35	9.94	0.00	1.27	0 00:00	0.00	0.00
12	SD-10	Junction	6.40	10.34	6.40	10.34	0.00	2.32	10.17	0.00	0.17	0 00:00	0.00	0.00
13	SD-11	Junction	7.00	12.59	7.00	12.59	0.00	1.90	10.90	0.00	1.69	0 00:00	0.00	0.00
14	SD-12	Junction	8.94	11.77	8.94	10.48	0.00	0.87	11.17	0.00	0.60	0 00:00	0.00	0.00
15	SD-18	Junction	8.58	11.25	8.58	10.10	0.00	2.25	11.04	0.00	0.21	0 00:00	0.00	0.00
16	SD-20	Junction	6.78	9.87	6.78	9.87	0.00	4.69	9.87	0.00	0.00	0 11:45	1.45	41.00
17	SD-22	Junction	6.12	9.69	6.12	9.69	0.00	2.51	9.69	0.00	0.00	0 11:44	1.82	68.00
18	SD-5	Junction	4.25	11.08	4.25	11.08	0.00	11.66	7.10	0.00	3.99	0 00:00	0.00	0.00
19	SD-6	Junction	5.66	10.48	5.66	10.48	0.00	8.73	9.81	0.00	0.67	0 00:00	0.00	0.00
20	SD-9	Junction	6.10	11.96	6.10	11.96	0.00	4.36	10.22	0.00	1.75	0 00:00	0.00	0.00
21	Out-1Pipe - (27)	Outfall	-1.70					13.40	-0.34					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged	Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	Pipe - (1)	Pipe	SD-22	SD-20	371.25	6.12	6.78	-0.1800	12.000	0.0130	0.83	1.59	0.52	1.06	1.00	1.00	119.00	SURCHARGED
2	Pipe - (10)	Pipe	NODE-4	SD-9	26.14	6.13	6.10	0.1100	15.000	0.0130	3.39	2.89	1.17	2.76	1.25	1.00	106.00	SURCHARGED
3	Pipe - (11)	Pipe	SD-12	NODE-7	138.39	8.94	7.75	0.8600	12.000	0.0130	0.87	3.30	0.26	2.38	1.00	1.00	28.00	SURCHARGED
4	Pipe - (12)	Pipe	NODE-7	NODE-6	18.72	7.75	7.59	0.8600	12.000	0.0130	0.95	3.29	0.29	2.23	1.00	1.00	49.00	SURCHARGED
5	Pipe - (13)	Pipe	NODE-6	SD-11	68.14	7.59	7.00	0.8600	12.000	0.0130	1.34	3.30	0.41	2.39	1.00	1.00	51.00	SURCHARGED
6	Pipe - (14)	Pipe	SD-11	NODE-14	103.63	7.00	6.39	0.5900	12.000	0.0130	1.90	2.73	0.70	2.42	1.00	1.00	71.00	SURCHARGED
7	Pipe - (15)	Pipe	NODE-14	SD-9	50.20	6.39	6.10	0.5800	12.000	0.0130	2.14	2.71	0.79	2.73	1.00	1.00	104.00	SURCHARGED
8	Pipe - (16)	Pipe	SD-9	NODE-5	31.53	6.10	6.05	0.1700	18.000	0.0130	4.40	4.70	0.94	2.49	1.50	1.00	80.00	SURCHARGED
9	Pipe - (17)	Pipe	NODE-5	NODE-13	100.25	6.05	5.88	0.1700	18.000	0.0130	4.77	4.70	1.02	2.70	1.50	1.00	78.00	SURCHARGED
10	Pipe - (18)	Pipe	NODE-13	NODE-8	75.32	5.88	5.75	0.1700	18.000	0.0130	5.18	4.70	1.10	2.93	1.50	1.00	72.00	SURCHARGED
11	Pipe - (19)	Pipe	NODE-8	SD-6	55.18	5.75	5.66	0.1600	18.000	0.0130	5.38	4.70	1.15	3.05	1.50	1.00	67.00	SURCHARGED
12	Pipe - (2)	Pipe	SD-18	SD-20	222.91	8.58	6.78	0.8100	12.000	0.0130	2.25	3.20	0.70	2.86	1.00	1.00	70.00	SURCHARGED
13	Pipe - (24)	Pipe	SD-6	SD-5	373.27	5.66	4.25	0.3800	18.000	0.0130	8.73	6.46	1.35	5.09	1.50	1.00	29.00	SURCHARGED
14	Pipe - (26)	Pipe	SD-5	NODE-12	187.40	4.25	1.46	1.4900	18.000	0.0130	11.66	12.82	0.91	6.62	1.50	1.00	29.00	SURCHARGED
15	Pipe - (27)	Pipe	NODE-12	Out-1Pipe - (27)	224.45	1.46	-1.70	1.4100	18.000	0.0130	13.40	12.46	1.08	7.71	1.43	0.95	0.00	> CAPACITY
16	Pipe - (3)	Pipe	SD-20	SD-10	168.77	6.78	6.40	0.2300	12.000	0.0130	2.24	1.69	1.33	2.86	1.00	1.00	119.00	SURCHARGED
17	Pipe - (5)	Pipe	SD-10	NODE-1	48.34	6.40	6.35	0.1100	15.000	0.0130	2.31	2.89	0.80	1.88	1.25	1.00	113.00	SURCHARGED
18	Pipe - (6)	Pipe	NODE-1	NODE-3	24.64	6.35	6.32	0.1100	15.000	0.0130	2.52	2.89	0.87	2.06	1.25	1.00	112.00	SURCHARGED
19	Pipe - (7)	Pipe	NODE-3	NODE-2	118.07	6.32	6.20	0.1100	15.000	0.0130	2.87	2.89	0.99	2.33	1.25	1.00	112.00	SURCHARGED
20	Pipe - (9)	Pipe	NODE-2	NODE-4	66.84	6.20	6.13	0.1100	15.000	0.0130	3.29	2.89	1.14	2.68	1.25	1.00	110.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	NODE-1	6.35	10.75	4.41	6.35	0.00	10.75	0.00	0.00	0.00
2	NODE-12	1.46	10.78	9.32	1.46	0.00	10.78	0.00	0.00	0.00
3	NODE-13	5.88	12.19	6.31	5.88	0.00	12.19	0.00	0.00	0.00
4	NODE-14	6.39	12.73	6.34	6.39	0.00	12.73	0.00	0.00	0.00
5	NODE-2	6.20	10.21	4.01	6.20	0.00	10.21	0.00	0.00	0.00
6	NODE-3	6.32	10.38	4.06	6.32	0.00	10.38	0.00	0.00	0.00
7	NODE-4	6.13	10.50	4.38	6.13	0.00	10.50	0.00	0.00	0.00
8	NODE-5	6.05	12.21	6.16	6.05	0.00	12.21	0.00	0.00	0.00
9	NODE-6	7.59	11.75	4.16	7.59	0.00	11.75	0.00	0.00	0.00
10	NODE-7	7.75	12.07	4.32	7.75	0.00	12.07	0.00	0.00	0.00
11	NODE-8	5.75	11.21	5.46	5.75	0.00	11.21	0.00	0.00	0.00
12	SD-10	6.40	10.34	3.94	6.40	0.00	10.34	0.00	0.00	0.00
13	SD-11	7.00	12.59	5.59	7.00	0.00	12.59	0.00	0.00	0.00
14	SD-12	8.94	11.77	2.83	8.94	0.00	10.48	-1.29	0.00	0.00
15	SD-18	8.58	11.25	2.67	8.58	0.00	10.10	-1.15	0.00	0.00
16	SD-20	6.78	9.87	3.09	6.78	0.00	9.87	0.00	0.00	0.00
17	SD-22	6.12	9.69	3.57	6.12	0.00	9.69	0.00	0.00	0.00
18	SD-5	4.25	11.08	6.83	4.25	0.00	11.08	0.00	0.00	0.00
19	SD-6	5.66	10.48	4.82	5.66	0.00	10.48	0.00	0.00	0.00
20	SD-9	6.10	11.96	5.86	6.10	0.00	11.96	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 NODE-1	2.54	0.46	10.21	3.86	0.00	0.55	6.88	0.53	0 11:40	0 00:00	0.00	0.00
2 NODE-12	13.40	1.75	4.11	2.65	0.00	6.67	1.81	0.35	0 11:44	0 00:00	0.00	0.00
3 NODE-13	5.16	0.63	10.07	4.19	0.00	2.12	6.38	0.50	0 11:45	0 00:00	0.00	0.00
4 NODE-14	2.13	0.24	10.51	4.12	0.00	2.22	6.75	0.36	0 11:45	0 00:00	0.00	0.00
5 NODE-2	3.28	0.86	10.21	4.01	0.00	0.00	6.73	0.53	0 11:39	0 11:45	0.07	8.00
6 NODE-3	2.85	0.67	10.22	3.90	0.00	0.16	6.85	0.53	0 11:40	0 00:00	0.00	0.00
7 NODE-4	3.38	0.25	10.22	4.09	0.00	0.29	6.66	0.53	0 11:44	0 00:00	0.00	0.00
8 NODE-5	4.74	0.56	10.18	4.13	0.00	2.03	6.55	0.50	0 11:45	0 00:00	0.00	0.00
9 NODE-6	1.33	0.38	11.04	3.45	0.00	0.72	7.77	0.18	0 11:45	0 00:00	0.00	0.00
10 NODE-7	0.96	0.09	11.07	3.32	0.00	1.00	7.91	0.16	0 11:45	0 00:00	0.00	0.00
11 NODE-8	5.35	0.26	9.94	4.19	0.00	1.27	6.24	0.49	0 11:45	0 00:00	0.00	0.00
12 SD-10	2.32	0.16	10.17	3.77	0.00	0.17	6.93	0.53	0 11:40	0 00:00	0.00	0.00
13 SD-11	1.90	0.57	10.90	3.90	0.00	1.69	7.25	0.25	0 11:45	0 00:00	0.00	0.00
14 SD-12	0.87	0.87	11.17	2.23	0.00	0.60	9.05	0.11	0 11:44	0 00:00	0.00	0.00
15 SD-18	2.25	2.25	11.04	2.46	0.00	0.21	8.79	0.21	0 11:05	0 00:00	0.00	0.00
16 SD-20	4.69	1.07	9.87	3.09	0.00	0.00	7.26	0.48	0 11:05	0 11:45	1.45	41.00
17 SD-22	2.51	1.76	9.69	3.57	0.00	0.00	7.26	1.14	0 11:05	0 11:44	1.82	68.00
18 SD-5	11.66	3.29	7.10	2.85	0.00	3.99	4.57	0.32	0 11:44	0 00:00	0.00	0.00
19 SD-6	8.73	4.72	9.81	4.15	0.00	0.67	6.13	0.47	0 11:44	0 00:00	0.00	0.00
20 SD-9	4.36	0.00	10.22	4.12	0.00	1.75	6.61	0.51	0 11:45	0 00:00	0.00	0.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Pipe Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow Gate	No. of Barrels
1	Pipe - (1)	371.25	6.12	0.00	6.78	0.00	-0.66	-0.1800	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
2	Pipe - (10)	26.14	6.13	0.00	6.10	0.00	0.03	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
3	Pipe - (11)	138.39	8.94	0.00	7.75	0.00	1.19	0.8600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
4	Pipe - (12)	18.72	7.75	0.00	7.59	0.00	0.16	0.8600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
5	Pipe - (13)	68.14	7.59	0.00	7.00	0.00	0.59	0.8600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
6	Pipe - (14)	103.63	7.00	0.00	6.39	0.00	0.61	0.5900	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
7	Pipe - (15)	50.20	6.39	0.00	6.10	0.00	0.29	0.5800	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
8	Pipe - (16)	31.53	6.10	0.00	6.05	0.00	0.05	0.1700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
9	Pipe - (17)	100.25	6.05	0.00	5.88	0.00	0.17	0.1700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
10	Pipe - (18)	75.32	5.88	0.00	5.75	0.00	0.13	0.1700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
11	Pipe - (19)	55.18	5.75	0.00	5.66	0.00	0.09	0.1600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
12	Pipe - (2)	222.91	8.58	0.00	6.78	0.00	1.80	0.8100	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
13	Pipe - (24)	373.27	5.66	0.00	4.25	0.00	1.41	0.3800	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
14	Pipe - (26)	187.40	4.25	0.00	1.46	0.00	2.79	1.4900	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
15	Pipe - (27)	224.45	1.46	0.00	-1.70	0.00	3.16	1.4100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
16	Pipe - (3)	168.77	6.78	0.00	6.40	0.00	0.38	0.2300	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
17	Pipe - (5)	48.34	6.40	0.00	6.35	0.00	0.05	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
18	Pipe - (6)	24.64	6.35	0.00	6.32	0.00	0.03	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
19	Pipe - (7)	118.07	6.32	0.00	6.20	0.00	0.13	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
20	Pipe - (9)	66.84	6.20	0.00	6.13	0.00	0.07	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
1 Pipe - (1)	0.83	0 11:05	1.59	0.52	1.06	5.84	1.00	1.00	119.00	0.03	SURCHARGED
2 Pipe - (10)	3.39	0 11:05	2.89	1.17	2.76	0.16	1.25	1.00	106.00	0.31	SURCHARGED
3 Pipe - (11)	0.87	0 11:45	3.30	0.26	2.38	0.97	1.00	1.00	28.00	0.93	SURCHARGED
4 Pipe - (12)	0.95	0 11:45	3.29	0.29	2.23	0.14	1.00	1.00	49.00	0.83	SURCHARGED
5 Pipe - (13)	1.34	0 11:45	3.30	0.41	2.39	0.48	1.00	1.00	51.00	0.80	SURCHARGED
6 Pipe - (14)	1.90	0 11:45	2.73	0.70	2.42	0.71	1.00	1.00	71.00	0.68	SURCHARGED
7 Pipe - (15)	2.14	0 11:45	2.71	0.79	2.73	0.31	1.00	1.00	104.00	0.24	SURCHARGED
8 Pipe - (16)	4.40	0 11:57	4.70	0.94	2.49	0.21	1.50	1.00	80.00	0.41	SURCHARGED
9 Pipe - (17)	4.77	0 11:56	4.70	1.02	2.70	0.62	1.50	1.00	78.00	0.44	SURCHARGED
10 Pipe - (18)	5.18	0 11:56	4.70	1.10	2.93	0.43	1.50	1.00	72.00	0.45	SURCHARGED
11 Pipe - (19)	5.38	0 11:56	4.70	1.15	3.05	0.30	1.50	1.00	67.00	0.44	SURCHARGED
12 Pipe - (2)	2.25	0 11:45	3.20	0.70	2.86	1.30	1.00	1.00	70.00	0.43	SURCHARGED
13 Pipe - (24)	8.73	0 11:24	6.46	1.35	5.09	1.22	1.50	1.00	29.00	0.91	SURCHARGED
14 Pipe - (26)	11.66	0 11:45	12.82	0.91	6.62	0.47	1.50	1.00	29.00	1.41	SURCHARGED
15 Pipe - (27)	13.40	0 11:45	12.46	1.08	7.71	0.49	1.43	0.95	0.00	1.49	> CAPACITY
16 Pipe - (3)	2.24	0 11:05	1.69	1.33	2.86	0.98	1.00	1.00	119.00	0.40	SURCHARGED
17 Pipe - (5)	2.31	0 11:05	2.89	0.80	1.88	0.43	1.25	1.00	113.00	0.29	SURCHARGED
18 Pipe - (6)	2.52	0 11:05	2.89	0.87	2.06	0.20	1.25	1.00	112.00	0.30	SURCHARGED
19 Pipe - (7)	2.87	0 11:05	2.89	0.99	2.33	0.84	1.25	1.00	112.00	0.31	SURCHARGED
20 Pipe - (9)	3.29	0 11:05	2.89	1.14	2.68	0.42	1.25	1.00	110.00	0.30	SURCHARGED

K Street 25-year Flow SWMM Modeling Report

Project Description

File Name K ST - SWMM ANALYSIS MODEL - EXIST 25 YEAR FLOW.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 14, 1971 12:00:00
End Analysis On Jan 15, 1971 12:00:00
Start Reporting On Jan 14, 1971 12:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	23
<i>Junctions</i>	22
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	22
<i>Channels</i>	0
<i>Pipes</i>	22
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	OS-14	Junction	-0.64	2.60	-0.64	2.60	0.00	19.21	2.58	0.00	0.03	0 00:00	0.00	0.00
2	OS-16	Junction	-0.53	2.71	-0.53	2.71	0.00	17.85	2.71	0.00	0.00	0 12:45	0.18	14.00
3	OS-2	Junction	-2.12	1.12	-2.12	1.12	0.00	24.25	-0.94	0.00	2.07	0 00:00	0.00	0.00
4	OS-24	Junction	4.00	5.08	4.00	5.08	0.00	2.53	5.08	0.00	0.00	0 12:45	1.51	128.00
5	OS-25	Junction	4.76	5.84	4.76	5.84	0.00	2.79	5.84	0.00	0.00	0 12:45	0.50	57.00
6	OS-26	Junction	-0.40	2.84	-0.40	2.84	0.00	17.93	2.83	0.00	0.01	0 00:00	0.00	0.00
7	OS-3	Junction	-1.04	2.20	-1.04	2.20	0.00	24.26	0.55	0.00	1.65	0 00:00	0.00	0.00
8	OS-31	Junction	3.03	4.11	3.03	4.11	0.00	6.87	4.11	0.00	0.00	0 12:45	8.79	222.00
9	OS-38	Junction	4.94	6.02	4.94	6.02	0.00	3.97	6.02	0.00	0.00	0 12:45	3.30	119.00
10	OS-4	Junction	-0.98	2.26	-0.98	2.26	0.00	24.29	1.86	0.00	0.40	0 00:00	0.00	0.00
11	OS-41	Junction	5.26	6.34	5.26	6.34	0.00	4.27	6.34	0.00	0.00	0 12:45	0.58	40.00
12	OS-44	Junction	2.92	4.00	2.92	4.00	0.00	4.29	4.00	0.00	0.00	0 12:45	3.26	128.00
13	OS-4A	Junction	3.88	4.96	3.88	4.96	0.00	1.93	4.96	0.00	0.00	0 12:45	0.10	43.00
14	OS-5	Junction	-0.76	2.48	-0.76	2.48	0.00	20.41	2.29	0.00	0.19	0 00:00	0.00	0.00
15	OS-70	Junction	-0.35	2.89	-0.35	2.89	0.00	23.99	2.89	0.00	0.00	0 12:45	12.27	81.00
16	OS-75	Junction	-0.25	2.99	-0.25	2.99	0.00	17.54	2.88	0.00	0.11	0 00:00	0.00	0.00
17	OS-76	Junction	0.27	2.99	0.27	2.99	0.00	30.36	2.99	0.00	0.00	0 12:45	25.39	120.00
18	OS-81	Junction	2.02	4.74	2.02	4.74	0.00	16.16	3.67	0.00	1.07	0 00:00	0.00	0.00
19	OS-83	Junction	1.08	3.80	1.08	3.80	0.00	17.23	3.80	0.00	0.00	0 12:45	4.65	49.00
20	OS-86	Junction	1.70	4.42	1.70	4.42	0.00	4.89	3.86	0.00	0.56	0 00:00	0.00	0.00
21	OS-89	Junction	2.15	4.31	2.15	4.31	0.00	1.60	3.88	0.00	0.43	0 00:00	0.00	0.00
22	OS-92	Junction	3.86	6.02	3.86	6.02	0.00	0.32	4.04	0.00	1.98	0 00:00	0.00	0.00
23	Out-1Pipe - (118)	Outfall	-4.55					24.25	-3.66					

Link Summary

SN Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Reported Surcharged Condition (min)
1	Pipe - (100)	Pipe	OS-31 OS-44	249.54	3.03	2.92	0.0400	12.000	0.0130	1.41	1.59	0.89	1.94	1.00	1.00	139.00 SURCHARGED
2	Pipe - (101)	Pipe	OS-44 OS-83	398.64	2.92	1.08	0.4600	12.000	0.0130	1.78	2.42	0.73	2.34	1.00	1.00	139.00 SURCHARGED
3	Pipe - (103)	Pipe	OS-92 OS-89	227.53	3.86	2.15	0.7500	24.000	0.0130	0.32	19.61	0.02	0.42	0.95	0.48	0.00 Calculated
4	Pipe - (104)	Pipe	OS-89 OS-86	377.37	2.15	1.70	0.1200	24.000	0.0130	1.64	10.12	0.16	0.54	1.87	0.93	0.00 Calculated
5	Pipe - (106)	Pipe	OS-86 OS-83	379.32	1.70	1.08	0.1600	30.000	0.0130	4.90	18.34	0.27	1.03	2.33	0.93	0.00 Calculated
6	Pipe - (107)	Pipe	OS-83 OS-81	381.18	1.08	2.02	-0.2500	30.000	0.0130	8.66	20.37	0.42	2.08	2.07	0.83	0.00 Calculated
7	Pipe - (108)	Pipe	OS-81 OS-76	392.28	2.02	0.27	0.4500	30.000	0.0130	16.11	27.40	0.59	3.70	2.07	0.83	0.00 Calculated
8	Pipe - (109)	Pipe	OS-76 OS-70	370.54	0.27	-0.35	0.1700	30.000	0.0130	10.85	18.34	0.59	2.21	2.50	1.00	130.00 SURCHARGED
9	Pipe - (110)	Pipe	OS-70 OS-75	291.71	-0.35	-0.25	-0.0300	36.000	0.0130	15.65	29.83	0.52	2.25	3.00	1.00	81.00 SURCHARGED
10	Pipe - (111)	Pipe	OS-75 OS-26	193.31	-0.25	-0.40	0.0800	36.000	0.0130	16.52	29.83	0.55	2.42	3.00	1.00	81.00 SURCHARGED
11	Pipe - (112)	Pipe	OS-26 OS-16	204.76	-0.40	-0.53	0.0600	36.000	0.0130	17.23	29.83	0.58	2.52	3.00	1.00	66.00 SURCHARGED
12	Pipe - (113)	Pipe	OS-16 OS-14	264.34	-0.53	-0.64	0.0400	36.000	0.0130	17.18	29.83	0.58	2.54	3.00	1.00	44.00 SURCHARGED
13	Pipe - (114)	Pipe	OS-14 OS-5	254.98	-0.64	-0.76	0.0500	36.000	0.0130	18.56	29.83	0.62	2.80	3.00	1.00	16.00 SURCHARGED
14	Pipe - (115)	Pipe	OS-5 OS-4	361.25	-0.76	-0.98	0.0600	36.000	0.0130	20.39	29.83	0.68	2.93	2.92	0.97	0.00 Calculated
15	Pipe - (116)	Pipe	OS-4 OS-3	410.47	-0.98	-1.04	0.0100	36.000	0.0130	24.26	29.83	0.81	4.34	2.21	0.74	0.00 Calculated
16	Pipe - (117)	Pipe	OS-3 OS-2	138.08	-1.04	-2.12	0.7800	36.000	0.0130	24.25	58.99	0.41	7.61	1.38	0.46	0.00 Calculated
17	Pipe - (118)	Pipe	OS-2 Out-1Pipe - (118)	67.98	-2.12	-4.55	3.5700	36.000	0.0130	24.25	126.10	0.19	11.23	1.03	0.34	0.00 Calculated
18	Pipe - (95)	Pipe	OS-38 OS-25	312.89	4.94	4.76	0.0600	12.000	0.0130	1.36	1.59	0.85	1.83	1.00	1.00	84.00 SURCHARGED
19	Pipe - (96)	Pipe	OS-25 OS-24	305.40	4.76	4.00	0.2500	12.000	0.0130	1.69	1.78	0.95	2.22	1.00	1.00	84.00 SURCHARGED
20	Pipe - (97)	Pipe	OS-41 OS-38	31.57	5.26	4.94	1.0100	12.000	0.0130	2.53	3.59	0.70	3.22	1.00	1.00	47.00 SURCHARGED
21	Pipe - (98)	Pipe	OS-24 OS-4A	64.15	4.00	3.88	0.1900	12.000	0.0130	1.75	1.69	1.10	2.24	1.00	1.00	131.00 SURCHARGED
22	Pipe - (99)	Pipe	OS-4A OS-31	379.38	3.88	3.03	0.2200	12.000	0.0130	1.62	1.69	0.96	2.06	1.00	1.00	131.00 SURCHARGED

25 YEAR FLOW

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	OS-14	-0.64	2.60	3.24	-0.64	0.00	2.60	0.00	0.00	0.00
2	OS-16	-0.53	2.71	3.24	-0.53	0.00	2.71	0.00	0.00	0.00
3	OS-2	-2.12	1.12	3.24	-2.12	0.00	1.12	0.00	0.00	0.00
4	OS-24	4.00	5.08	1.08	4.00	0.00	5.08	0.00	0.00	0.00
5	OS-25	4.76	5.84	1.08	4.76	0.00	5.84	0.00	0.00	0.00
6	OS-26	-0.40	2.84	3.24	-0.40	0.00	2.84	0.00	0.00	0.00
7	OS-3	-1.04	2.20	3.24	-1.04	0.00	2.20	0.00	0.00	0.00
8	OS-31	3.03	4.11	1.08	3.03	0.00	4.11	0.00	0.00	0.00
9	OS-38	4.94	6.02	1.08	4.94	0.00	6.02	0.00	0.00	0.00
10	OS-4	-0.98	2.26	3.24	-0.98	0.00	2.26	0.00	0.00	0.00
11	OS-41	5.26	6.34	1.08	5.26	0.00	6.34	0.00	0.00	0.00
12	OS-44	2.92	4.00	1.08	2.92	0.00	4.00	0.00	0.00	0.00
13	OS-4A	3.88	4.96	1.08	3.88	0.00	4.96	0.00	0.00	0.00
14	OS-5	-0.76	2.48	3.24	-0.76	0.00	2.48	0.00	0.00	0.00
15	OS-70	-0.35	2.89	3.24	-0.35	0.00	2.89	0.00	0.00	0.00
16	OS-75	-0.25	2.99	3.24	-0.25	0.00	2.99	0.00	0.00	0.00
17	OS-76	0.27	2.99	2.72	0.27	0.00	2.99	0.00	0.00	0.00
18	OS-81	2.02	4.74	2.72	2.02	0.00	4.74	0.00	0.00	0.00
19	OS-83	1.08	3.80	2.72	1.08	0.00	3.80	0.00	0.00	0.00
20	OS-86	1.70	4.42	2.72	1.70	0.00	4.42	0.00	0.00	0.00
21	OS-89	2.15	4.31	2.16	2.15	0.00	4.31	0.00	0.00	0.00
22	OS-92	3.86	6.02	2.16	3.86	0.00	6.02	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 OS-14	19.21	5.51	2.58	3.22	0.00	0.03	0.58	1.22	0 12:45	0 00:00	0.00	0.00
2 OS-16	17.85	1.68	2.71	3.24	0.00	0.00	0.71	1.24	0 12:34	0 12:45	0.18	14.00
3 OS-2	24.25	0.00	-0.94	1.18	0.00	2.07	-1.68	0.44	0 12:45	0 00:00	0.00	0.00
4 OS-24	2.53	0.84	5.08	1.08	0.00	0.00	4.41	0.41	0 11:56	0 12:45	1.51	128.00
5 OS-25	2.79	1.98	5.84	1.08	0.00	0.00	5.12	0.36	0 12:07	0 12:45	0.50	57.00
6 OS-26	17.93	3.77	2.83	3.23	0.00	0.01	0.81	1.21	0 12:44	0 00:00	0.00	0.00
7 OS-3	24.26	0.00	0.55	1.59	0.00	1.65	-0.41	0.63	0 12:45	0 00:00	0.00	0.00
8 OS-31	6.87	5.25	4.11	1.08	0.00	0.00	3.62	0.59	0 10:56	0 12:45	8.79	222.00
9 OS-38	3.97	1.44	6.02	1.08	0.00	0.00	5.37	0.43	0 11:56	0 12:45	3.30	119.00
10 OS-4	24.29	3.92	1.86	2.84	0.00	0.40	0.24	1.22	0 12:45	0 00:00	0.00	0.00
11 OS-41	4.27	4.27	6.34	1.08	0.00	0.00	5.51	0.25	0 12:16	0 12:45	0.58	40.00
12 OS-44	4.29	3.59	4.00	1.08	0.00	0.00	3.36	0.44	0 11:54	0 12:45	3.26	128.00
13 OS-4A	1.93	0.65	4.96	1.08	0.00	0.00	4.27	0.39	0 11:57	0 12:45	0.10	43.00
14 OS-5	20.41	2.49	2.29	3.05	0.00	0.19	0.43	1.19	0 12:45	0 00:00	0.00	0.00
15 OS-70	23.99	18.21	2.89	3.24	0.00	0.00	1.02	1.37	0 12:01	0 12:45	12.27	81.00
16 OS-75	17.54	5.22	2.88	3.13	0.00	0.11	0.92	1.17	0 12:44	0 00:00	0.00	0.00
17 OS-76	30.36	14.26	2.99	2.72	0.00	0.00	1.20	0.93	0 11:58	0 12:45	25.39	120.00
18 OS-81	16.16	10.07	3.67	1.65	0.00	1.07	2.52	0.50	0 12:45	0 00:00	0.00	0.00
19 OS-83	17.23	11.59	3.80	2.72	0.00	0.00	2.59	1.51	0 12:11	0 12:45	4.65	49.00
20 OS-86	4.89	3.31	3.86	2.16	0.00	0.56	2.61	0.91	0 12:45	0 00:00	0.00	0.00
21 OS-89	1.60	1.28	3.88	1.73	0.00	0.43	2.62	0.47	0 12:45	0 00:00	0.00	0.00
22 OS-92	0.32	0.32	4.04	0.18	0.00	1.98	3.91	0.05	0 12:45	0 00:00	0.00	0.00

Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate
1 Pipe - (100)	249.54	3.03	0.00	2.92	0.00	0.11	0.0400	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
2 Pipe - (101)	398.64	2.92	0.00	1.08	0.00	1.84	0.4600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
3 Pipe - (103)	227.53	3.86	0.00	2.15	0.00	1.71	0.7500	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No
4 Pipe - (104)	377.37	2.15	0.00	1.70	0.00	0.45	0.1200	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No
5 Pipe - (106)	379.32	1.70	0.00	1.08	0.00	0.62	0.1600	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
6 Pipe - (107)	381.18	1.08	0.00	2.02	0.00	-0.94	-0.2500	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
7 Pipe - (108)	392.28	2.02	0.00	0.27	0.00	1.75	0.4500	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
8 Pipe - (109)	370.54	0.27	0.00	-0.35	0.00	0.62	0.1700	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
9 Pipe - (110)	291.71	-0.35	0.00	-0.25	0.00	-0.10	-0.0300	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
10 Pipe - (111)	193.31	-0.25	0.00	-0.40	0.00	0.15	0.0800	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
11 Pipe - (112)	204.76	-0.40	0.00	-0.53	0.00	0.13	0.0600	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
12 Pipe - (113)	264.34	-0.53	0.00	-0.64	0.00	0.11	0.0400	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
13 Pipe - (114)	254.98	-0.64	0.00	-0.76	0.00	0.12	0.0500	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
14 Pipe - (115)	361.25	-0.76	0.00	-0.98	0.00	0.22	0.0600	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
15 Pipe - (116)	410.47	-0.98	0.00	-1.04	0.00	0.06	0.0100	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
16 Pipe - (117)	138.08	-1.04	0.00	-2.12	0.00	1.08	0.7800	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
17 Pipe - (118)	67.98	-2.12	0.00	-4.55	0.00	2.43	3.5700	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
18 Pipe - (95)	312.89	4.94	0.00	4.76	0.00	0.18	0.0600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
19 Pipe - (96)	305.40	4.76	0.00	4.00	0.00	0.76	0.2500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
20 Pipe - (97)	31.57	5.26	0.00	4.94	0.00	0.32	1.0100	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
21 Pipe - (98)	64.15	4.00	0.00	3.88	0.00	0.12	0.1900	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
22 Pipe - (99)	379.38	3.88	0.00	3.03	0.00	0.85	0.2200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No

Pipe Results

SN Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1 Pipe - (100)	1.41	0 10:56	1.59	0.89	1.94	2.14	1.00	1.00	139.00	0.32	SURCHARGED
2 Pipe - (101)	1.78	0 11:51	2.42	0.73	2.34	2.84	1.00	1.00	139.00	0.15	SURCHARGED
3 Pipe - (103)	0.32	0 12:45	19.61	0.02	0.42	9.03	0.95	0.48	0.00	0.05	Calculated
4 Pipe - (104)	1.64	0 12:46	10.12	0.16	0.54	11.65	1.87	0.93	0.00	0.03	Calculated
5 Pipe - (106)	4.90	0 12:45	18.34	0.27	1.03	6.14	2.33	0.93	0.00	0.02	Calculated
6 Pipe - (107)	8.66	0 13:00	20.37	0.42	2.08	3.05	2.07	0.83	0.00	0.14	Calculated
7 Pipe - (108)	16.11	0 12:45	27.40	0.59	3.70	1.77	2.07	0.83	0.00	0.56	Calculated
8 Pipe - (109)	10.85	0 11:58	18.34	0.59	2.21	2.79	2.50	1.00	130.00	0.22	SURCHARGED
9 Pipe - (110)	15.65	0 11:59	29.83	0.52	2.25	2.16	3.00	1.00	81.00	0.21	SURCHARGED
10 Pipe - (111)	16.52	0 11:59	29.83	0.55	2.42	1.33	3.00	1.00	81.00	0.27	SURCHARGED
11 Pipe - (112)	17.23	0 11:59	29.83	0.58	2.52	1.35	3.00	1.00	66.00	0.25	SURCHARGED
12 Pipe - (113)	17.18	0 12:00	29.83	0.58	2.54	1.73	3.00	1.00	44.00	0.25	SURCHARGED
13 Pipe - (114)	18.56	0 12:02	29.83	0.62	2.80	1.52	3.00	1.00	16.00	0.28	SURCHARGED
14 Pipe - (115)	20.39	0 12:35	29.83	0.68	2.93	2.05	2.92	0.97	0.00	0.27	Calculated
15 Pipe - (116)	24.26	0 12:45	29.83	0.81	4.34	1.58	2.21	0.74	0.00	0.48	Calculated
16 Pipe - (117)	24.25	0 12:45	58.99	0.41	7.61	0.30	1.38	0.46	0.00	1.49	Calculated
17 Pipe - (118)	24.25	0 12:45	126.10	0.19	11.23	0.10	1.03	0.34	0.00	2.43	Calculated
18 Pipe - (95)	1.36	0 11:56	1.59	0.85	1.83	2.85	1.00	1.00	84.00	0.30	SURCHARGED
19 Pipe - (96)	1.69	0 12:34	1.78	0.95	2.22	2.29	1.00	1.00	84.00	0.46	SURCHARGED
20 Pipe - (97)	2.53	0 12:33	3.59	0.70	3.22	0.16	1.00	1.00	47.00	0.36	SURCHARGED
21 Pipe - (98)	1.75	0 11:57	1.59	1.10	2.24	0.48	1.00	1.00	131.00	0.44	SURCHARGED
22 Pipe - (99)	1.62	0 12:26	1.69	0.96	2.06	3.07	1.00	1.00	131.00	0.25	SURCHARGED

Adams Street 25-year Flow SWMM Modeling Report (Excluding Outside)

Project Description

File Name ADAMS STREET PUMP STATION BASIN - EXCLUDING THE PORTIONS OUTSIDE LEVEE_EX 25 YEAR

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Dec 22, 1961 06:30:00
End Analysis On Dec 23, 1961 06:30:00
Start Reporting On Dec 22, 1961 06:30:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	95
<i>Junctions</i>	94
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	93
<i>Channels</i>	0
<i>Pipes</i>	93
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

FLOW .SPF

Node Summary

SN Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
88 SD-79A	Junction	7.02	14.39	7.02	14.39	0.00	7.47	13.65	0.00	0.75	0 00:00	0.00	0.00
89 SD-8	Junction	0.92	9.79	0.92	9.79	0.00	3.14	7.37	0.00	2.42	0 00:00	0.00	0.00
90 SD-80	Junction	9.46	13.86	9.46	13.86	0.00	2.93	13.86	0.00	0.00	0 11:14	0.00	0.00
91 SD-80A	Junction	8.56	13.76	8.56	13.76	0.00	15.05	13.76	0.00	0.00	0 11:30	6.88	85.00
92 SD-81	Junction	3.95	10.41	3.95	10.41	0.00	1.05	10.41	0.00	0.00	0 11:06	0.00	0.00
93 SD-9	Junction	0.18	10.03	0.18	10.03	0.00	3.43	5.56	0.00	4.46	0 00:00	0.00	0.00
94 SD-91	Junction	4.00	11.26	4.00	11.26	0.00	0.86	4.44	0.00	6.83	0 00:00	0.00	0.00
95 DUMMY-MH	Outfall	-6.00					47.25	-3.74					

Link Summary

SN Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Reported Surcharged Condition
				(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)
57 Pipe - (61)	Pipe	SD-78	SD-77	28.68	0.92	-0.24	4.0400	24.000	0.0130	13.85	45.50	0.30	4.41	2.00	1.00	74.00 SURCHARGED
58 Pipe - (62)	Pipe	SD-77	SD-76	144.33	-0.24	-0.48	0.1700	27.000	0.0130	25.72	13.85	1.86	6.47	2.25	1.00	55.00 SURCHARGED
59 Pipe - (63)	Pipe	SD-76	NODE-22	223.98	-0.48	-1.62	0.5100	30.000	0.0130	28.31	29.26	0.97	5.77	2.50	1.00	22.00 SURCHARGED
60 Pipe - (64)	Pipe	SD-74	PS	77.02	-2.32	-5.14	3.6600	36.000	0.0130	31.35	127.62	0.25	5.70	2.63	0.88	0.00 Calculated
61 Pipe - (65)	Pipe	SD-73	PS	59.39	-5.14	-5.14	0.0000	36.000	0.0130	16.78	29.83	0.56	2.37	3.00	1.00	81.00 SURCHARGED
62 Pipe - (66)	Pipe	SD-10	NODE-21	73.71	1.28	0.97	0.4200	21.000	0.0130	9.68	10.29	0.94	4.02	1.75	1.00	86.00 SURCHARGED
63 Pipe - (66) (1)	Pipe	NODE-21	SD-77	286.95	0.97	-0.24	0.4200	21.000	0.0130	10.08	10.29	0.98	4.19	1.75	1.00	90.00 SURCHARGED
64 Pipe - (67)	Pipe	NODE-5	SD-10	179.84	1.86	1.28	0.3200	21.000	0.0130	9.39	9.00	1.04	3.91	1.75	1.00	80.00 SURCHARGED
65 Pipe - (68)	Pipe	SD-78A	SD-76B	173.98	6.52	5.48	0.6000	18.000	0.0130	8.12	8.12	1.00	4.59	1.50	1.00	202.00 SURCHARGED
66 Pipe - (69)	Pipe	NODE-22	SD-74	138.16	-1.62	-2.32	0.5100	30.000	0.0130	31.69	29.20	1.09	8.61	2.38	0.95	0.00 > CAPACITY
67 Pipe - (71)	Pipe	SD-72	SD-73	255.30	-4.83	-5.14	0.1200	33.000	0.0130	16.77	23.65	0.71	2.82	2.75	1.00	85.00 SURCHARGED
68 Pipe - (73)	Pipe	NODE-15B	SD-8	38.10	1.03	0.92	0.2900	12.000	0.0130	3.14	1.91	1.64	4.00	1.00	1.00	94.00 SURCHARGED
69 Pipe - (74)	Pipe	NODE-15A	NODE-15B	226.88	1.71	1.03	0.3000	12.000	0.0130	2.93	1.95	1.50	3.74	1.00	1.00	86.00 SURCHARGED
70 Pipe - (75)	Pipe	NODE-13	NODE-14	41.97	2.04	1.91	0.3100	12.000	0.0130	2.16	1.98	1.09	2.75	1.00	1.00	83.00 SURCHARGED
71 Pipe - (76)	Pipe	NODE-14	NODE-15A	67.54	1.91	1.71	0.3000	12.000	0.0130	2.73	1.94	1.41	3.47	1.00	1.00	85.00 SURCHARGED
72 Pipe - (77)	Pipe	NODE-11	NODE-12	41.35	2.77	2.65	0.2900	12.000	0.0130	2.39	1.92	1.25	3.04	1.00	1.00	72.00 SURCHARGED
73 Pipe - (78)	Pipe	NODE-12	NODE-13	204.16	2.65	2.04	0.3000	12.000	0.0130	2.05	1.95	1.05	2.61	1.00	1.00	73.00 SURCHARGED
74 Pipe - (79)	Pipe	SD-8	NODE-16A	108.51	0.92	0.66	0.2400	12.000	0.0130	3.14	1.74	1.80	4.00	1.00	1.00	90.00 SURCHARGED
75 Pipe - (80)	Pipe	NODE-16A	NODE-16B	71.40	0.66	0.49	0.2400	12.000	0.0130	3.27	1.74	1.88	4.17	1.00	1.00	76.00 SURCHARGED
76 Pipe - (81)	Pipe	NODE-16B	SD-9	127.30	0.49	0.18	0.2400	12.000	0.0130	3.40	1.76	1.94	4.33	1.00	1.00	60.00 SURCHARGED
77 Pipe - (82)	Pipe	SD-9	SD-60	279.82	0.18	-0.80	0.3500	15.000	0.0130	3.38	3.82	0.88	3.29	1.25	1.00	56.00 SURCHARGED
78 Pipe - (83)	Pipe	SD-60	NODE 25	109.17	-0.80	-1.70	0.8200	15.000	0.0130	4.46	5.87	0.76	4.46	1.25	1.00	65.00 SURCHARGED
79 Pipe - (84)	Pipe	NODE 25	NODE-24	245.49	-1.70	-3.71	0.8200	15.000	0.0130	4.87	5.85	0.83	3.97	1.25	1.00	75.00 SURCHARGED
80 Pipe - (85)	Pipe	NODE-24	SD-70	48.58	-3.71	-4.12	0.8400	15.000	0.0130	5.42	5.93	0.91	4.42	1.25	1.00	203.00 SURCHARGED
81 Pipe - (86)	Pipe	SD-70	NODE-23	51.28	-4.12	-4.22	0.1900	33.000	0.0130	16.76	23.65	0.71	2.82	2.75	1.00	73.00 SURCHARGED
82 Pipe - (87)	Pipe	NODE-23	SD-72	316.28	-4.22	-4.83	0.1900	33.000	0.0130	16.77	23.65	0.71	2.82	2.75	1.00	73.00 SURCHARGED
83 Pipe - (88)	Pipe	CBSD-22	NODE-6	239.33	5.74	4.26	0.6200	15.000	0.0130	3.69	5.08	0.73	3.61	1.25	1.00	9.00 SURCHARGED
84 Pipe - (89)	Pipe	NODE-6	SD-15	79.46	4.26	3.76	0.6300	15.000	0.0130	4.30	5.12	0.84	3.50	1.25	1.00	14.00 SURCHARGED
85 Pipe - (90)	Pipe	SD-15	NODE-7	41.00	3.76	3.52	0.5900	15.000	0.0130	4.31	4.94	0.87	3.51	1.25	1.00	15.00 SURCHARGED
86 Pipe - (91)	Pipe	NODE-7	NODE-8	232.34	3.52	2.18	0.5800	15.000	0.0130	5.17	4.91	1.05	4.22	1.25	1.00	15.00 SURCHARGED
87 Pipe - (92)	Pipe	NODE-8	SD-7	31.53	2.18	2.00	0.5700	15.000	0.0130	5.49	4.88	1.12	4.47	1.25	1.00	16.00 SURCHARGED
88 Pipe - (93)	Pipe	SD-7	NODE-9	77.64	2.00	1.57	0.5500	18.000	0.0130	5.47	7.82	0.70	3.94	1.50	1.00	13.00 SURCHARGED
89 Pipe - (94)	Pipe	NODE-9	NODE-10	230.06	1.57	0.29	0.5600	18.000	0.0130	5.87	7.85	0.75	3.32	1.50	1.00	16.00 SURCHARGED
90 Pipe - (95)	Pipe	NODE-10	SD-12	36.83	0.29	0.08	0.5600	18.000	0.0130	5.98	7.84	0.76	3.38	1.50	1.00	52.00 SURCHARGED
91 Pipe - (96)	Pipe	SD-77A	SD-76A	77.73	5.96	5.25	0.9100	18.000	0.0130	0.79	10.04	0.08	0.77	1.50	1.00	162.00 SURCHARGED
92 Pipe - (97)	Pipe	SD-81	NODE-5B	146.12	3.95	3.15	0.5500	12.000	0.0130	0.80	2.64	0.30	1.18	1.00	1.00	101.00 SURCHARGED
93 Pipe - (98)	Pipe	NODE-5B	SD-75	63.81	3.15	2.80	0.5500	12.000	0.0130	0.80	2.64	0.30	1.02	1.00	1.00	275.00 SURCHARGED

Junction Input

SN	Element ID	Invert Elevation	Ground/Rim (Max) Elevation	Ground/Rim (Max) Offset	Initial Water Elevation	Initial Water Depth	Surcharge Elevation	Surcharge Depth	Ponded Area	Minimum Pipe Cover
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft ²)	(in)
1	CBSD-22	5.74	10.00	4.26	5.74	0.00	10.00	0.00	0.00	0.00
2	CBSD-29	48.55	50.00	1.45	48.55	0.00	50.00	0.00	0.00	0.00
3	NODE 25	-1.70	9.81	11.51	-1.70	0.00	9.81	0.00	0.00	0.00
4	NODE-1	38.31	48.68	10.37	38.31	0.00	48.68	0.00	0.00	0.00
5	NODE-10	0.29	9.84	9.55	0.29	0.00	9.84	0.00	0.00	0.00
6	NODE-11	2.77	10.15	7.38	2.77	0.00	10.15	0.00	0.00	0.00
7	NODE-12	2.65	9.62	6.97	2.65	0.00	9.62	0.00	0.00	0.00
8	NODE-13	2.04	8.84	6.80	2.04	0.00	8.84	0.00	0.00	0.00
9	NODE-14	1.91	9.08	7.17	1.91	0.00	9.08	0.00	0.00	0.00
10	NODE-15A	1.71	8.89	7.18	1.71	0.00	8.89	0.00	0.00	0.00
11	NODE-15B	1.03	9.35	8.32	1.03	0.00	9.35	0.00	0.00	0.00
12	NODE-16A	0.66	9.43	8.77	0.66	0.00	9.43	0.00	0.00	0.00
13	NODE-16B	0.49	9.59	9.10	0.49	0.00	9.59	0.00	0.00	0.00
14	NODE-17	2.48	10.06	7.58	2.48	0.00	10.06	0.00	0.00	0.00
15	NODE-18	6.65	11.32	4.67	6.65	0.00	11.32	0.00	0.00	0.00
16	NODE-18A	4.36	10.18	5.82	4.36	0.00	10.18	0.00	0.00	0.00
17	NODE-18B	1.89	9.97	8.08	1.89	0.00	9.97	0.00	0.00	0.00
18	NODE-19	4.97	9.90	4.93	4.97	0.00	9.90	0.00	0.00	0.00
19	NODE-19A	3.68	10.37	6.69	3.68	0.00	10.37	0.00	0.00	0.00
20	NODE-19B	1.56	9.83	8.27	1.56	0.00	9.83	0.00	0.00	0.00
21	NODE-2	31.09	35.59	4.50	31.09	0.00	35.59	0.00	0.00	0.00
22	NODE-20	2.49	10.63	8.14	2.49	0.00	10.63	0.00	0.00	0.00
23	NODE-20A	2.95	10.14	7.19	2.95	0.00	10.14	0.00	0.00	0.00
24	NODE-20B	1.07	9.83	8.76	1.07	0.00	9.83	0.00	0.00	0.00
25	NODE-21	0.97	9.77	8.80	0.97	0.00	9.77	0.00	0.00	0.00
26	NODE-22	-1.62	10.38	12.00	-1.62	0.00	10.38	0.00	0.00	0.00
27	NODE-23	-4.22	9.30	13.52	-4.22	0.00	9.30	0.00	0.00	0.00
28	NODE-24	-3.71	9.77	13.48	-3.71	0.00	9.77	0.00	0.00	0.00
29	NODE-26	0.39	10.11	9.73	0.39	0.00	10.11	0.00	0.00	0.00
30	NODE-27	0.14	10.05	9.91	0.14	0.00	10.05	0.00	0.00	0.00
31	NODE-28	-1.12	9.32	10.44	-1.12	0.00	9.32	0.00	0.00	0.00
32	NODE-29	-1.93	9.67	11.60	-1.93	0.00	9.67	0.00	0.00	0.00
33	NODE-3	2.82	9.76	6.94	2.82	0.00	9.76	0.00	0.00	0.00
34	NODE-30	-2.67	9.60	12.27	-2.67	0.00	9.60	0.00	0.00	0.00
35	NODE-31	-2.73	10.23	12.96	-2.73	0.00	10.23	0.00	0.00	0.00
36	NODE-32	-2.43	10.40	12.83	-2.43	0.00	10.40	0.00	0.00	0.00
37	NODE-33	-2.03	10.06	12.09	-2.03	0.00	10.06	0.00	0.00	0.00
38	NODE-34	-1.26	10.05	11.31	-1.26	0.00	10.05	0.00	0.00	0.00
39	NODE-35	-0.90	10.33	11.23	-0.90	0.00	10.33	0.00	0.00	0.00
40	NODE-36	-0.53	10.61	11.14	-0.53	0.00	10.61	0.00	0.00	0.00
41	NODE-37	-0.17	10.74	10.91	-0.17	0.00	10.74	0.00	0.00	0.00
42	NODE-38	0.40	11.28	10.88	0.40	0.00	11.28	0.00	0.00	0.00
43	NODE-39	0.89	11.70	10.81	0.89	0.00	11.70	0.00	0.00	0.00
44	NODE-4	2.22	9.84	7.62	2.22	0.00	9.84	0.00	0.00	0.00
45	NODE-40	1.70	11.81	10.11	1.70	0.00	11.81	0.00	0.00	0.00
46	NODE-5	1.86	10.79	8.93	1.86	0.00	10.79	0.00	0.00	0.00
47	NODE-5B	3.15	10.17	7.02	3.15	0.00	10.17	0.00	0.00	0.00
48	NODE-6	4.26	9.22	4.96	4.26	0.00	9.22	0.00	0.00	0.00
49	NODE-7	3.52	8.86	5.34	3.52	0.00	8.86	0.00	0.00	0.00
50	NODE-8	2.18	9.00	6.82	2.18	0.00	9.00	0.00	0.00	0.00
51	NODE-9	1.57	9.02	7.45	1.57	0.00	9.02	0.00	0.00	0.00
52	Out-1Pipe - (71)	-5.14	0.86	6.00	-5.14	0.00	0.86	0.00	0.00	0.00
53	PS	-5.14	11.64	16.78	-5.14	0.00	11.64	0.00	0.00	0.00
54	SD-10	1.28	10.14	8.86	1.28	0.00	10.14	0.00	0.00	0.00
55	SD-11	2.35	9.85	7.50	2.35	0.00	9.85	0.00	0.00	0.00
56	SD-12	0.08	10.68	10.60	0.08	0.00	10.68	0.00	0.00	0.00
57	SD-15	3.76	9.27	5.51	3.76	0.00	9.27	0.00	0.00	0.00
58	SD-17	4.08	9.88	5.80	4.08	0.00	9.88	0.00	0.00	0.00
59	SD-18	4.02	9.91	5.89	4.02	0.00	9.91	0.00	0.00	0.00
60	SD-26	4.65	10.68	6.03	4.65	0.00	10.68	0.00	0.00	0.00
61	SD-27	6.08	12.02	5.94	6.08	0.00	12.02	0.00	0.00	0.00
62	SD-28	7.98	12.84	4.86	7.98	0.00	12.84	0.00	0.00	0.00
63	SD-56	-0.72	10.13	10.85	-0.72	0.00	10.13	0.00	0.00	0.00
64	SD-57	0.45	9.84	9.39	0.45	0.00	9.84	0.00	0.00	0.00
65	SD-58	-1.74	10.27	12.01	-1.74	0.00	10.27	0.00	0.00	0.00
66	SD-60	-0.80	10.18	10.98	-0.80	0.00	10.18	0.00	0.00	0.00
67	SD-63	1.90	12.10	10.20	1.90	0.00	12.10	0.00	0.00	0.00
68	SD-65	0.66	11.90	11.24	0.66	0.00	11.90	0.00	0.00	0.00
69	SD-66	-0.42	10.85	11.27	-0.42	0.00	10.85	0.00	0.00	0.00
70	SD-67	-1.05	10.00	11.05	-1.05	0.00	10.00	0.00	0.00	0.00
71	SD-68	-2.28	10.35	12.63	-2.28	0.00	10.35	0.00	0.00	0.00
72	SD-69	-2.85	10.34	13.19	-2.85	0.00	10.34	0.00	0.00	0.00
73	SD-7	2.00	9.48	7.48	2.00	0.00	9.48	0.00	0.00	0.00
74	SD-70	-4.12	10.20	14.32	-4.12	0.00	10.20	0.00	0.00	0.00
75	SD-71	3.30	12.56	9.26	3.30	0.00	12.56	0.00	0.00	0.00
76	SD-72	-4.83	9.83	14.66	-4.83	0.00	9.83	0.00	0.00	0.00
77	SD-73	-5.14	10.72	15.86	-5.14	0.00	10.72	0.00	0.00	0.00
78	SD-74	-2.32	11.35	13.67	-2.32	0.00	11.35	0.00	0.00	0.00
79	SD-75	2.80	10.22	7.42	2.80	0.00	10.22	0.00	0.00	0.00
80	SD-76	-0.48	9.34	9.82	-0.48	0.00	9.34	0.00	0.00	0.00
81	SD-76A	5.25	12.28	7.03	5.25	0.00	12.28	0.00	0.00	0.00
82	SD-76B	5.48	14.93	9.45	5.48	0.00	14.93	0.00	0.00	0.00
83	SD-77	-0.24	9.76	10.00	-0.24	0.00	9.76	0.00	0.00	0.00
84	SD-77A	5.96	12.94	6.98	5.96	0.00	12.94	0.00	0.00	0.00
85	SD-78	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00
86	SD-78A	6.52	14.61	8.09	6.52	0.00	14.61	0.00	0.00	0.00
87	SD-79	2.14	10.86	8.72	2.14	0.00	10.86	0.00	0.00	0.00
88	SD-79A	7.02	14.39	7.37	7.02	0.00	14.39	0.00	0.00	0.00

Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
89 SD-8	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00
90 SD-80	9.46	13.86	4.40	9.46	0.00	13.86	0.00	0.00	0.00
91 SD-80A	8.56	13.76	5.20	8.56	0.00	13.76	0.00	0.00	0.00
92 SD-81	3.95	10.41	6.46	3.95	0.00	10.41	0.00	0.00	0.00
93 SD-9	0.18	10.03	9.85	0.18	0.00	10.03	0.00	0.00	0.00
94 SD-91	4.00	11.26	7.26	4.00	0.00	11.26	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
88 SD-79A	7.47	2.00	13.65	6.63	0.00	0.75	8.65	1.63	0 11:05	0 00:00	0.00	0.00
89 SD-8	3.14	0.00	7.37	6.45	0.00	2.42	1.77	0.85	0 11:19	0 00:00	0.00	0.00
90 SD-80	2.93	2.93	13.86	4.40	0.00	0.00	9.86	0.40	0 11:14	0 11:14	0.00	0.00
91 SD-80A	15.05	15.05	13.76	5.20	0.00	0.00	9.89	1.33	0 11:05	0 11:30	6.88	85.00
92 SD-81	1.05	0.62	10.41	6.46	0.00	0.00	4.55	0.60	0 11:06	0 11:06	0.00	0.00
93 SD-9	3.43	0.03	5.56	5.38	0.00	4.46	0.76	0.58	0 11:19	0 00:00	0.00	0.00
94 SD-91	0.86	0.86	4.44	0.44	0.00	6.83	4.20	0.20	0 11:30	0 00:00	0.00	0.00

Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate
89 Pipe - (94)	230.06	1.57	0.00	0.29	0.00	1.29	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
90 Pipe - (95)	36.83	0.29	0.00	0.08	0.00	0.21	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
91 Pipe - (96)	77.73	5.96	0.00	5.25	0.00	0.71	0.9100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
92 Pipe - (97)	146.12	3.95	0.00	3.15	0.00	0.80	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
93 Pipe - (98)	63.81	3.15	0.00	2.80	0.00	0.35	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No

No. of
Barrels

1
1
1
1
1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	OUTFALL-PIPE	47.25	0 11:34	32.09	1.47	9.80	0.24	2.38	0.95	0.00	0.96	> CAPACITY
2	Pipe - (102)	5.93	0 11:30	10.67	0.56	2.46	0.55	1.75	1.00	17.00	0.27	SURCHARGED
3	Pipe - (103)	5.85	0 11:31	12.77	0.46	3.19	0.05	1.75	1.00	17.00	0.74	SURCHARGED
4	Pipe - (104)	6.00	0 11:31	12.95	0.46	3.89	0.16	1.75	1.00	17.00	0.92	SURCHARGED
5	Pipe - (105)	6.55	0 11:31	12.95	0.51	3.63	0.59	1.75	1.00	20.00	0.82	SURCHARGED
6	Pipe - (106)	6.54	0 11:31	8.33	0.79	2.92	0.83	1.75	1.00	43.00	0.60	SURCHARGED
7	Pipe - (107)	7.48	0 11:31	8.30	0.90	3.11	1.21	1.75	1.00	49.00	0.61	SURCHARGED
8	Pipe - (108)	7.48	0 11:31	8.75	0.85	3.11	0.33	1.75	1.00	57.00	0.61	SURCHARGED
9	Pipe - (109)	8.03	0 11:31	8.71	0.92	3.34	1.22	1.75	1.00	58.00	0.61	SURCHARGED
10	Pipe - (110)	8.34	0 11:31	8.84	0.94	3.47	0.28	1.75	1.00	68.00	0.58	SURCHARGED
11	Pipe - (135)	11.49	0 11:38	23.79	0.48	2.38	2.64	2.50	1.00	50.00	0.43	SURCHARGED
12	Pipe - (136)	0.85	0 11:30	5.25	0.16	2.66	1.75	0.35	0.24	0.00	0.80	Calculated
13	Pipe - (137)	0.84	0 11:31	11.82	0.07	1.95	0.95	0.44	0.29	0.00	0.62	Calculated
14	Pipe - (138)	1.87	0 11:30	9.46	0.20	2.64	0.35	0.58	0.34	0.00	0.72	Calculated
15	Pipe - (139)	2.14	0 11:31	9.51	0.22	2.69	1.39	0.63	0.37	0.00	0.73	Calculated
16	Pipe - (140)	2.41	0 11:31	9.51	0.25	2.56	0.41	0.78	0.46	0.00	0.69	Calculated
17	Pipe - (141)	2.41	0 11:32	8.07	0.30	2.63	0.63	0.94	0.56	0.00	0.65	Calculated
18	Pipe - (142)	2.55	0 11:30	8.08	0.32	2.44	1.50	1.28	0.76	0.00	0.62	Calculated
19	Pipe - (143)	2.98	0 11:43	8.08	0.37	2.37	0.67	1.64	0.95	0.00	0.59	Calculated
20	Pipe - (144)	3.16	0 11:43	10.12	0.31	2.10	0.52	1.81	0.92	0.00	0.49	Calculated
21	Pipe - (145)	3.65	0 11:43	10.12	0.36	2.21	1.63	1.93	0.97	0.00	0.51	Calculated
22	Pipe - (146)	4.11	0 11:43	10.12	0.41	2.43	0.70	2.00	1.00	9.00	0.55	SURCHARGED
23	Pipe - (147)	4.26	0 11:44	13.57	0.31	2.91	0.33	2.00	1.00	12.00	0.71	SURCHARGED
24	Pipe - (148)	4.45	0 11:45	13.57	0.33	2.75	1.30	2.00	1.00	14.00	0.71	SURCHARGED
25	Pipe - (149)	4.57	0 11:45	13.79	0.33	2.26	0.50	2.00	1.00	43.00	0.56	SURCHARGED
26	Pipe - (150)	4.57	0 11:45	13.85	0.33	1.84	0.94	2.25	1.00	42.00	0.44	SURCHARGED
27	Pipe - (151)	4.74	0 11:45	13.85	0.34	1.66	2.16	2.25	1.00	46.00	0.40	SURCHARGED
28	Pipe - (152)	5.01	0 11:45	13.85	0.36	1.64	0.90	2.25	1.00	54.00	0.32	SURCHARGED
29	Pipe - (28)	1.87	0 11:30	12.13	0.15	9.13	0.16	0.31	0.31	0.00	3.39	Calculated
30	Pipe - (29)	2.68	0 11:30	12.13	0.22	11.53	0.09	0.34	0.34	0.00	4.06	Calculated
31	Pipe - (30)	2.72	0 11:30	12.13	0.22	5.22	0.64	0.66	0.66	0.00	1.86	Calculated
32	Pipe - (32)	4.68	0 11:18	7.96	0.59	7.02	0.09	1.00	1.00	57.00	1.78	SURCHARGED
33	Pipe - (33)	4.75	0 11:29	6.68	0.71	3.87	0.58	1.25	1.00	66.00	0.85	SURCHARGED
34	Pipe - (34)	5.14	0 11:15	4.14	1.24	4.19	0.61	1.25	1.00	78.00	0.42	SURCHARGED
35	Pipe - (35)	5.99	0 11:15	2.91	2.06	4.88	0.10	1.25	1.00	72.00	0.50	SURCHARGED
36	Pipe - (36)	7.00	0 11:15	7.87	0.89	3.96	0.94	1.50	1.00	70.00	0.80	SURCHARGED
37	Pipe - (37)	7.48	0 11:15	7.91	0.95	4.23	0.33	1.50	1.00	78.00	0.64	SURCHARGED
38	Pipe - (38)	7.65	0 11:15	8.79	0.87	3.18	0.22	1.75	1.00	76.00	0.54	SURCHARGED
39	Pipe - (39)	7.97	0 11:21	9.11	0.87	3.31	0.55	1.75	1.00	77.00	0.57	SURCHARGED
40	Pipe - (40)	6.59	0 11:05	7.43	0.89	3.73	1.38	1.50	1.00	186.00	0.54	SURCHARGED
41	Pipe - (41)	7.47	0 11:05	5.89	1.27	4.23	0.63	1.50	1.00	202.00	0.55	SURCHARGED
42	Pipe - (44)	8.12	0 11:05	8.20	0.99	4.59	0.14	1.50	1.00	207.00	0.57	SURCHARGED
43	Pipe - (45)	8.16	0 11:05	7.43	1.10	4.62	0.64	1.50	1.00	207.00	0.59	SURCHARGED
44	Pipe - (46)	8.36	0 11:05	7.38	1.13	4.73	0.49	1.50	1.00	218.00	0.58	SURCHARGED
45	Pipe - (47)	8.54	0 11:05	7.42	1.15	4.83	0.51	1.50	1.00	227.00	0.48	SURCHARGED
46	Pipe - (48)	8.68	0 11:05	7.57	1.15	4.91	0.10	1.50	1.00	225.00	0.41	SURCHARGED
47	Pipe - (51)	8.99	0 11:06	10.39	0.87	2.86	0.88	2.00	1.00	121.00	0.39	SURCHARGED
48	Pipe - (52)	9.99	0 11:06	10.51	0.95	3.18	0.83	2.00	1.00	145.00	0.35	SURCHARGED
49	Pipe - (53)	2.93	0 11:30	4.35	0.67	3.74	0.84	1.00	1.00	54.00	0.95	SURCHARGED
50	Pipe - (54)	3.56	0 11:14	4.34	0.82	5.11	0.37	1.00	1.00	77.00	1.26	SURCHARGED
51	Pipe - (55)	3.85	0 11:14	4.35	0.88	4.90	0.57	1.00	1.00	88.00	0.78	SURCHARGED
52	Pipe - (56)	4.28	0 11:14	4.31	0.99	5.45	0.07	1.00	1.00	347.00	0.21	SURCHARGED
53	Pipe - (57)	13.85	0 11:19	11.46	1.21	4.41	0.37	2.00	1.00	115.00	0.44	SURCHARGED
54	Pipe - (58)	13.84	0 11:19	11.48	1.21	4.41	0.48	2.00	1.00	92.00	0.48	SURCHARGED
55	Pipe - (59)	13.84	0 11:19	11.47	1.21	4.41	0.72	2.00	1.00	85.00	0.55	SURCHARGED
56	Pipe - (60)	13.85	0 11:19	11.64	1.19	5.42	0.17	2.00	1.00	74.00	0.99	SURCHARGED
57	Pipe - (61)	13.85	0 11:19	45.50	0.30	4.41	0.11	2.00	1.00	74.00	0.62	SURCHARGED
58	Pipe - (62)	25.72	0 11:22	13.85	1.86	6.47	0.37	2.25	1.00	55.00	0.59	SURCHARGED
59	Pipe - (63)	28.31	0 11:30	29.26	0.97	5.77	0.65	2.50	1.00	22.00	0.81	SURCHARGED
60	Pipe - (64)	31.35	0 11:30	127.62	0.25	5.70	0.23	2.63	0.88	0.00	1.00	Calculated
61	Pipe - (65)	16.78	0 11:36	29.83	0.56	2.37	0.42	3.00	1.00	81.00	0.19	SURCHARGED
62	Pipe - (66)	9.68	0 11:22	10.29	0.94	4.02	0.31	1.75	1.00	86.00	0.63	SURCHARGED
63	Pipe - (66) (1)	10.08	0 11:29	10.29	0.98	4.19	1.14	1.75	1.00	90.00	0.29	SURCHARGED
64	Pipe - (67)	9.39	0 11:22	9.00	1.04	3.91	0.77	1.75	1.00	80.00	0.60	SURCHARGED
65	Pipe - (68)	8.12	0 11:06	8.12	1.00	4.59	0.63	1.50	1.00	202.00	0.61	SURCHARGED
66	Pipe - (69)	31.69	0 11:30	29.20	1.09	8.61	0.27	2.38	0.95	0.00	1.42	> CAPACITY
67	Pipe - (71)	16.77	0 11:36	23.65	0.71	2.82	1.51	2.75	1.00	85.00	0.24	SURCHARGED
68	Pipe - (73)	3.14	0 11:19	1.91	1.64	4.00	0.16	1.00	1.00	94.00	0.43	SURCHARGED
69	Pipe - (74)	2.93	0 11:19	1.95	1.50	3.74	1.01	1.00	1.00	86.00	0.48	SURCHARGED
70	Pipe - (75)	2.16	0 11:19	1.98	1.09	2.75	0.25	1.00	1.00	83.00	0.44	SURCHARGED
71	Pipe - (76)	2.73	0 11:19	1.94	1.41	3.47	0.32	1.00	1.00	85.00	0.53	SURCHARGED
72	Pipe - (77)	2.39	0 11:29	1.92	1.25	3.04	0.23	1.00	1.00	72.00	0.53	SURCHARGED
73	Pipe - (78)	2.05	0 11:26	1.95	1.05	2.61	1.30	1.00	1.00	73.00	0.51	SURCHARGED
74	Pipe - (79)	3.14	0 11:19	1.74	1.80	4.00	0.45	1.00	1.00	90.00	0.43	SURCHARGED
75	Pipe - (80)	3.27	0 11:19	1.74	1.88	4.17	0.29	1.00	1.00	76.00	0.43	SURCHARGED
76	Pipe - (81)	3.40	0 11:19	1.76	1.94	4.33	0.49	1.00	1.00	60.00	0.59	SURCHARGED
77	Pipe - (82)	3.38	0 11:19	3.82	0.88	3.29	1.42	1.25	1.00	56.00	0.73	SURCHARGED
78	Pipe - (83)	4.46	0 11:25	5.87	0.76	4.46	0.41	1.25	1.00	65.00	1.00	SURCHARGED
79	Pipe - (84)	4.87	0 11:29	5.85	0.83	3.97	1.03	1.25	1.00	75.00	0.80	SURCHARGED
80	Pipe - (85)	5.42	0 11:29	5.93	0.91	4.42	0.18	1.25	1.00	203.00	0.34	SURCHARGED
81	Pipe - (86)	16.76	0 11:36	23.65	0.71	2.82	0.30	2.75	1.00	73.00	0.46	SURCHARGED
82	Pipe - (87)	16.77	0 11:36	23.65	0.71	2.82	1.87	2.75	1.00	73.00	0.38	SURCHARGED
83	Pipe - (88)	3.69	0 11:30	5.08	0.73	3.61	1.10	1.25	1.00	9.00	0.91	SURCHARGED
84	Pipe - (89)	4.30	0 11:30	5.12	0.84	3.50	0.38	1.25	1.00	14.00	0.86	SURCHARGED
85	Pipe - (90)	4.31	0 11:30	4.94	0.87	3.51	0.19	1.25	1.00	15.00	0.82	SURCHARGED
86	Pipe - (91)	5.17	0 11:30	4.91	1.05	4.22	0.92	1.25	1.00	15.00	0.83	SURCHARGED
87	Pipe - (92)	5.49	0 11:30	4.88	1.12	4.47	0.12	1.25	1.00	16.00	0.84	SURCHARGED

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
88 Pipe - (93)	5.47	0 11:30	7.82	0.70	3.94	0.33	1.50	1.00	13.00	0.91	SURCHARGED
89 Pipe - (94)	5.87	0 11:30	7.85	0.75	3.32	1.15	1.50	1.00	16.00	0.45	SURCHARGED
90 Pipe - (95)	5.98	0 11:30	7.84	0.76	3.38	0.18	1.50	1.00	52.00	0.19	SURCHARGED
91 Pipe - (96)	0.79	0 11:05	10.04	0.08	0.77	1.68	1.50	1.00	162.00	0.01	SURCHARGED
92 Pipe - (97)	0.80	0 11:06	2.64	0.30	1.18	2.06	1.00	1.00	101.00	0.20	SURCHARGED
93 Pipe - (98)	0.80	0 11:06	2.64	0.30	1.02	1.04	1.00	1.00	275.00	0.03	SURCHARGED

Adams Street 25-year Flow SWMM Modeling Report (Including Outside)

Project Description

File Name ADAMS STREET PUMP STATION BASIN - INCLUDING THE PORTIONS OUTSIDE LEVEE_EX 25 YEAR I

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Dec 22, 1961 06:30:00
End Analysis On Dec 23, 1961 06:30:00
Start Reporting On Dec 22, 1961 06:30:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	103
<i>Junctions</i>	102
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	101
<i>Channels</i>	0
<i>Pipes</i>	101
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

FLOW.SPF

Node Summary

SN Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
88 SD-78	Junction	0.92	9.79	0.92	9.79	0.00	13.48	6.87	0.00	2.92	0 00:00	0.00	0.00
89 SD-78A	Junction	6.52	14.61	6.52	14.61	0.00	8.13	12.69	0.00	1.91	0 00:00	0.00	0.00
90 SD-79	Junction	2.14	10.86	2.14	10.86	0.00	13.48	8.70	0.00	2.15	0 00:00	0.00	0.00
91 SD-79A	Junction	7.02	14.39	7.02	14.39	0.00	7.48	13.32	0.00	1.07	0 00:00	0.00	0.00
92 SD-8	Junction	0.92	9.79	0.92	9.79	0.00	2.70	8.05	0.00	1.74	0 00:00	0.00	0.00
93 SD-80	Junction	9.46	13.86	9.46	13.86	0.00	2.93	13.86	0.00	0.00	0 11:13	0.00	0.00
94 SD-80A	Junction	8.56	13.76	8.56	13.76	0.00	15.05	13.76	0.00	0.00	0 11:30	7.16	86.00
95 SD-81	Junction	3.95	10.41	3.95	10.41	0.00	1.06	10.41	0.00	0.00	0 11:06	0.00	0.00
96 SD-85	Junction	4.05	13.21	4.05	13.21	0.00	12.21	12.47	0.00	0.74	0 00:00	0.00	0.00
97 SD-86	Junction	5.78	13.40	5.78	13.40	0.00	9.50	12.95	0.00	0.45	0 00:00	0.00	0.00
98 SD-87	Junction	6.85	13.68	6.85	13.68	0.00	7.71	13.43	0.00	0.25	0 00:00	0.00	0.00
99 SD-88	Junction	7.87	14.19	7.87	14.19	0.00	5.17	14.01	0.00	0.18	0 00:00	0.00	0.00
100 SD-89	Junction	10.58	13.63	10.58	13.63	0.00	3.90	13.63	0.00	0.00	0 11:30	0.81	22.00
101 SD-9	Junction	0.18	10.03	0.18	10.03	0.00	2.96	8.47	0.00	1.56	0 00:00	0.00	0.00
102 SD-91	Junction	4.00	11.26	4.00	11.26	0.00	5.16	11.26	0.00	0.00	0 11:30	2.59	57.00
103 DUMMY-MH	Outfall	-6.00					63.25	-3.50					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged (min)	Condition
57	Pipe - (54)	Pipe	NODE-18	NODE-19	112.97	6.65	4.97	1.4900	12.000	0.0130	3.52	4.34	0.81	5.11	1.00	1.00	78.00	SURCHARGED
58	Pipe - (55)	Pipe	NODE-19	NODE-20	166.50	4.97	2.49	1.4900	12.000	0.0130	3.51	4.35	0.81	4.46	1.00	1.00	88.00	SURCHARGED
59	Pipe - (56)	Pipe	NODE-20	SD-79	23.93	2.49	2.14	1.4600	12.000	0.0130	3.94	4.31	0.91	5.02	1.00	1.00	347.00	SURCHARGED
60	Pipe - (57)	Pipe	SD-79	NODE-18B	97.50	2.14	1.89	0.2600	24.000	0.0130	13.48	11.46	1.18	4.29	2.00	1.00	115.00	SURCHARGED
61	Pipe - (58)	Pipe	NODE-18B	NODE-19B	128.08	1.89	1.56	0.2600	24.000	0.0130	13.48	11.48	1.17	4.29	2.00	1.00	92.00	SURCHARGED
62	Pipe - (59)	Pipe	NODE-19B	NODE-20B	190.61	1.56	1.07	0.2600	24.000	0.0130	13.48	11.47	1.18	4.29	2.00	1.00	86.00	SURCHARGED
63	Pipe - (60)	Pipe	NODE-20B	SD-78	56.62	1.07	0.92	0.2600	24.000	0.0130	13.48	11.64	1.16	5.42	2.00	1.00	79.00	SURCHARGED
64	Pipe - (61)	Pipe	SD-78	SD-77	28.68	0.92	-0.24	4.0400	24.000	0.0130	13.56	45.50	0.30	4.32	2.00	1.00	79.00	SURCHARGED
65	Pipe - (62)	Pipe	SD-77	SD-76	144.33	-0.24	-0.48	0.1700	27.000	0.0130	24.12	13.85	1.74	6.07	2.25	1.00	75.00	SURCHARGED
66	Pipe - (63)	Pipe	SD-76	NODE-22	223.98	-0.48	-1.62	0.5100	30.000	0.0130	25.75	29.26	0.88	5.31	2.50	1.00	71.00	SURCHARGED
67	Pipe - (64)	Pipe	SD-74	PS	77.02	-2.32	-5.14	3.6600	36.000	0.0130	40.63	127.62	0.32	5.75	3.00	1.00	66.00	SURCHARGED
68	Pipe - (65)	Pipe	SD-73	PS	59.39	-5.14	-5.14	0.0000	36.000	0.0130	22.84	29.83	0.77	3.23	3.00	1.00	228.00	SURCHARGED
69	Pipe - (66)	Pipe	SD-10	NODE-21	73.71	1.28	0.97	0.4200	21.000	0.0130	9.00	10.29	0.88	3.74	1.75	1.00	87.00	SURCHARGED
70	Pipe - (66) (1)	Pipe	NODE-21	SD-77	286.95	0.97	-0.24	0.4200	21.000	0.0130	9.30	10.29	0.90	3.87	1.75	1.00	91.00	SURCHARGED
71	Pipe - (67)	Pipe	NODE-5	SD-10	179.84	1.86	1.28	0.3200	21.000	0.0130	8.78	9.00	0.98	3.65	1.75	1.00	82.00	SURCHARGED
72	Pipe - (68)	Pipe	SD-78A	SD-76B	173.98	6.52	5.48	0.6000	18.000	0.0130	8.13	8.12	1.00	4.60	1.50	1.00	202.00	SURCHARGED
73	Pipe - (69)	Pipe	NODE-22	SD-74	138.16	-1.62	-2.32	0.5100	30.000	0.0130	28.14	29.20	0.96	7.59	2.50	1.00	73.00	SURCHARGED
74	Pipe - (70)	Pipe	MH-B	SD-74	232.06	7.75	-2.32	4.3400	15.000	0.0130	8.33	13.46	0.62	7.43	1.07	0.86	0.00	Calculated
75	Pipe - (71)	Pipe	SD-72	SD-73	255.30	-4.83	-5.14	0.1200	33.000	0.0130	22.81	23.65	0.96	3.84	2.75	1.00	257.00	SURCHARGED
76	Pipe - (73)	Pipe	NODE-15B	SD-8	38.10	1.03	0.92	0.2900	12.000	0.0130	2.70	1.91	1.41	3.44	1.00	1.00	101.00	SURCHARGED
77	Pipe - (74)	Pipe	NODE-15A	NODE-15B	226.88	1.71	1.03	0.3000	12.000	0.0130	2.52	1.95	1.29	3.21	1.00	1.00	95.00	SURCHARGED
78	Pipe - (75)	Pipe	NODE-13	NODE-14	41.97	2.04	1.91	0.3100	12.000	0.0130	1.84	1.98	0.93	2.34	1.00	1.00	93.00	SURCHARGED
79	Pipe - (76)	Pipe	NODE-14	NODE-15A	67.54	1.91	1.71	0.3000	12.000	0.0130	2.33	1.94	1.20	2.97	1.00	1.00	94.00	SURCHARGED
80	Pipe - (77)	Pipe	NODE-11	NODE-12	41.35	2.77	2.65	0.2900	12.000	0.0130	2.39	1.92	1.24	3.04	1.00	1.00	82.00	SURCHARGED
81	Pipe - (78)	Pipe	NODE-12	NODE-13	204.16	2.65	2.04	0.3000	12.000	0.0130	2.05	1.95	1.05	2.61	1.00	1.00	83.00	SURCHARGED
82	Pipe - (79)	Pipe	SD-8	NODE-16A	108.51	0.92	0.66	0.2400	12.000	0.0130	2.70	1.74	1.55	3.44	1.00	1.00	98.00	SURCHARGED
83	Pipe - (80)	Pipe	NODE-16A	NODE-16B	71.40	0.66	0.49	0.2400	12.000	0.0130	2.82	1.74	1.62	3.59	1.00	1.00	93.00	SURCHARGED
84	Pipe - (81)	Pipe	NODE-16B	SD-9	127.30	0.49	0.18	0.2400	12.000	0.0130	2.94	1.76	1.67	4.07	1.00	1.00	89.00	SURCHARGED
85	Pipe - (82)	Pipe	SD-9	SD-60	279.82	0.18	-0.80	0.3500	15.000	0.0130	2.96	3.82	0.77	3.03	1.25	1.00	84.00	SURCHARGED
86	Pipe - (83)	Pipe	SD-60	NODE 25	109.17	-0.80	-1.70	0.8200	15.000	0.0130	3.88	5.87	0.66	3.95	1.25	1.00	98.00	SURCHARGED
87	Pipe - (84)	Pipe	NODE 25	NODE-24	245.49	-1.70	-3.71	0.8200	15.000	0.0130	4.17	5.85	0.71	3.40	1.25	1.00	198.00	SURCHARGED
88	Pipe - (85)	Pipe	NODE-24	SD-70	48.58	-3.71	-4.12	0.8400	15.000	0.0130	4.53	5.93	0.76	3.70	1.25	1.00	338.00	SURCHARGED
89	Pipe - (86)	Pipe	SD-70	NODE-23	51.28	-4.12	-4.22	0.1900	33.000	0.0130	22.77	23.65	0.96	3.83	2.75	1.00	214.00	SURCHARGED
90	Pipe - (87)	Pipe	NODE-23	SD-72	316.28	-4.22	-4.83	0.1900	33.000	0.0130	22.80	23.65	0.96	3.84	2.75	1.00	214.00	SURCHARGED
91	Pipe - (88)	Pipe	CBSD-22	NODE-6	239.33	5.74	4.26	0.6200	15.000	0.0130	3.39	5.08	0.67	3.55	1.25	1.00	43.00	SURCHARGED
92	Pipe - (89)	Pipe	NODE-6	SD-15	79.46	4.26	3.76	0.6300	15.000	0.0130	3.41	5.12	0.67	3.35	1.25	1.00	60.00	SURCHARGED
93	Pipe - (90)	Pipe	SD-15	NODE-7	41.00	3.76	3.52	0.5900	15.000	0.0130	3.42	4.94	0.69	3.37	1.25	1.00	63.00	SURCHARGED
94	Pipe - (91)	Pipe	NODE-7	NODE-8	232.34	3.52	2.18	0.5800	15.000	0.0130	4.11	4.91	0.84	3.60	1.25	1.00	65.00	SURCHARGED
95	Pipe - (92)	Pipe	NODE-8	SD-7	31.53	2.18	2.00	0.5700	15.000	0.0130	4.36	4.88	0.89	3.67	1.25	1.00	70.00	SURCHARGED
96	Pipe - (93)	Pipe	SD-7	NODE-9	77.64	2.00	1.57	0.5500	18.000	0.0130	4.33	7.82	0.55	3.78	1.50	1.00	70.00	SURCHARGED
97	Pipe - (94)	Pipe	NODE-9	NODE-10	230.06	1.57	0.29	0.5600	18.000	0.0130	4.63	7.85	0.59	2.71	1.50	1.00	72.00	SURCHARGED
98	Pipe - (95)	Pipe	NODE-10	SD-12	36.83	0.29	0.08	0.5600	18.000	0.0130	4.70	7.84	0.60	2.66	1.50	1.00	82.00	SURCHARGED
99	Pipe - (96)	Pipe	SD-77A	SD-76A	77.73	5.96	5.25	0.9100	18.000	0.0130	0.81	10.04	0.08	0.77	1.50	1.00	163.00	SURCHARGED
100	Pipe - (97)	Pipe	SD-81	NODE-5B	146.12	3.95	3.15	0.5500	12.000	0.0130	0.80	2.64	0.31	1.18	1.00	1.00	101.00	SURCHARGED
101	Pipe - (98)	Pipe	NODE-5B	SD-75	63.81	3.15	2.80	0.5500	12.000	0.0130	0.80	2.64	0.30	1.02	1.00	1.00	275.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	CBSD-22	5.74	10.00	4.26	5.74	0.00	10.00	0.00	0.00	0.00
2	CBSD-29	48.55	50.00	1.45	48.55	0.00	50.00	0.00	0.00	0.00
3	MH-B	7.75	13.72	5.97	7.75	0.00	13.72	0.00	0.00	0.00
4	NODE 25	-1.70	9.81	11.51	-1.70	0.00	9.81	0.00	0.00	0.00
5	NODE-1	38.31	48.68	10.37	38.31	0.00	48.68	0.00	0.00	0.00
6	NODE-10	0.29	9.84	9.55	0.29	0.00	9.84	0.00	0.00	0.00
7	NODE-11	2.77	10.15	7.38	2.77	0.00	10.15	0.00	0.00	0.00
8	NODE-12	2.65	9.62	6.97	2.65	0.00	9.62	0.00	0.00	0.00
9	NODE-13	2.04	8.84	6.80	2.04	0.00	8.84	0.00	0.00	0.00
10	NODE-14	1.91	9.08	7.17	1.91	0.00	9.08	0.00	0.00	0.00
11	NODE-15A	1.71	8.89	7.18	1.71	0.00	8.89	0.00	0.00	0.00
12	NODE-15B	1.03	9.35	8.32	1.03	0.00	9.35	0.00	0.00	0.00
13	NODE-16A	0.66	9.43	8.77	0.66	0.00	9.43	0.00	0.00	0.00
14	NODE-16B	0.49	9.59	9.10	0.49	0.00	9.59	0.00	0.00	0.00
15	NODE-17	2.48	10.06	7.58	2.48	0.00	10.06	0.00	0.00	0.00
16	NODE-18	6.65	11.32	4.67	6.65	0.00	11.32	0.00	0.00	0.00
17	NODE-18A	4.36	10.18	5.82	4.36	0.00	10.18	0.00	0.00	0.00
18	NODE-18B	1.89	9.97	8.08	1.89	0.00	9.97	0.00	0.00	0.00
19	NODE-19	4.97	9.90	4.93	4.97	0.00	9.90	0.00	0.00	0.00
20	NODE-19A	3.68	10.37	6.69	3.68	0.00	10.37	0.00	0.00	0.00
21	NODE-19B	1.56	9.83	8.27	1.56	0.00	9.83	0.00	0.00	0.00
22	NODE-2	31.09	35.59	4.50	31.09	0.00	35.59	0.00	0.00	0.00
23	NODE-20	2.49	10.63	8.14	2.49	0.00	10.63	0.00	0.00	0.00
24	NODE-20A	2.95	10.14	7.19	2.95	0.00	10.14	0.00	0.00	0.00
25	NODE-20B	1.07	9.83	8.76	1.07	0.00	9.83	0.00	0.00	0.00
26	NODE-21	0.97	9.77	8.80	0.97	0.00	9.77	0.00	0.00	0.00
27	NODE-22	-1.62	10.38	12.00	-1.62	0.00	10.38	0.00	0.00	0.00
28	NODE-23	-4.22	9.30	13.52	-4.22	0.00	9.30	0.00	0.00	0.00
29	NODE-24	-3.71	9.77	13.48	-3.71	0.00	9.77	0.00	0.00	0.00
30	NODE-26	0.39	10.11	9.73	0.39	0.00	10.11	0.00	0.00	0.00
31	NODE-27	0.14	10.05	9.91	0.14	0.00	10.05	0.00	0.00	0.00
32	NODE-28	-1.12	9.32	10.44	-1.12	0.00	9.32	0.00	0.00	0.00
33	NODE-29	-1.93	9.67	11.60	-1.93	0.00	9.67	0.00	0.00	0.00
34	NODE-3	2.82	9.76	6.94	2.82	0.00	9.76	0.00	0.00	0.00
35	NODE-30	-2.67	9.60	12.27	-2.67	0.00	9.60	0.00	0.00	0.00
36	NODE-31	-2.73	10.23	12.96	-2.73	0.00	10.23	0.00	0.00	0.00
37	NODE-32	-2.43	10.40	12.83	-2.43	0.00	10.40	0.00	0.00	0.00
38	NODE-33	-2.03	10.06	12.09	-2.03	0.00	10.06	0.00	0.00	0.00
39	NODE-34	-1.26	10.05	11.31	-1.26	0.00	10.05	0.00	0.00	0.00
40	NODE-35	-0.90	10.33	11.23	-0.90	0.00	10.33	0.00	0.00	0.00
41	NODE-36	-0.53	10.61	11.14	-0.53	0.00	10.61	0.00	0.00	0.00
42	NODE-37	-0.17	10.74	10.91	-0.17	0.00	10.74	0.00	0.00	0.00
43	NODE-38	0.40	11.28	10.88	0.40	0.00	11.28	0.00	0.00	0.00
44	NODE-39	0.89	11.70	10.81	0.89	0.00	11.70	0.00	0.00	0.00
45	NODE-4	2.22	9.84	7.62	2.22	0.00	9.84	0.00	0.00	0.00
46	NODE-40	1.70	11.81	10.11	1.70	0.00	11.81	0.00	0.00	0.00
47	NODE-41	4.97	13.46	8.49	4.97	0.00	13.46	0.00	0.00	0.00
48	NODE-42	9.44	13.88	4.44	9.44	0.00	13.88	0.00	0.00	0.00
49	NODE-5	1.86	10.79	8.93	1.86	0.00	10.79	0.00	0.00	0.00
50	NODE-5B	3.15	10.17	7.02	3.15	0.00	10.17	0.00	0.00	0.00
51	NODE-6	4.26	9.22	4.96	4.26	0.00	9.22	0.00	0.00	0.00
52	NODE-7	3.52	8.86	5.34	3.52	0.00	8.86	0.00	0.00	0.00
53	NODE-8	2.18	9.00	6.82	2.18	0.00	9.00	0.00	0.00	0.00
54	NODE-9	1.57	9.02	7.45	1.57	0.00	9.02	0.00	0.00	0.00
55	Out-1Pipe - (71)	-5.14	0.86	6.00	-5.14	0.00	0.86	0.00	0.00	0.00
56	PS	-5.14	11.64	16.78	-5.14	0.00	11.64	0.00	0.00	0.00
57	SD-10	1.28	10.14	8.86	1.28	0.00	10.14	0.00	0.00	0.00
58	SD-11	2.35	9.85	7.50	2.35	0.00	9.85	0.00	0.00	0.00
59	SD-12	0.08	10.68	10.60	0.08	0.00	10.68	0.00	0.00	0.00
60	SD-15	3.76	9.27	5.51	3.76	0.00	9.27	0.00	0.00	0.00
61	SD-17	4.08	9.88	5.80	4.08	0.00	9.88	0.00	0.00	0.00
62	SD-18	4.02	9.91	5.89	4.02	0.00	9.91	0.00	0.00	0.00
63	SD-26	4.65	10.68	6.03	4.65	0.00	10.68	0.00	0.00	0.00
64	SD-27	6.08	12.02	5.94	6.08	0.00	12.02	0.00	0.00	0.00
65	SD-28	7.98	12.84	4.86	7.98	0.00	12.84	0.00	0.00	0.00
66	SD-56	-0.72	10.13	10.85	-0.72	0.00	10.13	0.00	0.00	0.00
67	SD-57	0.45	9.84	9.39	0.45	0.00	9.84	0.00	0.00	0.00
68	SD-58	-1.74	10.27	12.01	-1.74	0.00	10.27	0.00	0.00	0.00
69	SD-60	-0.80	10.18	10.98	-0.80	0.00	10.18	0.00	0.00	0.00
70	SD-63	1.90	12.10	10.20	1.90	0.00	12.10	0.00	0.00	0.00
71	SD-65	0.66	11.90	11.24	0.66	0.00	11.90	0.00	0.00	0.00
72	SD-66	-0.42	10.85	11.27	-0.42	0.00	10.85	0.00	0.00	0.00
73	SD-67	-1.05	10.00	11.05	-1.05	0.00	10.00	0.00	0.00	0.00
74	SD-68	-2.28	10.35	12.63	-2.28	0.00	10.35	0.00	0.00	0.00
75	SD-69	-2.85	10.34	13.19	-2.85	0.00	10.34	0.00	0.00	0.00
76	SD-7	2.00	9.48	7.48	2.00	0.00	9.48	0.00	0.00	0.00
77	SD-70	-4.12	10.20	14.32	-4.12	0.00	10.20	0.00	0.00	0.00
78	SD-71	3.30	12.56	9.26	3.30	0.00	12.56	0.00	0.00	0.00
79	SD-72	-4.83	9.83	14.66	-4.83	0.00	9.83	0.00	0.00	0.00
80	SD-73	-5.14	10.72	15.86	-5.14	0.00	10.72	0.00	0.00	0.00
81	SD-74	-2.32	11.35	13.67	-2.32	0.00	11.35	0.00	0.00	0.00
82	SD-75	2.80	10.22	7.42	2.80	0.00	10.22	0.00	0.00	0.00
83	SD-76	-0.48	9.34	9.82	-0.48	0.00	9.34	0.00	0.00	0.00
84	SD-76A	5.25	12.28	7.03	5.25	0.00	12.28	0.00	0.00	0.00
85	SD-76B	5.48	14.93	9.45	5.48	0.00	14.93	0.00	0.00	0.00
86	SD-77	-0.24	9.76	10.00	-0.24	0.00	9.76	0.00	0.00	0.00
87	SD-77A	5.96	12.94	6.98	5.96	0.00	12.94	0.00	0.00	0.00
88	SD-78	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00

Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
89 SD-78A	6.52	14.61	8.09	6.52	0.00	14.61	0.00	0.00	0.00
90 SD-79	2.14	10.86	8.72	2.14	0.00	10.86	0.00	0.00	0.00
91 SD-79A	7.02	14.39	7.37	7.02	0.00	14.39	0.00	0.00	0.00
92 SD-8	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00
93 SD-80	9.46	13.86	4.40	9.46	0.00	13.86	0.00	0.00	0.00
94 SD-80A	8.56	13.76	5.20	8.56	0.00	13.76	0.00	0.00	0.00
95 SD-81	3.95	10.41	6.46	3.95	0.00	10.41	0.00	0.00	0.00
96 SD-85	4.05	13.21	9.16	4.05	0.00	13.21	0.00	0.00	0.00
97 SD-86	5.78	13.40	7.62	5.78	0.00	13.40	0.00	0.00	0.00
98 SD-87	6.85	13.68	6.83	6.85	0.00	13.68	0.00	0.00	0.00
99 SD-88	7.87	14.19	6.32	7.87	0.00	14.19	0.00	0.00	0.00
100 SD-89	10.58	13.63	3.05	10.58	0.00	13.63	0.00	0.00	0.00
101 SD-9	0.18	10.03	9.85	0.18	0.00	10.03	0.00	0.00	0.00
102 SD-91	4.00	11.26	7.26	4.00	0.00	11.26	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
88 SD-78	13.48	0.00	6.87	5.95	0.00	2.92	1.68	0.76	0 11:30	0 00:00	0.00	0.00
89 SD-78A	8.13	1.35	12.69	6.17	0.00	1.91	7.71	1.19	0 11:30	0 00:00	0.00	0.00
90 SD-79	13.48	0.00	8.70	6.56	0.00	2.15	3.50	1.36	0 11:30	0 00:00	0.00	0.00
91 SD-79A	7.48	2.00	13.32	6.30	0.00	1.07	8.35	1.33	0 11:30	0 00:00	0.00	0.00
92 SD-8	2.70	0.00	8.05	7.13	0.00	1.74	1.68	0.76	0 11:30	0 00:00	0.00	0.00
93 SD-80	2.93	2.93	13.86	4.40	0.00	0.00	9.77	0.31	0 11:13	0 11:13	0.00	0.00
94 SD-80A	15.05	15.05	13.76	5.20	0.00	0.00	9.61	1.05	0 11:05	0 11:30	7.16	86.00
95 SD-81	1.06	0.62	10.41	6.46	0.00	0.00	4.38	0.43	0 11:06	0 11:06	0.00	0.00
96 SD-85	12.21	1.94	12.47	8.42	0.00	0.74	4.78	0.73	0 11:30	0 00:00	0.00	0.00
97 SD-86	9.50	2.79	12.95	7.17	0.00	0.45	6.50	0.72	0 11:30	0 00:00	0.00	0.00
98 SD-87	7.71	3.46	13.43	6.58	0.00	0.25	7.53	0.68	0 11:30	0 00:00	0.00	0.00
99 SD-88	5.17	3.18	14.01	6.14	0.00	0.18	8.43	0.56	0 11:18	0 00:00	0.00	0.00
100 SD-89	3.90	3.36	13.63	3.05	0.00	0.00	10.90	0.32	0 11:19	0 11:30	0.81	22.00
101 SD-9	2.96	0.03	8.47	8.29	0.00	1.56	0.78	0.60	0 11:13	0 00:00	0.00	0.00
102 SD-91	5.16	0.86	11.26	7.26	0.00	0.00	4.50	0.50	0 11:14	0 11:30	2.59	57.00

Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate
89 Pipe - (86)	51.28	-4.12	0.00	-4.22	0.00	0.10	0.1900	CIRCULAR	33.000	33.000	0.0130	0.5000	0.5000	0.0000	0.00	No
90 Pipe - (87)	316.28	-4.22	0.00	-4.83	0.00	0.61	0.1900	CIRCULAR	33.000	33.000	0.0130	0.5000	0.5000	0.0000	0.00	No
91 Pipe - (88)	239.33	5.74	0.00	4.26	0.00	1.48	0.6200	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
92 Pipe - (89)	79.46	4.26	0.00	3.76	0.00	0.50	0.6300	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
93 Pipe - (90)	41.00	3.76	0.00	3.52	0.00	0.24	0.5900	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
94 Pipe - (91)	232.34	3.52	0.00	2.18	0.00	1.34	0.5800	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
95 Pipe - (92)	31.53	2.18	0.00	2.00	0.00	0.18	0.5700	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
96 Pipe - (93)	77.64	2.00	0.00	1.57	0.00	0.43	0.5500	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
97 Pipe - (94)	230.06	1.57	0.00	0.29	0.00	1.29	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
98 Pipe - (95)	36.83	0.29	0.00	0.08	0.00	0.21	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
99 Pipe - (96)	77.73	5.96	0.00	5.25	0.00	0.71	0.9100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
100 Pipe - (97)	146.12	3.95	0.00	3.15	0.00	0.80	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
101 Pipe - (98)	63.81	3.15	0.00	2.80	0.00	0.35	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No

Pipe Results

SN Element ID	Peak Flow (cfs)	Time of Peak Flow (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1 OUTFALL-PIPE	63.25	0 11:30	32.09	1.97	12.88	0.18	2.50	1.00	11.00	0.92	SURCHARGED
2 Pipe - (102)	4.62	0 11:20	10.67	0.43	2.00	0.68	1.75	1.00	77.00	0.26	SURCHARGED
3 Pipe - (103)	4.65	0 11:40	12.77	0.36	3.03	0.06	1.75	1.00	77.00	0.73	SURCHARGED
4 Pipe - (104)	4.83	0 11:40	12.95	0.37	3.81	0.16	1.75	1.00	77.00	0.91	SURCHARGED
5 Pipe - (105)	5.27	0 11:40	12.95	0.41	3.46	0.62	1.75	1.00	79.00	0.80	SURCHARGED
6 Pipe - (106)	5.28	0 11:40	8.33	0.63	2.75	0.88	1.75	1.00	89.00	0.57	SURCHARGED
7 Pipe - (107)	6.02	0 11:39	8.30	0.73	2.73	1.38	1.75	1.00	94.00	0.56	SURCHARGED
8 Pipe - (108)	6.03	0 11:39	8.75	0.69	2.79	0.37	1.75	1.00	104.00	0.54	SURCHARGED
9 Pipe - (109)	6.48	0 11:37	8.71	0.74	2.69	1.52	1.75	1.00	140.00	0.44	SURCHARGED
10 Pipe - (110)	6.75	0 11:36	8.84	0.76	2.81	0.34	1.75	1.00	209.00	0.26	SURCHARGED
11 Pipe - (135)	18.08	0 11:36	23.79	0.76	3.68	1.71	2.50	1.00	137.00	0.43	SURCHARGED
12 Pipe - (136)	4.30	0 11:32	5.25	0.82	2.44	1.91	1.50	1.00	93.00	0.66	SURCHARGED
13 Pipe - (137)	4.30	0 11:32	11.82	0.36	2.44	0.76	1.50	1.00	99.00	0.07	SURCHARGED
14 Pipe - (138)	9.61	0 12:16	9.46	1.02	4.00	0.23	1.75	1.00	160.00	0.56	SURCHARGED
15 Pipe - (139)	9.78	0 12:16	9.51	1.03	4.07	0.92	1.75	1.00	160.00	0.54	SURCHARGED
16 Pipe - (140)	9.95	0 12:16	9.51	1.05	4.14	0.26	1.75	1.00	200.00	0.45	SURCHARGED
17 Pipe - (141)	9.96	0 12:16	8.07	1.23	4.14	0.40	1.75	1.00	198.00	0.46	SURCHARGED
18 Pipe - (142)	10.07	0 12:16	8.08	1.25	4.19	0.87	1.75	1.00	198.00	0.44	SURCHARGED
19 Pipe - (143)	10.32	0 12:16	8.08	1.28	4.29	0.37	1.75	1.00	165.00	0.40	SURCHARGED
20 Pipe - (144)	10.33	0 12:16	10.12	1.02	3.29	0.34	2.00	1.00	107.00	0.40	SURCHARGED
21 Pipe - (145)	10.49	0 12:16	10.12	1.04	3.34	1.08	2.00	1.00	107.00	0.43	SURCHARGED
22 Pipe - (146)	10.64	0 12:16	10.12	1.05	3.39	0.50	2.00	1.00	105.00	0.47	SURCHARGED
23 Pipe - (147)	10.65	0 12:17	13.57	0.78	3.49	0.28	2.00	1.00	105.00	0.60	SURCHARGED
24 Pipe - (148)	10.80	0 12:17	13.57	0.80	3.44	1.04	2.00	1.00	107.00	0.57	SURCHARGED
25 Pipe - (149)	10.92	0 12:17	13.79	0.79	3.47	0.32	2.00	1.00	197.00	0.41	SURCHARGED
26 Pipe - (150)	10.93	0 12:17	13.85	0.79	2.75	0.63	2.25	1.00	171.00	0.36	SURCHARGED
27 Pipe - (151)	11.10	0 12:17	13.85	0.80	2.79	1.29	2.25	1.00	182.00	0.36	SURCHARGED
28 Pipe - (152)	11.47	0 11:20	13.85	0.83	3.02	0.49	2.25	1.00	196.00	0.42	SURCHARGED
29 Pipe - (153)	2.72	0 11:18	9.26	0.29	4.06	0.60	1.50	1.00	59.00	1.06	SURCHARGED
30 Pipe - (154)	2.84	0 12:27	9.28	0.31	3.16	1.06	1.50	1.00	64.00	0.71	SURCHARGED
31 Pipe - (155)	5.27	0 11:17	7.68	0.69	3.80	0.84	1.50	1.00	70.00	0.77	SURCHARGED
32 Pipe - (156)	7.60	0 11:16	11.30	0.67	4.45	0.79	1.75	1.00	72.00	0.88	SURCHARGED
33 Pipe - (157)	9.42	0 11:30	24.72	0.38	4.69	0.45	2.25	1.00	75.00	0.94	SURCHARGED
34 Pipe - (158)	10.28	0 11:30	24.69	0.42	5.63	0.43	2.25	1.00	81.00	1.16	SURCHARGED
35 Pipe - (159)	12.22	0 11:30	38.01	0.32	3.59	0.66	2.25	1.00	87.00	0.73	SURCHARGED
36 Pipe - (28)	1.87	0 11:30	12.13	0.15	9.13	0.16	0.31	0.31	0.00	3.38	Calculated
37 Pipe - (29)	2.68	0 11:30	12.13	0.22	11.53	0.09	0.34	0.34	0.00	4.05	Calculated
38 Pipe - (30)	2.72	0 11:30	12.13	0.22	5.26	0.63	0.66	0.66	0.00	1.92	Calculated
39 Pipe - (32)	4.68	0 11:17	7.96	0.59	7.02	0.09	1.00	1.00	65.00	1.88	SURCHARGED
40 Pipe - (33)	4.75	0 11:30	6.68	0.71	3.87	0.58	1.25	1.00	70.00	0.91	SURCHARGED
41 Pipe - (34)	4.94	0 11:13	4.14	1.19	4.03	0.63	1.25	1.00	81.00	0.45	SURCHARGED
42 Pipe - (35)	5.76	0 11:13	2.91	1.98	4.70	0.10	1.25	1.00	76.00	0.54	SURCHARGED
43 Pipe - (36)	6.73	0 11:13	7.87	0.86	3.91	0.96	1.50	1.00	74.00	0.86	SURCHARGED
44 Pipe - (37)	7.19	0 11:13	7.91	0.91	4.07	0.34	1.50	1.00	80.00	0.69	SURCHARGED
45 Pipe - (38)	7.34	0 11:13	8.79	0.83	3.05	0.23	1.75	1.00	79.00	0.58	SURCHARGED
46 Pipe - (39)	7.62	0 11:13	9.11	0.84	3.17	0.57	1.75	1.00	79.00	0.61	SURCHARGED
47 Pipe - (40)	6.60	0 11:05	7.43	0.89	3.74	1.37	1.50	1.00	186.00	0.57	SURCHARGED
48 Pipe - (41)	7.48	0 11:05	5.89	1.27	4.23	0.63	1.50	1.00	202.00	0.58	SURCHARGED
49 Pipe - (44)	8.12	0 11:05	8.20	0.99	4.60	0.14	1.50	1.00	207.00	0.60	SURCHARGED
50 Pipe - (45)	8.16	0 11:05	7.43	1.10	4.62	0.64	1.50	1.00	207.00	0.63	SURCHARGED
51 Pipe - (46)	8.37	0 11:05	7.38	1.13	4.74	0.49	1.50	1.00	218.00	0.62	SURCHARGED
52 Pipe - (47)	8.54	0 11:05	7.42	1.15	4.83	0.51	1.50	1.00	227.00	0.51	SURCHARGED
53 Pipe - (48)	8.69	0 11:05	7.57	1.15	4.92	0.10	1.50	1.00	225.00	0.44	SURCHARGED
54 Pipe - (51)	8.99	0 11:06	10.39	0.87	2.86	0.88	2.00	1.00	122.00	0.42	SURCHARGED
55 Pipe - (52)	9.99	0 11:06	10.51	0.95	3.18	0.83	2.00	1.00	145.00	0.37	SURCHARGED
56 Pipe - (53)	2.93	0 11:30	4.35	0.67	3.73	0.84	1.00	1.00	64.00	1.00	SURCHARGED
57 Pipe - (54)	3.52	0 11:23	4.34	0.81	5.11	0.37	1.00	1.00	78.00	1.35	SURCHARGED
58 Pipe - (55)	3.51	0 11:14	4.35	0.81	4.46	0.62	1.00	1.00	88.00	0.84	SURCHARGED
59 Pipe - (56)	3.94	0 11:14	4.31	0.91	5.02	0.08	1.00	1.00	347.00	0.22	SURCHARGED
60 Pipe - (57)	13.48	0 11:12	11.46	1.18	4.29	0.38	2.00	1.00	115.00	0.47	SURCHARGED
61 Pipe - (58)	13.48	0 11:11	11.48	1.17	4.29	0.50	2.00	1.00	92.00	0.52	SURCHARGED
62 Pipe - (59)	13.48	0 11:12	11.47	1.18	4.29	0.74	2.00	1.00	86.00	0.59	SURCHARGED
63 Pipe - (60)	13.48	0 11:11	11.64	1.16	5.42	0.17	2.00	1.00	79.00	1.06	SURCHARGED
64 Pipe - (61)	13.56	0 11:10	45.50	0.30	4.32	0.11	2.00	1.00	79.00	0.66	SURCHARGED
65 Pipe - (62)	24.12	0 11:13	13.85	1.74	6.07	0.40	2.25	1.00	75.00	0.62	SURCHARGED
66 Pipe - (63)	25.75	0 11:13	29.26	0.88	5.31	0.70	2.50	1.00	71.00	0.82	SURCHARGED
67 Pipe - (64)	40.63	0 11:30	127.62	0.32	5.75	0.22	3.00	1.00	66.00	0.84	SURCHARGED
68 Pipe - (65)	22.84	0 11:33	29.83	0.77	3.23	0.31	3.00	1.00	228.00	0.20	SURCHARGED
69 Pipe - (66)	9.00	0 11:13	10.29	0.88	3.74	0.33	1.75	1.00	87.00	0.67	SURCHARGED
70 Pipe - (66) (1)	9.30	0 11:13	10.29	0.90	3.87	1.24	1.75	1.00	91.00	0.31	SURCHARGED
71 Pipe - (67)	8.78	0 11:13	9.00	0.98	3.65	0.82	1.75	1.00	82.00	0.64	SURCHARGED
72 Pipe - (68)	8.13	0 11:05	8.12	1.00	4.60	0.63	1.50	1.00	202.00	0.65	SURCHARGED
73 Pipe - (69)	28.14	0 11:13	29.20	0.96	7.59	0.30	2.50	1.00	73.00	1.30	SURCHARGED
74 Pipe - (70)	8.33	0 11:30	13.46	0.62	7.43	0.52	1.07	0.86	0.00	1.12	Calculated
75 Pipe - (71)	22.81	0 11:33	23.65	0.96	3.84	1.11	2.75	1.00	257.00	0.21	SURCHARGED
76 Pipe - (73)	2.70	0 11:14	1.91	1.41	3.44	0.18	1.00	1.00	101.00	0.46	SURCHARGED
77 Pipe - (74)	2.52	0 11:14	1.95	1.29	3.21	1.18	1.00	1.00	95.00	0.51	SURCHARGED
78 Pipe - (75)	1.84	0 11:14	1.98	0.93	2.34	0.30	1.00	1.00	93.00	0.47	SURCHARGED
79 Pipe - (76)	2.33	0 11:14	1.94	1.20	2.97	0.38	1.00	1.00	94.00	0.56	SURCHARGED
80 Pipe - (77)	2.39	0 11:30	1.92	1.24	3.04	0.23	1.00	1.00	82.00	0.56	SURCHARGED
81 Pipe - (78)	2.05	0 11:29	1.95	1.05	2.61	1.30	1.00	1.00	83.00	0.54	SURCHARGED
82 Pipe - (79)	2.70	0 11:14	1.74	1.55	3.44	0.53	1.00	1.00	98.00	0.45	SURCHARGED
83 Pipe - (80)	2.82	0 11:13	1.74	1.62	3.59	0.33	1.00	1.00	93.00	0.46	SURCHARGED
84 Pipe - (81)	2.94	0 11:13	1.76	1.67	4.07	0.52	1.00	1.00	89.00	0.60	SURCHARGED
85 Pipe - (82)	2.96	0 11:13	3.82	0.77	3.03	1.54	1.25	1.00	84.00	0.72	SURCHARGED
86 Pipe - (83)	3.88	0 11:14	5.87	0.66	3.95	0.46	1.25	1.00	98.00	0.92	SURCHARGED
87 Pipe - (84)	4.17	0 11:14	5.85	0.71	3.40	1.20	1.25	1.00	198.00	0.55	SURCHARGED

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
88 Pipe - (85)	4.53	0 11:14	5.93	0.76	3.70	0.22	1.25	1.00	338.00	0.17	SURCHARGED
89 Pipe - (86)	22.77	0 11:32	23.65	0.96	3.83	0.22	2.75	1.00	214.00	0.38	SURCHARGED
90 Pipe - (87)	22.80	0 11:33	23.65	0.96	3.84	1.37	2.75	1.00	214.00	0.33	SURCHARGED
91 Pipe - (88)	3.39	0 11:33	5.08	0.67	3.55	1.12	1.25	1.00	43.00	0.90	SURCHARGED
92 Pipe - (89)	3.41	0 11:20	5.12	0.67	3.35	0.40	1.25	1.00	60.00	0.85	SURCHARGED
93 Pipe - (90)	3.42	0 11:20	4.94	0.69	3.37	0.20	1.25	1.00	63.00	0.81	SURCHARGED
94 Pipe - (91)	4.11	0 11:20	4.91	0.84	3.60	1.08	1.25	1.00	65.00	0.82	SURCHARGED
95 Pipe - (92)	4.36	0 11:20	4.88	0.89	3.67	0.14	1.25	1.00	70.00	0.84	SURCHARGED
96 Pipe - (93)	4.33	0 11:20	7.82	0.55	3.78	0.34	1.50	1.00	70.00	0.89	SURCHARGED
97 Pipe - (94)	4.63	0 11:20	7.85	0.59	2.71	1.41	1.50	1.00	72.00	0.44	SURCHARGED
98 Pipe - (95)	4.70	0 11:20	7.84	0.60	2.66	0.23	1.50	1.00	82.00	0.20	SURCHARGED
99 Pipe - (96)	0.81	0 11:05	10.04	0.08	0.77	1.68	1.50	1.00	163.00	0.01	SURCHARGED
100 Pipe - (97)	0.80	0 11:06	2.64	0.31	1.18	2.06	1.00	1.00	101.00	0.21	SURCHARGED
101 Pipe - (98)	0.80	0 11:06	2.64	0.30	1.02	1.04	1.00	1.00	275.00	0.03	SURCHARGED

8th Street 100-year Flow SWMM Modeling Report

Project Description

File Name 8th street outfall basin_existing 100 year flow.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 14, 1971 13:00:00
End Analysis On Jan 15, 1971 13:00:00
Start Reporting On Jan 14, 1971 13:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	21
<i>Junctions</i>	20
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	20
<i>Channels</i>	0
<i>Pipes</i>	20
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	NODE-1	Junction	6.23	10.66	6.23	10.66	0.00	2.49	10.63	0.00	0.02	0 00:00	0.00	0.00
2	NODE-10	Junction	0.75	10.76	0.75	10.76	0.00	8.37	2.96	0.00	7.80	0 00:00	0.00	0.00
3	NODE-2	Junction	6.99	11.15	6.99	11.15	0.00	2.26	11.15	0.00	0.00	0 11:45	0.15	30.00
4	NODE-3	Junction	6.11	10.46	6.11	10.46	0.00	1.79	10.46	0.00	0.00	0 11:45	0.65	45.00
5	NODE-4	Junction	5.69	10.43	5.69	10.43	0.00	1.89	10.43	0.00	0.00	0 11:45	0.00	5.00
6	NODE-5	Junction	5.44	10.25	5.44	10.25	0.00	4.52	9.61	0.00	0.63	0 00:00	0.00	0.00
7	NODE-6	Junction	5.31	10.14	5.31	10.14	0.00	4.69	9.43	0.00	0.71	0 00:00	0.00	0.00
8	NODE-7	Junction	2.86	10.15	2.86	10.15	0.00	4.64	7.85	0.00	2.30	0 00:00	0.00	0.00
9	NODE-8	Junction	5.24	9.91	5.24	9.91	0.00	2.32	9.80	0.00	0.11	0 00:00	0.00	0.00
10	NODE-9	Junction	3.88	9.75	3.88	9.75	0.00	3.56	8.38	0.00	1.37	0 00:00	0.00	0.00
11	SD-17	Junction	0.75	10.67	0.75	10.67	0.00	8.17	3.44	0.00	7.22	0 00:00	0.00	0.00
12	SD-19	Junction	1.42	10.28	1.42	10.28	0.00	7.76	6.83	0.00	3.45	0 00:00	0.00	0.00
13	SD-21	Junction	4.16	10.16	4.16	10.16	0.00	4.47	8.64	0.00	1.52	0 00:00	0.00	0.00
14	SD-23	Junction	5.90	10.35	5.90	10.35	0.00	4.38	9.91	0.00	0.44	0 00:00	0.00	0.00
15	SD-24	Junction	5.48	11.06	5.48	11.06	0.00	4.37	10.31	0.00	0.75	0 00:00	0.00	0.00
16	SD-25	Junction	6.46	10.73	6.46	10.73	0.00	2.35	10.73	0.00	0.00	0 11:48	0.00	0.00
17	SD-26	Junction	6.86	10.71	6.86	10.71	0.00	3.62	10.71	0.00	0.00	0 11:45	1.92	60.00
18	SD-39	Junction	4.80	9.94	4.80	9.94	0.00	3.45	9.11	0.00	0.83	0 00:00	0.00	0.00
19	SD-42	Junction	5.70	10.45	5.70	10.45	0.00	2.36	10.45	0.00	0.00	0 11:45	0.01	6.00
20	SD-50	Junction	1.86	10.59	1.86	10.59	0.00	7.76	5.17	0.00	5.42	0 00:00	0.00	0.00
21	OUTFALL	Outfall	0.75					8.37	1.87					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Reported Surcharged (min)	Reported Condition
1	Pipe - (28)	Pipe	SD-26	SD-25	147.10	6.86	6.46	0.2700	12.000	0.0130	1.74	1.86	0.94	2.21	1.00	1.00	98.00	SURCHARGED
2	Pipe - (29)	Pipe	SD-25	NODE-1	50.61	6.46	6.23	0.4500	12.000	0.0130	2.34	2.39	0.98	2.98	1.00	1.00	111.00	SURCHARGED
3	Pipe - (30)	Pipe	NODE-1	SD-24	167.14	6.23	5.48	0.4500	12.000	0.0130	2.49	2.39	1.04	3.17	1.00	1.00	117.00	SURCHARGED
4	Pipe - (31)	Pipe	NODE-4	SD-24	69.60	5.69	5.48	0.3000	12.000	0.0130	1.88	1.96	0.96	2.40	1.00	1.00	141.00	SURCHARGED
5	Pipe - (32)	Pipe	NODE-2	NODE-3	293.71	6.99	6.11	0.3000	12.000	0.0130	1.65	1.95	0.85	2.10	1.00	1.00	73.00	SURCHARGED
6	Pipe - (33)	Pipe	NODE-3	NODE-4	140.39	6.11	5.69	0.3000	12.000	0.0130	1.40	1.95	0.72	1.78	1.00	1.00	113.00	SURCHARGED
7	Pipe - (34)	Pipe	SD-24	SD-23	111.65	5.48	5.90	-0.3800	15.000	0.0130	4.38	3.96	1.10	3.57	1.25	1.00	71.00	SURCHARGED
8	Pipe - (35)	Pipe	SD-23	NODE-5	71.88	5.90	5.44	0.6400	15.000	0.0130	4.39	5.17	0.85	3.58	1.25	1.00	71.00	SURCHARGED
9	Pipe - (36)	Pipe	NODE-5	NODE-6	19.75	5.44	5.31	0.6400	15.000	0.0130	4.51	5.16	0.87	3.79	1.25	1.00	72.00	SURCHARGED
10	Pipe - (37)	Pipe	NODE-6	SD-21	178.52	5.31	4.16	0.6500	15.000	0.0130	4.47	5.19	0.86	4.43	1.25	1.00	72.00	SURCHARGED
11	Pipe - (38)	Pipe	SD-21	NODE-7	178.15	4.16	2.86	0.7300	15.000	0.0130	4.46	5.52	0.81	4.04	1.25	1.00	80.00	SURCHARGED
12	Pipe - (39)	Pipe	NODE-7	SD-19	199.27	2.86	1.42	0.7200	15.000	0.0130	4.63	5.48	0.84	3.77	1.25	1.00	96.00	SURCHARGED
13	Pipe - (40)	Pipe	SD-42	NODE-8	143.56	5.70	5.24	0.3200	12.000	0.0130	2.23	2.02	1.11	2.84	1.00	1.00	44.00	SURCHARGED
14	Pipe - (41)	Pipe	NODE-8	SD-39	138.53	5.24	4.80	0.3200	12.000	0.0130	2.32	2.01	1.15	2.95	1.00	1.00	48.00	SURCHARGED
15	Pipe - (42)	Pipe	SD-39	NODE-9	46.24	4.80	3.88	2.0000	12.000	0.0130	3.45	5.03	0.69	5.12	1.00	1.00	54.00	SURCHARGED
16	Pipe - (43)	Pipe	NODE-9	SD-19	122.83	3.88	1.42	2.0000	12.000	0.0130	3.56	5.04	0.71	4.53	1.00	1.00	65.00	SURCHARGED
17	Pipe - (44)	Pipe	SD-19	SD-50	248.72	1.42	1.86	-0.1800	18.000	0.0130	7.76	4.70	1.65	4.39	1.50	1.00	75.00	SURCHARGED
18	Pipe - (45)	Pipe	SD-50	SD-17	262.01	1.86	0.75	0.4200	18.000	0.0130	7.76	6.84	1.13	4.39	1.50	1.00	75.00	SURCHARGED
19	Pipe - (46)	Pipe	SD-17	NODE-10	25.14	0.75	0.75	0.0000	18.000	0.0130	8.17	4.70	1.74	4.62	1.50	1.00	85.00	SURCHARGED
20	Pipe - (48)	Pipe	NODE-10	OUTFALL	93.97	0.75	0.75	0.0000	18.000	0.0130	8.37	4.70	1.78	5.11	1.31	0.87	0.00	> CAPACITY

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	NODE-1	6.23	10.66	4.43	6.23	0.00	10.66	0.00	0.00	0.00
2	NODE-10	0.75	10.76	10.01	0.75	0.00	10.76	0.00	0.00	0.00
3	NODE-2	6.99	11.15	4.16	6.99	0.00	11.15	0.00	0.00	0.00
4	NODE-3	6.11	10.46	4.35	6.11	0.00	10.46	0.00	0.00	0.00
5	NODE-4	5.69	10.43	4.74	5.69	0.00	10.43	0.00	0.00	0.00
6	NODE-5	5.44	10.25	4.81	5.44	0.00	10.25	0.00	0.00	0.00
7	NODE-6	5.31	10.14	4.82	5.31	0.00	10.14	0.00	0.00	0.00
8	NODE-7	2.86	10.15	7.29	2.86	0.00	10.15	0.00	0.00	0.00
9	NODE-8	5.24	9.91	4.67	5.24	0.00	9.91	0.00	0.00	0.00
10	NODE-9	3.88	9.75	5.87	3.88	0.00	9.75	0.00	0.00	0.00
11	SD-17	0.75	10.67	9.92	0.75	0.00	10.67	0.00	0.00	0.00
12	SD-19	1.42	10.28	8.86	1.42	0.00	10.28	0.00	0.00	0.00
13	SD-21	4.16	10.16	6.00	4.16	0.00	10.16	0.00	0.00	0.00
14	SD-23	5.90	10.35	4.45	5.90	0.00	10.35	0.00	0.00	0.00
15	SD-24	5.48	11.06	5.58	5.48	0.00	11.06	0.00	0.00	0.00
16	SD-25	6.46	10.73	4.27	6.46	0.00	10.73	0.00	0.00	0.00
17	SD-26	6.86	10.71	3.85	6.86	0.00	10.71	0.00	0.00	0.00
18	SD-39	4.80	9.94	5.14	4.80	0.00	9.94	0.00	0.00	0.00
19	SD-42	5.70	10.45	4.75	5.70	0.00	10.45	0.00	0.00	0.00
20	SD-50	1.86	10.59	8.73	1.86	0.00	10.59	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 NODE-1	2.49	0.30	10.63	4.40	0.00	0.02	6.70	0.47	0 11:45	0 00:00	0.00	0.00
2 NODE-10	8.37	0.20	2.96	2.21	0.00	7.80	1.35	0.60	0 11:45	0 00:00	0.00	0.00
3 NODE-2	2.26	2.26	11.15	4.16	0.00	0.00	7.30	0.31	0 11:05	0 11:45	0.15	30.00
4 NODE-3	1.79	0.14	10.46	4.35	0.00	0.00	6.54	0.43	0 11:13	0 11:45	0.65	45.00
5 NODE-4	1.89	0.89	10.43	4.74	0.00	0.00	6.44	0.75	0 11:41	0 11:45	0.00	5.00
6 NODE-5	4.52	0.24	9.61	4.17	0.00	0.63	5.88	0.44	0 11:45	0 00:00	0.00	0.00
7 NODE-6	4.69	0.34	9.43	4.12	0.00	0.71	5.71	0.40	0 11:45	0 00:00	0.00	0.00
8 NODE-7	4.64	0.35	7.85	4.99	0.00	2.30	3.33	0.47	0 11:45	0 00:00	0.00	0.00
9 NODE-8	2.32	0.09	9.80	4.56	0.00	0.11	5.50	0.26	0 11:45	0 00:00	0.00	0.00
10 NODE-9	3.56	0.11	8.38	4.50	0.00	1.37	4.11	0.23	0 11:45	0 00:00	0.00	0.00
11 SD-17	8.17	0.41	3.44	2.69	0.00	7.22	1.41	0.66	0 11:45	0 00:00	0.00	0.00
12 SD-19	7.76	0.00	6.83	5.41	0.00	3.45	2.50	1.08	0 11:45	0 00:00	0.00	0.00
13 SD-21	4.47	0.00	8.64	4.48	0.00	1.52	4.57	0.41	0 11:45	0 00:00	0.00	0.00
14 SD-23	4.38	0.00	9.91	4.01	0.00	0.44	6.30	0.40	0 11:45	0 00:00	0.00	0.00
15 SD-24	4.37	0.60	10.31	4.83	0.00	0.75	6.42	0.94	0 11:45	0 00:00	0.00	0.00
16 SD-25	2.35	1.19	10.73	4.27	0.00	0.00	6.92	0.46	0 11:48	0 11:48	0.00	0.00
17 SD-26	3.62	3.55	10.71	3.85	0.00	0.00	7.27	0.41	0 11:07	0 11:45	1.92	60.00
18 SD-39	3.45	1.19	9.11	4.31	0.00	0.83	5.01	0.21	0 11:45	0 00:00	0.00	0.00
19 SD-42	2.36	2.36	10.45	4.75	0.00	0.00	5.94	0.24	0 11:40	0 11:45	0.01	6.00
20 SD-50	7.76	0.00	5.17	3.31	0.00	5.42	2.29	0.43	0 11:45	0 00:00	0.00	0.00

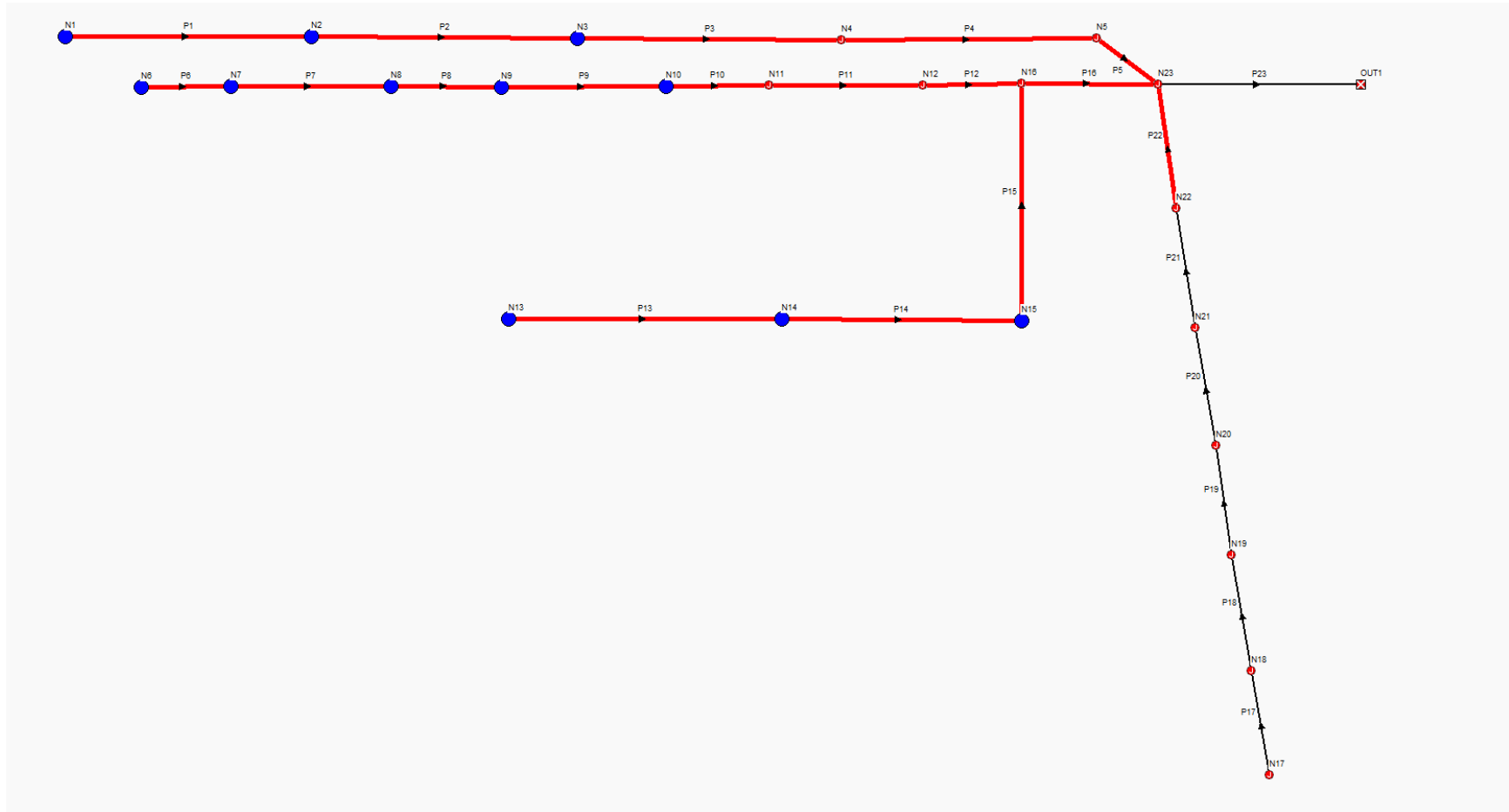
Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Pipe Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	No. of Barrels
1	Pipe - (28)	147.10	6.86	0.00	6.46	0.00	0.40	0.2700	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
2	Pipe - (29)	50.61	6.46	0.00	6.23	0.00	0.23	0.4500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
3	Pipe - (30)	167.14	6.23	0.00	5.48	0.00	0.75	0.4500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
4	Pipe - (31)	69.60	5.69	0.00	5.48	0.00	0.21	0.3000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
5	Pipe - (32)	293.71	6.99	0.00	6.11	0.00	0.88	0.3000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
6	Pipe - (33)	140.39	6.11	0.00	5.69	0.00	0.42	0.3000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
7	Pipe - (34)	111.65	5.48	0.00	5.90	0.00	-0.42	-0.3800	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
8	Pipe - (35)	71.88	5.90	0.00	5.44	0.00	0.46	0.6400	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
9	Pipe - (36)	19.75	5.44	0.00	5.31	0.00	0.13	0.6400	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
10	Pipe - (37)	178.52	5.31	0.00	4.16	0.00	1.15	0.6500	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
11	Pipe - (38)	178.15	4.16	0.00	2.86	0.00	1.30	0.7300	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
12	Pipe - (39)	199.27	2.86	0.00	1.42	0.00	1.44	0.7200	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
13	Pipe - (40)	143.56	5.70	0.00	5.24	0.00	0.46	0.3200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
14	Pipe - (41)	138.53	5.24	0.00	4.80	0.00	0.44	0.3200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
15	Pipe - (42)	46.24	4.80	0.00	3.88	0.00	0.92	2.0000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
16	Pipe - (43)	122.83	3.88	0.00	1.42	0.00	2.46	2.0000	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
17	Pipe - (44)	248.72	1.42	0.00	1.86	0.00	-0.44	-0.1800	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
18	Pipe - (45)	262.01	1.86	0.00	0.75	0.00	1.11	0.4200	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
19	Pipe - (46)	25.14	0.75	0.00	0.75	0.00	0.00	0.0000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
20	Pipe - (48)	93.97	0.75	0.00	0.75	0.00	0.00	0.0000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1 Pipe - (28)	1.74	0 11:07	1.86	0.94	2.21	1.11	1.00	1.00	98.00	0.54	SURCHARGED
2 Pipe - (29)	2.34	0 11:07	2.39	0.98	2.98	0.28	1.00	1.00	111.00	0.67	SURCHARGED
3 Pipe - (30)	2.49	0 11:07	2.39	1.04	3.17	0.88	1.00	1.00	117.00	0.12	SURCHARGED
4 Pipe - (31)	1.88	0 11:13	1.96	0.96	2.40	0.48	1.00	1.00	141.00	0.04	SURCHARGED
5 Pipe - (32)	1.65	0 11:31	1.95	0.85	2.10	2.33	1.00	1.00	73.00	0.52	SURCHARGED
6 Pipe - (33)	1.40	0 11:13	1.95	0.72	1.78	1.31	1.00	1.00	113.00	0.10	SURCHARGED
7 Pipe - (34)	4.38	0 11:07	3.96	1.10	3.57	0.52	1.25	1.00	71.00	0.21	SURCHARGED
8 Pipe - (35)	4.39	0 11:07	5.17	0.85	3.58	0.33	1.25	1.00	71.00	0.81	SURCHARGED
9 Pipe - (36)	4.51	0 11:07	5.16	0.87	3.79	0.09	1.25	1.00	72.00	0.83	SURCHARGED
10 Pipe - (37)	4.47	0 11:08	5.19	0.86	4.43	0.67	1.25	1.00	72.00	0.97	SURCHARGED
11 Pipe - (38)	4.46	0 11:08	5.52	0.81	4.04	0.73	1.25	1.00	80.00	0.96	SURCHARGED
12 Pipe - (39)	4.63	0 11:08	5.48	0.84	3.77	0.88	1.25	1.00	96.00	0.18	SURCHARGED
13 Pipe - (40)	2.23	0 11:40	2.02	1.11	2.84	0.84	1.00	1.00	44.00	0.59	SURCHARGED
14 Pipe - (41)	2.32	0 11:40	2.01	1.15	2.95	0.78	1.00	1.00	48.00	0.74	SURCHARGED
15 Pipe - (42)	3.45	0 11:45	5.03	0.69	5.12	0.15	1.00	1.00	54.00	1.52	SURCHARGED
16 Pipe - (43)	3.56	0 11:45	5.04	0.71	4.53	0.45	1.00	1.00	65.00	0.15	SURCHARGED
17 Pipe - (44)	7.76	0 11:45	4.70	1.65	4.39	0.94	1.50	1.00	75.00	0.20	SURCHARGED
18 Pipe - (45)	7.76	0 11:45	6.84	1.13	4.39	0.99	1.50	1.00	75.00	0.39	SURCHARGED
19 Pipe - (46)	8.17	0 11:45	4.70	1.74	4.62	0.09	1.50	1.00	85.00	0.25	SURCHARGED
20 Pipe - (48)	8.37	0 11:45	4.70	1.78	5.11	0.31	1.31	0.87	0.00	0.49	> CAPACITY

Queen Avenue 100-year Flow SWMM Modeling Report



Project Description

File Name SWMM_Queen_100yr.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Dec 22, 1961 06:00:00
End Analysis On Dec 23, 1961 06:00:00
Start Reporting On Dec 22, 1961 06:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:15:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	24
<i>Junctions</i>	23
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	23
<i>Channels</i>	0
<i>Pipes</i>	23
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Ponded Area	Peak Inflow	Max HGL Elevation Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
			(ft)	(ft)	(ft)	(ft)	(ft ²)	(cfs)	(ft)	(ft)	(ft)	(days hh:mm)	(ac-in)	(min)
1	N1	Junction	8.07	11.20	8.07	11.20	0.00	3.43	11.20	0.00	0.00	0 12:00	4.37	267.00
2	N10	Junction	1.70	10.40	1.70	0.00	0.00	4.08	10.40	0.00	0.00	0 12:00	0.01	5.00
3	N11	Junction	1.55	10.40	1.55	0.00	0.00	3.19	10.38	0.00	0.02	0 00:00	0.00	0.00
4	N12	Junction	1.15	10.70	1.15	0.00	0.00	3.29	10.23	0.00	0.47	0 00:00	0.00	0.00
5	N13	Junction	3.85	10.30	3.85	0.00	0.00	4.06	10.30	0.00	0.00	0 12:00	9.02	439.00
6	N14	Junction	3.62	10.20	3.62	0.00	0.00	3.15	10.20	0.00	0.00	0 12:00	13.31	436.00
7	N15	Junction	2.61	10.30	2.61	0.00	0.00	13.23	10.30	0.00	0.00	0 12:00	18.48	346.00
8	N16	Junction	0.62	10.60	0.62	0.00	0.00	6.99	10.11	0.00	0.49	0 00:00	0.00	0.00
9	N17	Junction	3.66	10.50	3.66	0.00	0.00	1.05	4.15	0.00	6.35	0 00:00	0.00	0.00
10	N18	Junction	2.92	10.90	2.92	0.00	0.00	1.61	3.44	0.00	7.46	0 00:00	0.00	0.00
11	N19	Junction	1.65	10.70	1.65	0.00	0.00	7.37	2.81	0.00	7.89	0 00:00	0.00	0.00
12	N2	Junction	8.02	11.00	8.02	11.00	0.00	7.22	11.00	0.00	0.00	0 12:00	2.24	98.00
13	N20	Junction	-0.50	11.00	-0.50	0.00	0.00	7.35	1.08	0.00	9.92	0 00:00	0.00	0.00
14	N21	Junction	-1.16	11.10	-1.16	0.00	0.00	7.18	0.74	0.00	10.36	0 00:00	0.00	0.00
15	N22	Junction	-3.08	11.20	-3.08	0.00	0.00	10.34	0.33	0.00	10.87	0 00:00	0.00	0.00
16	N23	Junction	-4.74	10.70	-4.74	0.00	0.00	30.38	-0.52	0.00	11.22	0 00:00	0.00	0.00
17	N3	Junction	-0.13	10.30	-0.13	10.30	0.00	14.08	10.30	0.00	0.00	0 12:00	14.81	257.00
18	N4	Junction	-1.44	11.20	-1.44	11.20	0.00	10.63	10.34	0.00	0.86	0 00:00	0.00	0.00
19	N5	Junction	-4.32	10.32	-4.32	0.00	0.00	12.64	9.76	0.00	0.56	0 00:00	0.00	0.00
20	N6	Junction	4.18	11.00	4.18	0.00	0.00	2.41	11.00	0.00	0.00	0 09:08	0.01	1.00
21	N7	Junction	3.92	10.50	3.92	0.00	0.00	7.01	10.50	0.00	0.00	0 12:00	12.58	407.00
22	N8	Junction	2.68	10.40	2.68	0.00	0.00	3.54	10.40	0.00	0.00	0 12:00	0.06	17.00
23	N9	Junction	2.26	10.20	10.20	0.00	0.00	10.97	10.20	0.00	0.00	0 12:00	29.86	435.00
24	OUT1	Outfall	-4.74					30.38	-2.88					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Reported	Surcharged Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	P1	Pipe	N1	N2	455.00	8.07	8.02	0.0100	12.000	0.0130	1.29	0.37	3.45	1.85	1.00	1.00	307.00	SURCHARGED
2	P10	Pipe	N10	N11	132.00	1.70	1.55	0.1100	18.000	0.0130	2.99	3.54	0.85	3.78	1.50	1.00	666.00	SURCHARGED
3	P11	Pipe	N11	N12	290.00	1.55	1.15	0.1400	18.000	0.0130	3.20	3.90	0.82	2.74	1.50	1.00	681.00	SURCHARGED
4	P12	Pipe	N12	N16	133.00	1.15	0.62	0.4000	18.000	0.0130	3.29	6.63	0.50	3.94	1.50	1.00	714.00	SURCHARGED
5	P13	Pipe	N13	N14	415.00	3.85	3.62	0.0600	12.000	0.0130	0.79	0.84	0.95	1.32	1.00	1.00	525.00	SURCHARGED
6	P14	Pipe	N14	N15	403.00	3.62	2.61	0.2500	12.000	0.0130	1.26	1.78	0.71	1.66	1.00	1.00	543.00	SURCHARGED
7	P15	Pipe	N15	N16	657.00	2.61	0.62	0.3000	18.000	0.0130	3.65	5.78	0.63	2.07	1.50	1.00	580.00	SURCHARGED
8	P16	Pipe	N16	N23	400.00	0.00	0.00	0.0000	12.000	0.0100	6.99	1.82	3.83	8.90	1.00	1.00	453.00	SURCHARGED
9	P17	Pipe	N17	N18	392.00	3.66	2.92	0.1900	18.000	0.0130	1.04	4.56	0.23	2.00	0.50	0.33	0.00	Calculated
10	P18	Pipe	N18	N19	360.00	2.92	1.65	0.3500	18.000	0.0130	1.59	6.24	0.25	1.64	0.83	0.56	0.00	Calculated
11	P19	Pipe	N19	N20	363.00	1.65	-0.50	0.5900	18.000	0.0130	7.30	8.08	0.90	4.51	1.28	0.89	0.00	Calculated
12	P2	Pipe	N2	N3	461.00	8.02	-0.13	1.7700	18.000	0.0130	3.87	13.97	0.28	3.19	1.50	1.00	294.00	SURCHARGED
13	P20	Pipe	N20	N21	317.00	-0.50	-1.16	0.2100	24.000	0.0130	7.01	10.32	0.68	3.52	1.55	0.87	0.00	Calculated
14	P21	Pipe	N21	N22	374.00	-1.16	-3.08	0.5100	24.000	0.0130	7.20	16.21	0.44	2.74	1.84	0.97	0.00	Calculated
15	P22	Pipe	N22	N23	323.00	-3.08	-4.74	0.5100	24.000	0.0130	10.34	16.22	0.64	3.29	2.00	1.00	91.00	SURCHARGED
16	P23	Pipe	N23	OUT1	49.00	-4.74	-4.74	0.0000	24.000	0.0130	30.38	1.02	29.73	9.78	1.93	0.97	0.00	> CAPACITY
17	P3	Pipe	N3	N4	450.00	-0.13	-1.44	0.2900	21.000	0.0130	7.28	8.55	0.85	3.33	1.75	1.00	399.00	SURCHARGED
18	P4	Pipe	N4	N5	354.00	-1.44	-4.32	0.8100	24.000	0.0130	10.63	20.40	0.52	3.39	2.00	1.00	418.00	SURCHARGED
19	P5	Pipe	N5	N23	51.00	-4.32	-4.74	0.8200	12.000	0.0130	12.64	3.23	3.91	16.09	1.00	1.00	786.00	SURCHARGED
20	P6	Pipe	N6	N7	287.00	4.18	3.92	0.0900	12.000	0.0130	2.37	1.07	2.21	3.08	1.00	1.00	488.00	SURCHARGED
21	P7	Pipe	N7	N8	308.00	3.92	2.68	0.4000	15.000	0.0130	1.86	4.10	0.45	2.18	1.25	1.00	489.00	SURCHARGED
22	P8	Pipe	N8	N9	175.00	2.68	2.26	0.2400	18.000	0.0130	3.10	5.15	0.60	2.16	1.50	1.00	585.00	SURCHARGED
23	P9	Pipe	N9	N10	286.00	2.26	1.70	0.2000	18.000	0.0130	4.08	4.65	0.88	4.38	1.50	1.00	612.00	SURCHARGED

Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (in)
1 N1	8.07	11.20	3.13	8.07	0.00	11.20	0.00	0.00	0.00
2 N10	1.70	10.40	8.70	1.70	0.00	0.00	-10.40	0.00	0.00
3 N11	1.55	10.40	8.85	1.55	0.00	0.00	-10.40	0.00	0.00
4 N12	1.15	10.70	9.55	1.15	0.00	0.00	-10.70	0.00	0.00
5 N13	3.85	10.30	6.45	3.85	0.00	0.00	-10.30	0.00	0.00
6 N14	3.62	10.20	6.58	3.62	0.00	0.00	-10.20	0.00	0.00
7 N15	2.61	10.30	7.69	2.61	0.00	0.00	-10.30	0.00	0.00
8 N16	0.62	10.60	9.98	0.62	0.00	0.00	-10.60	0.00	0.00
9 N17	3.66	10.50	6.84	3.66	0.00	0.00	-10.50	0.00	0.00
10 N18	2.92	10.90	7.98	2.92	0.00	0.00	-10.90	0.00	0.00
11 N19	1.65	10.70	9.05	1.65	0.00	0.00	-10.70	0.00	0.00
12 N2	8.02	11.00	2.98	8.02	0.00	11.00	0.00	0.00	0.00
13 N20	-0.50	11.00	11.50	-0.50	0.00	0.00	-11.00	0.00	0.00
14 N21	-1.16	11.10	12.26	-1.16	0.00	0.00	-11.10	0.00	0.00
15 N22	-3.08	11.20	14.28	-3.08	0.00	0.00	-11.20	0.00	0.00
16 N23	-4.74	10.70	15.44	-4.74	0.00	0.00	-10.70	0.00	0.00
17 N3	-0.13	10.30	10.43	-0.13	0.00	10.30	0.00	0.00	0.00
18 N4	-1.44	11.20	12.64	-1.44	0.00	11.20	0.00	0.00	0.00
19 N5	-4.32	10.32	14.64	-4.32	0.00	0.00	-10.32	0.00	0.00
20 N6	4.18	11.00	6.82	4.18	0.00	0.00	-11.00	0.00	0.00
21 N7	3.92	10.50	6.58	3.92	0.00	0.00	-10.50	0.00	0.00
22 N8	2.68	10.40	7.72	2.68	0.00	0.00	-10.40	0.00	0.00
23 N9	2.26	10.20	7.94	10.20	7.94	0.00	-10.20	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 N1	3.43	3.43	11.20	3.13	0.00	0.00	9.46	1.39	0 10:32	0 12:00	4.37	267.00
2 N10	4.08	3.88	10.40	8.70	0.00	0.00	6.35	4.65	0 11:56	0 12:00	0.01	5.00
3 N11	3.19	1.19	10.38	8.83	0.00	0.02	6.25	4.70	0 11:59	0 00:00	0.00	0.00
4 N12	3.29	0.49	10.23	9.08	0.00	0.47	5.98	4.83	0 11:59	0 00:00	0.00	0.00
5 N13	4.06	4.06	10.30	6.45	0.00	0.00	7.20	3.35	0 04:38	0 12:00	9.02	439.00
6 N14	3.15	2.08	10.20	6.58	0.00	0.00	7.02	3.40	0 04:40	0 12:00	13.31	436.00
7 N15	13.23	13.23	10.30	7.69	0.00	0.00	6.67	4.06	0 10:03	0 12:00	18.48	346.00
8 N16	6.99	2.54	10.11	9.49	0.00	0.49	5.83	5.21	0 11:59	0 00:00	0.00	0.00
9 N17	1.05	1.05	4.15	0.49	0.00	6.35	3.87	0.21	0 12:00	0 00:00	0.00	0.00
10 N18	1.61	0.58	3.44	0.52	0.00	7.46	3.14	0.22	0 12:01	0 00:00	0.00	0.00
11 N19	7.37	5.82	2.81	1.16	0.00	7.89	2.08	0.43	0 12:00	0 00:00	0.00	0.00
12 N2	7.22	6.50	11.00	2.98	0.00	0.00	9.15	1.13	0 10:32	0 12:00	2.24	98.00
13 N20	7.35	0.05	1.08	1.58	0.00	9.92	0.05	0.55	0 12:04	0 00:00	0.00	0.00
14 N21	7.18	0.17	0.74	1.90	0.00	10.36	-0.73	0.43	0 12:04	0 00:00	0.00	0.00
15 N22	10.34	3.54	0.33	3.41	0.00	10.87	-2.11	0.97	0 12:04	0 00:00	0.00	0.00
16 N23	30.38	0.68	-0.52	4.22	0.00	11.22	-2.65	2.09	0 12:03	0 00:00	0.00	0.00
17 N3	14.08	9.49	10.30	10.43	0.00	0.00	4.16	4.29	0 10:32	0 12:00	14.81	257.00
18 N4	10.63	9.02	10.34	11.78	0.00	0.86	3.11	4.55	0 11:59	0 00:00	0.00	0.00
19 N5	12.64	4.28	9.76	14.08	0.00	0.56	1.58	5.90	0 11:59	0 00:00	0.00	0.00
20 N6	2.41	0.14	11.00	6.82	0.00	0.00	7.32	3.14	0 04:40	0 09:08	0.01	1.00
21 N7	7.01	6.86	10.50	6.58	0.00	0.00	7.28	3.36	0 09:07	0 12:00	12.58	407.00
22 N8	3.54	2.45	10.40	7.72	0.00	0.00	6.71	4.03	0 11:49	0 12:00	0.06	17.00
23 N9	10.97	5.33	10.20	7.94	0.00	0.00	6.52	4.26	0 04:40	0 12:00	29.86	435.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Pipe Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow Gate	Flap	No. of Barrels
1	P1	455.00	8.07	0.00	8.02	0.00	0.05	0.0100	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
2	P10	132.00	1.70	0.00	1.55	0.00	0.15	0.1100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
3	P11	290.00	1.55	0.00	1.15	0.00	0.40	0.1400	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
4	P12	133.00	1.15	0.00	0.62	0.00	0.53	0.4000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
5	P13	415.00	3.85	0.00	3.62	0.00	0.23	0.0600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
6	P14	403.00	3.62	0.00	2.61	0.00	1.01	0.2500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
7	P15	657.00	2.61	0.00	0.62	0.00	1.99	0.3000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
8	P16	400.00	0.00	-0.62	0.00	4.74	0.00	0.0000	CIRCULAR	12.000	12.000	0.0100	0.0000	0.0000	0.0000	0.00	No	1
9	P17	392.00	3.66	0.00	2.92	0.00	0.74	0.1900	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
10	P18	360.00	2.92	0.00	1.65	0.00	1.27	0.3500	CIRCULAR	18.000	18.000	0.0130	0.0000	0.0000	0.0000	0.00	No	1
11	P19	363.00	1.65	0.00	-0.50	0.00	2.15	0.5900	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
12	P2	461.00	8.02	0.00	-0.13	0.00	8.15	1.7700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
13	P20	317.00	-0.50	0.00	-1.16	0.00	0.66	0.2100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
14	P21	374.00	-1.16	0.00	-3.08	0.00	1.92	0.5100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
15	P22	323.00	-3.08	0.00	-4.74	0.00	1.66	0.5100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
16	P23	49.00	-4.74	0.00	-4.74	0.00	0.00	0.0000	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
17	P3	450.00	-0.13	0.00	-1.44	0.00	1.31	0.2900	CIRCULAR	21.000	21.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
18	P4	354.00	-1.44	0.00	-4.32	0.00	2.88	0.8100	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
19	P5	51.00	-4.32	0.00	-4.74	0.00	0.42	0.8200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
20	P6	287.00	4.18	0.00	3.92	0.00	0.26	0.0900	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
21	P7	308.00	3.92	0.00	2.68	0.00	1.24	0.4000	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
22	P8	175.00	2.68	0.00	2.26	0.00	0.42	0.2400	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1
23	P9	286.00	2.26	0.00	1.70	0.00	0.56	0.2000	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No	1

Pipe Results

SN	Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
		(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
1	P1	1.29	0 10:32	0.37	3.45	1.85	4.10	1.00	1.00	307.00	0.20	SURCHARGED
2	P10	2.99	0 16:23	3.54	0.85	3.78	0.58	1.50	1.00	666.00	0.15	SURCHARGED
3	P11	3.20	0 04:40	3.90	0.82	2.74	1.76	1.50	1.00	681.00	0.18	SURCHARGED
4	P12	3.29	0 04:40	6.63	0.50	3.94	0.56	1.50	1.00	714.00	0.11	SURCHARGED
5	P13	0.79	0 09:07	0.84	0.95	1.32	5.24	1.00	1.00	525.00	0.14	SURCHARGED
6	P14	1.26	0 09:07	1.78	0.71	1.66	4.05	1.00	1.00	543.00	0.18	SURCHARGED
7	P15	3.65	0 09:07	5.78	0.63	2.07	5.29	1.50	1.00	580.00	0.12	SURCHARGED
8	P16	6.99	0 11:59	1.82	3.83	8.90	0.75	1.00	1.00	453.00	0.38	SURCHARGED
9	P17	1.04	0 12:01	4.56	0.23	2.00	3.27	0.50	0.33	0.00	0.53	Calculated
10	P18	1.59	0 12:01	6.24	0.25	1.64	3.66	0.83	0.56	0.00	0.38	Calculated
11	P19	7.30	0 12:01	8.08	0.90	4.51	1.34	1.28	0.89	0.00	0.79	Calculated
12	P2	3.87	0 11:58	13.97	0.28	3.19	2.41	1.50	1.00	294.00	0.43	SURCHARGED
13	P20	7.01	0 12:02	10.32	0.68	3.52	1.50	1.55	0.87	0.00	0.70	Calculated
14	P21	7.20	0 12:07	16.21	0.44	2.74	2.27	1.84	0.97	0.00	0.58	Calculated
15	P22	10.34	0 12:04	16.22	0.64	3.29	1.64	2.00	1.00	91.00	0.13	SURCHARGED
16	P23	30.38	0 12:04	1.02	29.73	9.78	0.08	1.93	0.97	0.00	0.71	> CAPACITY
17	P3	7.28	0 14:58	8.55	0.85	3.33	2.25	1.75	1.00	399.00	0.42	SURCHARGED
18	P4	10.63	0 14:55	20.40	0.52	3.39	1.74	2.00	1.00	418.00	0.28	SURCHARGED
19	P5	12.64	0 11:50	3.23	3.91	16.09	0.05	1.00	1.00	786.00	0.12	SURCHARGED
20	P6	2.37	0 09:08	1.07	2.21	3.08	1.55	1.00	1.00	488.00	0.03	SURCHARGED
21	P7	1.86	0 09:07	4.10	0.45	2.18	2.35	1.25	1.00	489.00	0.26	SURCHARGED
22	P8	3.10	0 12:06	5.15	0.60	2.16	1.35	1.50	1.00	585.00	0.19	SURCHARGED
23	P9	4.08	0 00:00	4.65	0.88	4.38	1.09	1.50	1.00	612.00	0.16	SURCHARGED

Emerson Avenue 100-year Flow SWMM Modeling Report

Project Description

File Name EMERSON BASIN - EXIST 100 YEAR FLOW.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 14, 1971 12:00:00
End Analysis On Jan 15, 1971 12:00:00
Start Reporting On Jan 14, 1971 12:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	71
<i>Junctions</i>	70
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	70
<i>Channels</i>	0
<i>Pipes</i>	70
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	CBSD-32	Junction	14.96	16.30	14.96	16.30	0.00	9.31	16.30	0.00	0.00	0 12:45	2.61	49.00
2	OS-11A	Junction	0.77	2.93	0.77	2.93	0.00	8.22	2.85	0.00	0.08	0 00:00	0.00	0.00
3	OS-12	Junction	0.92	3.08	0.92	3.08	0.00	6.80	3.08	0.00	0.00	0 12:45	0.21	27.00
4	OS-127	Junction	2.27	3.88	2.27	3.88	0.00	6.50	3.88	0.00	0.00	0 12:45	5.49	163.00
5	OS-13	Junction	1.12	3.28	1.12	3.28	0.00	7.97	3.28	0.00	0.00	0 12:45	1.33	47.00
6	OS-14	Junction	2.02	3.63	2.02	3.63	0.00	7.69	3.63	0.00	0.00	0 12:45	4.33	133.00
7	OS-15	Junction	2.14	3.75	2.14	3.75	0.00	7.10	3.75	0.00	0.00	0 12:45	4.11	193.00
8	OS-153	Junction	3.18	4.52	3.18	4.52	0.00	7.29	4.52	0.00	0.00	0 12:45	3.82	126.00
9	OS-16	Junction	2.26	10.48	2.26	10.48	0.00	2.97	3.92	0.00	6.55	0 00:00	0.00	0.00
10	OS-165	Junction	4.24	5.32	4.24	5.32	0.00	8.15	5.32	0.00	0.00	0 12:45	5.02	123.00
11	OS-17	Junction	2.90	4.24	2.90	4.24	0.00	3.07	4.14	0.00	0.10	0 00:00	0.00	0.00
12	OS-18	Junction	2.75	4.09	2.75	4.09	0.00	6.24	4.09	0.00	0.00	0 12:45	8.19	259.00
13	OS-19	Junction	3.26	4.60	3.26	4.60	0.00	2.72	4.50	0.00	0.10	0 00:00	0.00	0.00
14	OS-2	Junction	0.00	2.16	0.00	2.16	0.00	5.89	0.57	0.00	1.59	0 00:00	0.00	0.00
15	OS-20	Junction	3.38	4.46	3.38	4.46	0.00	6.39	4.46	0.00	0.00	0 12:45	10.89	294.00
16	OS-21	Junction	4.07	5.15	4.07	5.15	0.00	11.54	5.15	0.00	0.00	0 12:45	9.90	165.00
17	OS-22	Junction	4.98	6.06	4.98	6.06	0.00	8.31	6.06	0.00	0.00	0 12:45	4.65	117.00
18	OS-29	Junction	2.10	3.00	2.10	3.00	0.00	2.29	3.00	0.00	0.00	0 12:45	1.03	75.00
19	OS-31	Junction	2.32	3.40	2.32	3.40	0.00	3.36	3.40	0.00	0.00	0 12:45	4.33	198.00
20	OS-33	Junction	2.80	3.88	2.80	3.88	0.00	3.46	3.88	0.00	0.00	0 12:45	7.08	252.00
21	OS-35	Junction	4.08	5.16	4.08	5.16	0.00	2.71	5.16	0.00	0.00	0 12:45	0.53	63.00
22	OS-5	Junction	-0.84	1.32	-0.84	1.32	0.00	5.70	1.18	0.00	0.14	0 00:00	0.00	0.00
23	OS-58	Junction	3.62	4.70	3.62	4.70	0.00	4.76	4.70	0.00	0.00	0 12:45	2.75	129.00
24	OS-60	Junction	4.42	5.50	4.42	5.50	0.00	8.26	5.50	0.00	0.00	0 12:45	3.62	94.00
25	OS-62	Junction	4.31	5.39	4.31	5.39	0.00	5.59	5.39	0.00	0.00	0 12:45	3.69	118.00
26	OS-7	Junction	-0.74	5.09	-0.74	5.09	0.00	5.62	1.29	0.00	3.79	0 00:00	0.00	0.00
27	OS-8	Junction	-0.75	1.41	-0.75	1.41	0.00	14.30	1.41	0.00	0.00	0 12:45	17.66	320.00
28	OS-82	Junction	4.98	6.06	4.98	6.06	0.00	10.30	6.06	0.00	0.00	0 12:45	5.90	116.00
29	OS-9	Junction	0.22	2.38	0.22	2.38	0.00	10.40	2.32	0.00	0.06	0 00:00	0.00	0.00
30	OS-90	Junction	15.00	16.08	15.00	16.08	0.00	3.38	15.52	0.00	0.55	0 00:00	0.00	0.00
31	PUMP HOUSE	Junction	-6.72	0.22	-6.72	0.22	0.00	60.96	-4.31	0.00	4.53	0 00:00	0.00	0.00
32	SD-1	Junction	-6.70	-2.92	-6.70	-2.92	0.00	60.96	-3.05	0.00	0.14	0 00:00	0.00	0.00
33	SD-10	Junction	1.70	3.86	1.70	3.86	0.00	11.20	3.60	0.00	0.26	0 00:00	0.00	0.00
34	SD-11	Junction	2.10	4.26	2.10	4.26	0.00	8.45	3.82	0.00	0.44	0 00:00	0.00	0.00
35	SD-12	Junction	1.85	4.01	1.85	4.01	0.00	16.24	4.01	0.00	0.00	0 12:45	5.05	56.00
36	SD-13	Junction	2.95	4.29	2.95	4.29	0.00	2.11	4.29	0.00	0.00	0 12:45	0.06	18.00
37	SD-14	Junction	4.96	6.85	4.96	6.85	0.00	10.72	6.34	0.00	0.51	0 00:00	0.00	0.00
38	SD-17	Junction	6.12	7.20	6.12	7.20	0.00	0.96	6.49	0.00	0.71	0 00:00	0.00	0.00
39	SD-18	Junction	3.55	5.71	3.55	5.71	0.00	10.39	4.81	0.00	0.90	0 00:00	0.00	0.00
40	SD-1A	Junction	-3.64	-0.40	-3.64	-0.40	0.00	26.03	-1.49	0.00	1.09	0 00:00	0.00	0.00
41	SD-2	Junction	-5.60	-1.82	-5.60	-1.82	0.00	45.09	-2.04	0.00	0.22	0 00:00	0.00	0.00
42	SD-20	Junction	6.92	8.81	6.92	8.81	0.00	5.96	7.76	0.00	1.05	0 00:00	0.00	0.00
43	SD-200	Junction	35.77	37.11	35.77	37.11	0.00	0.00	35.77	0.00	1.34	0 00:00	0.00	0.00
44	SD-21	Junction	6.15	7.76	6.15	7.76	0.00	16.95	7.76	0.00	0.00	0 12:45	23.93	224.00
45	SD-2A	Junction	-4.00	-0.76	-4.00	-0.76	0.00	25.80	-1.01	0.00	0.25	0 00:00	0.00	0.00
46	SD-3	Junction	-3.44	-0.72	-3.44	-0.72	0.00	18.28	-1.35	0.00	0.63	0 00:00	0.00	0.00
47	SD-30	Junction	10.80	12.45	10.80	12.45	0.00	16.52	12.45	0.00	0.00	0 12:23	2.75	53.00
48	SD-30A	Junction	-1.28	0.88	-1.28	0.88	0.00	10.03	-0.69	0.00	1.57	0 00:00	0.00	0.00
49	SD-31	Junction	13.75	15.36	13.75	15.36	0.00	22.11	15.36	0.00	0.00	0 12:45	1.42	30.00
50	SD-31A	Junction	3.58	4.66	3.58	4.66	0.00	1.17	3.77	0.00	0.89	0 00:00	0.00	0.00
51	SD-32A	Junction	8.02	9.10	8.02	9.10	0.00	0.86	8.35	0.00	0.75	0 00:00	0.00	0.00
52	SD-33	Junction	-0.70	1.46	-0.70	1.46	0.00	8.67	0.57	0.00	0.89	0 00:00	0.00	0.00
53	SD-34	Junction	0.22	2.38	0.22	2.38	0.00	7.82	1.55	0.00	0.83	0 00:00	0.00	0.00
54	SD-3A	Junction	-2.03	0.69	-2.03	0.69	0.00	27.77	0.69	0.00	0.00	0 12:45	0.81	27.00
55	SD-4	Junction	-3.36	-0.64	-3.36	-0.64	0.00	21.60	-0.64	0.00	0.00	0 12:46	1.98	34.00
56	SD-48	Junction	2.55	4.44	2.55	4.44	0.00	2.63	3.03	0.00	1.41	0 00:00	0.00	0.00
57	SD-4A	Junction	-1.24	1.48	-1.24	1.48	0.00	24.45	1.48	0.00	0.00	0 12:45	2.78	33.00
58	SD-5	Junction	-1.85	0.87	-1.85	0.87	0.00	20.81	0.26	0.00	0.60	0 00:00	0.00	0.00
59	SD-50	Junction	3.22	4.30	3.22	4.30	0.00	2.62	3.67	0.00	0.63	0 00:00	0.00	0.00
60	SD-51	Junction	4.49	5.57	4.49	5.57	0.00	1.18	4.97	0.00	0.59	0 00:00	0.00	0.00
61	SD-51A	Junction	3.00	4.61	3.00	4.61	0.00	0.01	3.04	0.00	1.58	0 00:00	0.00	0.00
62	SD-54	Junction	3.00	4.61	3.00	4.61	0.00	0.00	3.01	0.00	1.60	0 00:00	0.00	0.00
63	SD-5A	Junction	1.35	3.51	1.35	3.51	0.00	14.65	3.27	0.00	0.25	0 00:00	0.00	0.00
64	SD-6	Junction	-0.70	1.74	-0.70	1.74	0.00	16.13	1.30	0.00	0.44	0 00:00	0.00	0.00
65	SD-6A	Junction	3.12	10.11	3.12	10.11	0.00	11.78	4.87	0.00	5.24	0 00:00	0.00	0.00
66	SD-7	Junction	0.95	10.82	0.95	10.82	0.00	15.48	2.48	0.00	8.34	0 00:00	0.00	0.00
67	SD-8	Junction	5.35	6.87	5.35	6.87	0.00	3.29	5.95	0.00	0.92	0 00:00	0.00	0.00
68	SD-80	Junction	9.05	10.66	9.05	10.66	0.00	0.99	9.32	0.00	1.34	0 00:00	0.00	0.00
69	SD-82	Junction	6.82	8.43	6.82	8.43	0.00	10.25	8.43	0.00	0.00	0 12:45	0.11	10.00
70	SD-8A	Junction	16.02	17.36	16.02	17.36	0.00	0.00	16.02	0.00	1.34	0 00:00	0.00	0.00
71	Out-1Pipe - (145)	Outfall	-6.92					60.96	-5.07					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged (min)	Reported Condition
1	Pipe - (102)	Pipe	OS-62	OS-35	336.80	4.31	4.08	0.0700	12.000	0.0130	1.31	1.59	0.82	1.72	1.00	1.00	94.00	SURCHARGED
2	Pipe - (103)	Pipe	OS-35	OS-19	299.99	4.08	3.26	0.2700	12.000	0.0130	1.64	1.86	0.88	2.09	1.00	1.00	94.00	SURCHARGED
3	Pipe - (106)	Pipe	OS-60	OS-33	329.29	4.42	2.80	0.4900	12.000	0.0130	2.43	2.50	0.97	3.13	1.00	1.00	98.00	SURCHARGED
4	Pipe - (107)	Pipe	OS-33	OS-16	309.60	2.80	2.26	0.1700	12.000	0.0130	0.74	1.59	0.46	1.38	1.00	1.00	262.00	SURCHARGED
5	Pipe - (11)	Pipe	SD-11	SD-10	148.20	2.10	1.70	0.2700	24.000	0.0130	8.27	11.75	0.70	2.99	1.81	0.91	0.00	Calculated
6	Pipe - (112)	Pipe	OS-90	OS-82	320.17	15.00	4.98	3.1300	12.000	0.0130	3.38	6.30	0.54	5.27	0.76	0.76	0.00	Calculated
7	Pipe - (113)	Pipe	OS-82	OS-58	327.14	4.98	3.62	0.4200	12.000	0.0130	2.21	2.30	0.96	3.00	1.00	1.00	118.00	SURCHARGED
8	Pipe - (114)	Pipe	OS-58	OS-31	332.09	3.62	2.32	0.3900	12.000	0.0130	2.14	2.23	0.96	2.75	1.00	1.00	131.00	SURCHARGED
9	Pipe - (115)	Pipe	OS-31	OS-13	304.81	2.32	1.12	0.3900	12.000	0.0130	1.36	2.24	0.61	1.74	1.00	1.00	206.00	SURCHARGED
10	Pipe - (12)	Pipe	SD-10	SD-7	351.53	1.70	0.95	0.2100	24.000	0.0130	11.18	10.45	1.07	3.98	1.72	0.86	0.00	> CAPACITY
11	Pipe - (130)	Pipe	CBSD-32	SD-31	274.03	14.96	13.75	0.4400	15.000	0.0130	4.55	4.29	1.06	3.78	1.25	1.00	40.00	SURCHARGED
12	Pipe - (134)	Pipe	SD-31	SD-30	64.27	13.75	10.08	5.7100	18.000	0.0130	16.47	22.50	0.73	9.38	1.50	1.00	31.00	SURCHARGED
13	Pipe - (135)	Pipe	SD-30	SD-21	267.89	10.80	6.15	1.7400	18.000	0.0130	13.08	13.84	0.95	7.52	1.50	1.00	55.00	SURCHARGED
14	Pipe - (136)	Pipe	SD-21	SD-20	33.80	6.15	6.92	-2.2800	18.000	0.0130	2.69	15.86	0.17	2.00	1.17	0.78	0.00	Calculated
15	Pipe - (137)	Pipe	SD-20	SD-14	355.68	6.92	4.96	0.5500	21.000	0.0130	5.52	11.76	0.47	3.96	1.11	0.64	0.00	Calculated
16	Pipe - (138)	Pipe	SD-14	SD-6A	304.44	4.96	3.12	0.6000	21.000	0.0130	10.62	12.32	0.86	4.73	1.55	0.89	0.00	Calculated
17	Pipe - (139)	Pipe	SD-6A	SD-5A	620.98	3.12	1.35	0.2900	24.000	0.0130	11.59	12.08	0.96	4.32	1.79	0.92	0.00	Calculated
18	Pipe - (140)	Pipe	SD-5A	SD-4A	407.77	1.35	-1.24	0.6400	24.000	0.0130	14.36	18.03	0.80	4.60	1.93	0.98	0.00	Calculated
19	Pipe - (141)	Pipe	SD-4A	SD-3A	385.27	-1.24	-2.03	0.2100	30.000	0.0130	17.70	18.57	0.95	4.05	2.50	1.00	34.00	SURCHARGED
20	Pipe - (142)	Pipe	SD-3A	SD-2A	380.47	-2.03	-4.00	0.5200	30.000	0.0130	24.97	29.51	0.85	5.09	2.50	1.00	34.00	SURCHARGED
21	Pipe - (143)	Pipe	SD-2A	SD-1A	79.03	-4.00	-3.64	-0.4600	36.000	0.0130	25.67	45.02	0.57	4.56	2.57	0.86	0.00	Calculated
22	Pipe - (144)	Pipe	SD-1A	SD-2	296.77	-3.64	-5.60	0.6600	36.000	0.0130	25.88	54.20	0.48	4.57	2.57	0.86	0.00	Calculated
23	Pipe - (145)	Pipe	PUMP HOUSE	Out-1Pipe - (145)	41.34	-6.72	-6.92	0.4800	72.000	0.0130	60.96	294.56	0.21	6.77	2.13	0.36	0.00	Calculated
24	Pipe - (146)	Pipe	OS-29	OS-11A	306.66	2.10	0.77	0.4300	10.000	0.0130	0.80	1.44	0.55	1.60	0.83	1.00	81.00	SURCHARGED
25	Pipe - (147)	Pipe	SD-8	SD-7	362.60	5.35	0.95	1.2100	15.000	0.0130	3.27	7.12	0.46	3.37	0.92	0.74	0.00	Calculated
26	Pipe - (15)	Pipe	SD-13	SD-12	344.33	2.95	1.85	0.3200	15.000	0.0130	1.74	3.65	0.48	1.41	1.25	1.00	31.00	SURCHARGED
27	Pipe - (16)	Pipe	SD-7	SD-6	346.76	0.95	-0.70	0.4800	27.000	0.0130	15.43	21.36	0.72	4.72	1.75	0.78	0.00	Calculated
28	Pipe - (17)	Pipe	SD-6	SD-5	333.85	-0.70	-1.85	0.3400	27.000	0.0130	16.05	18.18	0.88	4.70	2.04	0.91	0.00	Calculated
29	Pipe - (18)	Pipe	SD-5	SD-4	297.19	-1.85	-3.36	0.5100	30.000	0.0130	20.79	29.24	0.71	4.39	2.30	0.92	0.00	Calculated
30	Pipe - (19)	Pipe	SD-4	SD-3	389.78	-3.36	-3.44	0.0200	30.000	0.0130	17.41	18.34	0.95	4.00	2.29	0.92	0.00	Calculated
31	Pipe - (20)	Pipe	SD-3	SD-2	358.55	-3.44	-5.60	0.6000	30.000	0.0130	17.79	31.84	0.56	4.10	2.29	0.92	0.00	Calculated
32	Pipe - (21)	Pipe	SD-2	SD-1	336.06	-5.60	-6.70	0.3300	42.000	0.0130	45.10	57.56	0.78	4.71	3.50	1.00	15.00	SURCHARGED
33	Pipe - (22)	Pipe	SD-1	PUMP HOUSE	50.00	-6.70	-6.72	0.0400	42.000	0.0130	60.96	44.99	1.35	7.03	2.96	0.84	0.00	> CAPACITY
34	Pipe - (25)	Pipe	SD-51	SD-50	219.31	4.49	3.22	0.5800	12.000	0.0130	1.17	2.71	0.43	3.28	0.46	0.46	0.00	Calculated
35	Pipe - (26)	Pipe	SD-50	SD-5	160.00	3.22	-1.85	3.1700	12.000	0.0130	2.61	6.34	0.41	4.29	0.72	0.72	0.00	Calculated
36	Pipe - (37)	Pipe	SD-200	SD-8A	384.17	35.77	16.02	5.1400	15.000	0.0130	0.00	14.65	0.00	0.00	0.00	0.00	0.00	Calculated
37	Pipe - (38)	Pipe	SD-8A	SD-80	353.49	16.02	9.05	1.9700	15.000	0.0130	0.00	9.07	0.00	0.00	0.13	0.11	0.00	Calculated
38	Pipe - (40)	Pipe	SD-80	SD-82	122.69	9.05	6.82	1.8200	18.000	0.0130	0.99	14.16	0.07	0.94	0.88	0.59	0.00	Calculated
39	Pipe - (41)	Pipe	SD-82	SD-18	457.23	6.82	3.55	0.7200	18.000	0.0130	9.07	8.88	1.02	5.54	1.38	0.92	0.00	> CAPACITY
40	Pipe - (42)	Pipe	SD-18	SD-12	339.78	3.55	1.85	0.5000	24.000	0.0130	10.37	16.00	0.65	3.78	1.63	0.81	0.00	Calculated
41	Pipe - (46)	Pipe	SD-32A	SD-31A	272.65	8.02	3.58	1.6300	12.000	0.0130	0.85	4.55	0.19	5.41	0.26	0.26	0.00	Calculated
42	Pipe - (47)	Pipe	SD-31A	SD-30A	25.16	3.58	-1.28	19.3200	12.000	0.0130	1.17	15.66	0.07	4.15	0.39	0.39	0.00	Calculated
43	Pipe - (49)	Pipe	SD-30A	SD-1	101.35	-1.28	-6.70	5.3500	24.000	0.0130	10.03	52.31	0.19	4.66	1.30	0.65	0.00	Calculated
44	Pipe - (55)	Pipe	SD-54	SD-51A	396.65	3.00	3.00	0.0000	18.000	0.0130	0.00	4.70	0.00	0.06	0.02	0.01	0.00	Calculated
45	Pipe - (56)	Pipe	SD-51A	SD-48	409.94	3.00	2.55	0.1100	18.000	0.0130	0.01	4.70	0.00	0.06	0.26	0.17	0.00	Calculated
46	Pipe - (57)	Pipe	SD-48	SD-34	240.64	2.55	0.22	0.9700	21.000	0.0130	2.60	15.59	0.17	2.06	0.91	0.52	0.00	Calculated
47	Pipe - (58)	Pipe	SD-34	SD-33	375.99	0.22	-0.70	0.2400	24.000	0.0130	7.74	11.19	0.69	3.58	1.30	0.65	0.00	Calculated
48	Pipe - (59)	Pipe	SD-33	SD-30A	191.84	-0.70	-1.28	0.3000	24.000	0.0130	8.64	12.44	0.69	6.03	0.93	0.47	0.00	Calculated
49	Pipe - (7)	Pipe	SD-17	SD-13	373.82	6.12	2.95	0.8500	12.000	0.0130	0.96	3.28	0.29	1.67	0.68	0.69	0.00	Calculated
50	Pipe - (77)	Pipe	OS-22	OS-21	306.98	4.98	4.07	0.3000	12.000	0.0130	1.85	1.94	0.95	2.35	1.00	1.00	119.00	SURCHARGED
51	Pipe - (78)	Pipe	OS-21	OS-20	190.87	4.07	3.38	0.3600	12.000	0.0130	1.98	2.14	0.93	2.52	1.00	1.00	178.00	SURCHARGED
52	Pipe - (79)	Pipe	OS-20	OS-19	153.13	3.38	3.26	0.0800	12.000	0.0130	1.41	1.59	0.88	1.81	1.00	1.00	268.00	SURCHARGED
53	Pipe - (80)	Pipe	OS-19	OS-18	318.56	3.26	2.75	0.1600	15.000	0.0130	2.19	2.89	0.76	1.79	1.24	1.00	0.00	Calculated
54	Pipe - (81)	Pipe	OS-18	OS-17	64.43	2.75	2.90	-0.2300	15.000	0.0130	2.01	3.12	0.65	1.86	1.24	1.00	0.00	Calculated
55	Pipe - (82)	Pipe	OS-17	OS-16	269.12	2.90	2.26	0.2400	15.000	0.0130	2.19	3.15	0.70	1.94	1.24	1.00	0.00	Calculated
56	Pipe - (83)	Pipe	OS-16	OS-15	276.21	2.26	2.14	0.0400	18.000	0.0130	2.78	4.70	0.59	1.75	1.50	1.00	227.00	SURCHARGED

Link Summary

SN Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Reported Surcharged Condition	
				(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
57	Pipe - (84)	Pipe	OS-15	OS-14	44.70	2.14	2.02	0.2700	18.000	0.0130	4.20	5.44	0.77	2.80	1.50	1.00	221.00 SURCHARGED
58	Pipe - (85)	Pipe	OS-14	OS-13	333.43	2.02	1.12	0.2700	18.000	0.0130	4.57	5.46	0.84	2.59	1.50	1.00	221.00 SURCHARGED
59	Pipe - (86)	Pipe	OS-13	OS-12	319.08	1.12	0.92	0.0600	24.000	0.0130	6.38	10.12	0.63	2.16	2.00	1.00	61.00 SURCHARGED
60	Pipe - (87)	Pipe	OS-12	OS-11A	304.65	0.92	0.77	0.0500	24.000	0.0130	6.76	10.12	0.67	2.35	2.00	1.00	32.00 SURCHARGED
61	Pipe - (88)	Pipe	OS-11A	OS-9	410.06	0.77	0.22	0.1300	24.000	0.0130	8.14	10.12	0.80	2.68	2.00	1.00	28.00 SURCHARGED
62	Pipe - (89)	Pipe	OS-9	OS-8	349.30	0.22	-0.75	0.2800	24.000	0.0130	10.39	11.92	0.87	3.31	2.00	1.00	28.00 SURCHARGED
63	Pipe - (9)	Pipe	SD-12	SD-11	162.73	1.85	2.10	-0.1500	24.000	0.0130	7.94	10.12	0.78	2.67	1.86	0.93	0.00 Calculated
64	Pipe - (90)	Pipe	OS-8	OS-7	223.55	-0.75	-0.74	0.0000	24.000	0.0130	5.39	10.12	0.53	1.72	2.00	1.00	70.00 SURCHARGED
65	Pipe - (91)	Pipe	OS-7	OS-5	107.24	-0.74	-0.84	0.0900	24.000	0.0130	5.62	10.12	0.56	1.79	2.00	1.00	38.00 SURCHARGED
66	Pipe - (92)	Pipe	OS-5	OS-2	139.78	-0.84	0.00	-0.6000	24.000	0.0130	5.70	17.54	0.33	2.67	1.29	0.64	0.00 Calculated
67	Pipe - (93)	Pipe	OS-2	SD-1	313.88	0.00	-6.70	2.1300	24.000	0.0130	5.89	33.05	0.18	3.67	1.29	0.64	0.00 Calculated
68	Pipe - (97)	Pipe	OS-165	OS-153	374.39	4.24	3.18	0.2800	12.000	0.0130	1.57	1.90	0.83	2.01	1.00	1.00	125.00 SURCHARGED
69	Pipe - (98)	Pipe	OS-153	OS-127	371.01	3.18	2.27	0.2500	15.000	0.0130	2.54	3.20	0.79	2.07	1.25	1.00	131.00 SURCHARGED
70	Pipe - (99)	Pipe	OS-127	OS-15	309.61	2.27	2.14	0.0400	18.000	0.0130	1.98	4.70	0.42	1.12	1.50	1.00	213.00 SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	CBSD-32	14.96	16.30	1.34	14.96	0.00	16.30	0.00	0.00	0.00
2	OS-11A	0.77	2.93	2.16	0.77	0.00	2.93	0.00	0.00	0.00
3	OS-12	0.92	3.08	2.16	0.92	0.00	3.08	0.00	0.00	0.00
4	OS-127	2.27	3.88	1.61	2.27	0.00	3.88	0.00	0.00	0.00
5	OS-13	1.12	3.28	2.16	1.12	0.00	3.28	0.00	0.00	0.00
6	OS-14	2.02	3.63	1.61	2.02	0.00	3.63	0.00	0.00	0.00
7	OS-15	2.14	3.75	1.61	2.14	0.00	3.75	0.00	0.00	0.00
8	OS-153	3.18	4.52	1.34	3.18	0.00	4.52	0.00	0.00	0.00
9	OS-16	2.26	10.48	8.22	2.26	0.00	10.48	0.00	0.00	0.00
10	OS-165	4.24	5.32	1.08	4.24	0.00	5.32	0.00	0.00	0.00
11	OS-17	2.90	4.24	1.34	2.90	0.00	4.24	0.00	0.00	0.00
12	OS-18	2.75	4.09	1.34	2.75	0.00	4.09	0.00	0.00	0.00
13	OS-19	3.26	4.60	1.34	3.26	0.00	4.60	0.00	0.00	0.00
14	OS-2	0.00	2.16	2.16	0.00	0.00	2.16	0.00	0.00	0.00
15	OS-20	3.38	4.46	1.08	3.38	0.00	4.46	0.00	0.00	0.00
16	OS-21	4.07	5.15	1.08	4.07	0.00	5.15	0.00	0.00	0.00
17	OS-22	4.98	6.06	1.08	4.98	0.00	6.06	0.00	0.00	0.00
18	OS-29	2.10	3.00	0.90	2.10	0.00	3.00	0.00	0.00	0.00
19	OS-31	2.32	3.40	1.08	2.32	0.00	3.40	0.00	0.00	0.00
20	OS-33	2.80	3.88	1.08	2.80	0.00	3.88	0.00	0.00	0.00
21	OS-35	4.08	5.16	1.08	4.08	0.00	5.16	0.00	0.00	0.00
22	OS-5	-0.84	1.32	2.16	-0.84	0.00	1.32	0.00	0.00	0.00
23	OS-58	3.62	4.70	1.08	3.62	0.00	4.70	0.00	0.00	0.00
24	OS-60	4.42	5.50	1.08	4.42	0.00	5.50	0.00	0.00	0.00
25	OS-62	4.31	5.39	1.08	4.31	0.00	5.39	0.00	0.00	0.00
26	OS-7	-0.74	5.09	5.83	-0.74	0.00	5.09	0.00	0.00	0.00
27	OS-8	-0.75	1.41	2.16	-0.75	0.00	1.41	0.00	0.00	0.00
28	OS-82	4.98	6.06	1.08	4.98	0.00	6.06	0.00	0.00	0.00
29	OS-9	0.22	2.38	2.16	0.22	0.00	2.38	0.00	0.00	0.00
30	OS-90	15.00	16.08	1.08	15.00	0.00	16.08	0.00	0.00	0.00
31	PUMP HOUSE	-6.72	0.22	6.94	-6.72	0.00	0.22	0.00	0.00	0.00
32	SD-1	-6.70	-2.92	3.79	-6.70	0.00	-2.92	0.00	0.00	0.00
33	SD-10	1.70	3.86	2.16	1.70	0.00	3.86	0.00	0.00	0.00
34	SD-11	2.10	4.26	2.16	2.10	0.00	4.26	0.00	0.00	0.00
35	SD-12	1.85	4.01	2.16	1.85	0.00	4.01	0.00	0.00	0.00
36	SD-13	2.95	4.29	1.34	2.95	0.00	4.29	0.00	0.00	0.00
37	SD-14	4.96	6.85	1.89	4.96	0.00	6.85	0.00	0.00	0.00
38	SD-17	6.12	7.20	1.08	6.12	0.00	7.20	0.00	0.00	0.00
39	SD-18	3.55	5.71	2.16	3.55	0.00	5.71	0.00	0.00	0.00
40	SD-1A	-3.64	-0.40	3.24	-3.64	0.00	-0.40	0.00	0.00	0.00
41	SD-2	-5.60	-1.82	3.79	-5.60	0.00	-1.82	0.00	0.00	0.00
42	SD-20	6.92	8.81	1.89	6.92	0.00	8.81	0.00	0.00	0.00
43	SD-200	35.77	37.11	1.34	35.77	0.00	37.11	0.00	0.00	0.00
44	SD-21	6.15	7.76	1.61	6.15	0.00	7.76	0.00	0.00	0.00
45	SD-2A	-4.00	-0.76	3.24	-4.00	0.00	-0.76	0.00	0.00	0.00
46	SD-3	-3.44	-0.72	2.72	-3.44	0.00	-0.72	0.00	0.00	0.00
47	SD-30	10.80	12.45	1.65	10.80	0.00	12.45	0.00	0.00	0.00
48	SD-30A	-1.28	0.88	2.16	-1.28	0.00	0.88	0.00	0.00	0.00
49	SD-31	13.75	15.36	1.61	13.75	0.00	15.36	0.00	0.00	0.00
50	SD-31A	3.58	4.66	1.08	3.58	0.00	4.66	0.00	0.00	0.00
51	SD-32A	8.02	9.10	1.08	8.02	0.00	9.10	0.00	0.00	0.00
52	SD-33	-0.70	1.46	2.16	-0.70	0.00	1.46	0.00	0.00	0.00
53	SD-34	0.22	2.38	2.16	0.22	0.00	2.38	0.00	0.00	0.00
54	SD-3A	-2.03	0.69	2.72	-2.03	0.00	0.69	0.00	0.00	0.00
55	SD-4	-3.36	-0.64	2.72	-3.36	0.00	-0.64	0.00	0.00	0.00
56	SD-48	2.55	4.44	1.89	2.55	0.00	4.44	0.00	0.00	0.00
57	SD-4A	-1.24	1.48	2.72	-1.24	0.00	1.48	0.00	0.00	0.00
58	SD-5	-1.85	0.87	2.72	-1.85	0.00	0.87	0.00	0.00	0.00
59	SD-50	3.22	4.30	1.08	3.22	0.00	4.30	0.00	0.00	0.00
60	SD-51	4.49	5.57	1.08	4.49	0.00	5.57	0.00	0.00	0.00
61	SD-51A	3.00	4.61	1.61	3.00	0.00	4.61	0.00	0.00	0.00
62	SD-54	3.00	4.61	1.61	3.00	0.00	4.61	0.00	0.00	0.00
63	SD-5A	1.35	3.51	2.16	1.35	0.00	3.51	0.00	0.00	0.00
64	SD-6	-0.70	1.74	2.44	-0.70	0.00	1.74	0.00	0.00	0.00
65	SD-6A	3.12	10.11	6.99	3.12	0.00	10.11	0.00	0.00	0.00
66	SD-7	0.95	10.82	9.87	0.95	0.00	10.82	0.00	0.00	0.00
67	SD-8	5.35	6.87	1.52	5.35	0.00	6.87	0.00	0.00	0.00
68	SD-80	9.05	10.66	1.61	9.05	0.00	10.66	0.00	0.00	0.00
69	SD-82	6.82	8.43	1.61	6.82	0.00	8.43	0.00	0.00	0.00
70	SD-8A	16.02	17.36	1.34	16.02	0.00	17.36	0.00	0.00	0.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	CBSD-32	9.31	9.31	16.30	1.34	0.00	0.00	15.34	0.38	0 12:10	0 12:45	2.61	49.00
2	OS-11A	8.22	1.46	2.85	2.08	0.00	0.08	1.82	1.05	0 12:45	0 00:00	0.00	0.00
3	OS-12	6.80	1.43	3.08	2.16	0.00	0.00	2.11	1.19	0 12:26	0 12:45	0.21	27.00
4	OS-127	6.50	3.96	3.88	1.61	0.00	0.00	3.15	0.88	0 11:49	0 12:45	5.49	163.00
5	OS-13	7.97	4.17	3.28	2.16	0.00	0.00	2.33	1.21	0 12:12	0 12:45	1.33	47.00
6	OS-14	7.69	4.04	3.63	1.61	0.00	0.00	2.91	0.89	0 11:51	0 12:45	4.33	133.00
7	OS-15	7.10	2.73	3.75	1.61	0.00	0.00	3.08	0.94	0 11:04	0 12:45	4.11	193.00
8	OS-153	7.29	5.72	4.52	1.34	0.00	0.00	3.71	0.53	0 11:53	0 12:45	3.82	126.00
9	OS-16	2.97	1.07	3.92	1.66	0.00	6.55	3.26	1.00	0 12:44	0 00:00	0.00	0.00
10	OS-165	8.15	8.15	5.32	1.08	0.00	0.00	4.64	0.40	0 11:54	0 12:45	5.02	123.00
11	OS-17	3.07	3.07	4.14	1.24	0.00	0.10	3.58	0.68	0 12:45	0 00:00	0.00	0.00
12	OS-18	6.24	2.71	4.09	1.34	0.00	0.00	3.66	0.91	0 10:55	0 12:45	8.19	259.00
13	OS-19	2.72	1.14	4.50	1.24	0.00	0.10	3.93	0.67	0 12:45	0 00:00	0.00	0.00
14	OS-2	5.89	0.19	0.57	0.57	0.00	1.59	0.41	0.41	0 12:45	0 00:00	0.00	0.00
15	OS-20	6.39	3.88	4.46	1.08	0.00	0.00	4.08	0.70	0 09:52	0 12:45	10.89	294.00
16	OS-21	11.54	9.69	5.15	1.08	0.00	0.00	4.59	0.52	0 11:49	0 12:45	9.90	165.00
17	OS-22	8.31	8.31	6.06	1.08	0.00	0.00	5.38	0.40	0 11:55	0 12:45	4.65	117.00
18	OS-29	2.29	2.29	3.00	0.90	0.00	0.00	2.35	0.25	0 12:03	0 12:45	1.03	75.00
19	OS-31	3.36	1.23	3.40	1.08	0.00	0.00	2.82	0.50	0 11:03	0 12:45	4.33	198.00
20	OS-33	3.46	0.66	3.88	1.08	0.00	0.00	3.35	0.55	0 10:55	0 12:45	7.08	252.00
21	OS-35	2.71	1.82	5.16	1.08	0.00	0.00	4.47	0.39	0 12:05	0 12:45	0.53	63.00
22	OS-5	5.70	0.08	1.18	2.02	0.00	0.14	0.78	1.62	0 12:45	0 00:00	0.00	0.00
23	OS-58	4.76	2.57	4.70	1.08	0.00	0.00	4.06	0.44	0 11:54	0 12:45	2.75	129.00
24	OS-60	8.26	8.26	5.50	1.08	0.00	0.00	4.78	0.36	0 12:00	0 12:45	3.62	94.00
25	OS-62	5.59	5.59	5.39	1.08	0.00	0.00	4.77	0.46	0 11:56	0 12:45	3.69	118.00
26	OS-7	5.62	1.16	1.29	2.03	0.00	3.79	0.84	1.58	0 12:45	0 00:00	0.00	0.00
27	OS-8	14.30	3.91	1.41	2.16	0.00	0.00	0.92	1.67	0 09:59	0 12:45	17.66	320.00
28	OS-82	10.30	6.93	6.06	1.08	0.00	0.00	5.38	0.40	0 11:57	0 12:45	5.90	116.00
29	OS-9	10.40	2.93	2.32	2.10	0.00	0.06	1.22	1.00	0 12:45	0 00:00	0.00	0.00
30	OS-90	3.38	3.38	15.52	0.52	0.00	0.55	15.14	0.14	0 12:45	0 00:00	0.00	0.00
31	PUMP HOUSE	60.96	0.00	-4.31	2.41	0.00	4.53	-5.76	0.96	0 12:45	0 00:00	0.00	0.00
32	SD-1	60.96	0.00	-3.05	3.65	0.00	0.14	-5.32	1.38	0 12:45	0 00:00	0.00	0.00
33	SD-10	11.20	3.80	3.60	1.90	0.00	0.26	2.30	0.60	0 12:45	0 00:00	0.00	0.00
34	SD-11	8.45	1.03	3.82	1.72	0.00	0.44	2.62	0.52	0 12:45	0 00:00	0.00	0.00
35	SD-12	16.24	4.14	4.01	2.16	0.00	0.00	2.74	0.89	0 12:10	0 12:45	5.05	56.00
36	SD-13	2.11	1.16	4.29	1.34	0.00	0.00	3.22	0.27	0 12:32	0 12:45	0.06	18.00
37	SD-14	10.72	5.20	6.34	1.38	0.00	0.51	5.45	0.49	0 12:45	0 00:00	0.00	0.00
38	SD-17	0.96	0.96	6.49	0.37	0.00	0.71	6.22	0.10	0 12:45	0 00:00	0.00	0.00
39	SD-18	10.39	1.32	4.81	1.26	0.00	0.90	3.87	0.32	0 12:45	0 00:00	0.00	0.00
40	SD-1A	26.03	0.50	-1.49	2.15	0.00	1.09	-3.05	0.59	0 12:45	0 00:00	0.00	0.00
41	SD-2	45.09	2.47	-2.04	3.56	0.00	0.22	-4.67	0.93	0 12:45	0 00:00	0.00	0.00
42	SD-20	5.96	5.96	7.76	0.84	0.00	1.05	7.36	0.44	0 12:44	0 00:00	0.00	0.00
43	SD-200	0.00	0.00	35.77	0.00	0.00	1.34	35.77	0.00	0 00:00	0 00:00	0.00	0.00
44	SD-21	16.95	3.86	7.76	1.61	0.00	0.00	7.42	1.27	0 10:52	0 12:45	23.93	224.00
45	SD-2A	25.80	1.17	-1.01	2.99	0.00	0.25	-2.76	1.24	0 12:45	0 00:00	0.00	0.00
46	SD-3	18.28	1.14	-1.35	2.09	0.00	0.63	-2.93	0.51	0 12:45	0 00:00	0.00	0.00
47	SD-30	16.52	0.07	12.45	1.65	0.00	0.00	11.24	0.44	0 12:10	0 12:23	2.75	53.00
48	SD-30A	10.03	0.24	-0.69	0.59	0.00	1.57	-1.12	0.16	0 12:46	0 00:00	0.00	0.00
49	SD-31	22.11	18.60	15.36	1.61	0.00	0.00	14.11	0.36	0 12:23	0 12:45	1.42	30.00
50	SD-31A	1.17	0.32	3.77	0.19	0.00	0.89	3.63	0.05	0 12:45	0 00:00	0.00	0.00
51	SD-32A	0.86	0.86	8.35	0.33	0.00	0.75	8.11	0.09	0 12:45	0 00:00	0.00	0.00
52	SD-33	8.67	0.94	0.57	1.27	0.00	0.89	-0.37	0.33	0 12:46	0 00:00	0.00	0.00
53	SD-34	7.82	5.23	1.55	1.33	0.00	0.83	0.54	0.32	0 12:45	0 00:00	0.00	0.00
54	SD-3A	27.77	11.36	0.69	2.72	0.00	0.00	-1.34	0.69	0 12:24	0 12:45	0.81	27.00
55	SD-4	21.60	0.85	-0.64	2.72	0.00	0.00	-2.39	0.97	0 12:24	0 12:46	1.98	34.00
56	SD-48	2.63	2.63	3.03	0.48	0.00	1.41	2.68	0.13	0 12:45	0 00:00	0.00	0.00
57	SD-4A	24.45	10.18	1.48	2.72	0.00	0.00	-0.44	0.80	0 12:24	0 12:45	2.78	33.00
58	SD-5	20.81	2.28	0.26	2.11	0.00	0.60	-1.34	0.51	0 12:46	0 00:00	0.00	0.00
59	SD-50	2.62	1.45	3.67	0.45	0.00	0.63	3.34	0.12	0 12:45	0 00:00	0.00	0.00
60	SD-51	1.18	1.18	4.97	0.48	0.00	0.59	4.62	0.13	0 12:45	0 00:00	0.00	0.00
61	SD-51A	0.01	0.00	3.04	0.04	0.00	1.58	3.00	0.00	0 12:47	0 00:00	0.00	0.00
62	SD-54	0.00	0.00	3.01	0.01	0.00	1.60	3.00	0.00	0 13:55	0 00:00	0.00	0.00
63	SD-5A	14.65	3.09	3.27	1.92	0.00	0.25	1.86	0.51	0 12:47	0 00:00	0.00	0.00
64	SD-6	16.13	0.72	1.30	2.00	0.00	0.44	-0.15	0.55	0 12:46	0 00:00	0.00	0.00
65	SD-6A	11.78	1.18	4.87	1.75	0.00	5.24	3.74	0.62	0 12:47	0 00:00	0.00	0.00
66	SD-7	15.48	1.03	2.48	1.53	0.00	8.34	1.42	0.47	0 12:45	0 00:00	0.00	0.00
67	SD-8	3.29	3.29	5.95	0.60	0.00	0.92	5.51	0.16	0 12:45	0 00:00	0.00	0.00
68	SD-80	0.99	0.99	9.32	0.27	0.00	1.34	9.13	0.08	0 12:45	0 00:00	0.00	0.00
69	SD-82	10.25	9.26	8.43	1.61	0.00	0.00	7.14	0.32	0 12:38	0 12:45	0.11	10.00
70	SD-8A	0.00	0.00	16.02	0.00	0.00	1.34	16.02	0.00	0 00:00	0 00:00	0.00	0.00

Pipe Results

SN Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1 Pipe - (102)	1.31	0 11:56	1.59	0.82	1.72	3.26	1.00	1.00	94.00	0.31	SURCHARGED
2 Pipe - (103)	1.64	0 13:00	1.86	0.88	2.09	2.39	1.00	1.00	94.00	0.23	SURCHARGED
3 Pipe - (106)	2.43	0 12:00	2.50	0.97	3.13	1.75	1.00	1.00	98.00	0.46	SURCHARGED
4 Pipe - (107)	0.74	0 10:55	1.59	0.46	1.38	3.74	1.00	1.00	262.00	0.10	SURCHARGED
5 Pipe - (11)	8.27	0 12:11	11.75	0.70	2.99	0.83	1.81	0.91	0.00	0.54	Calculated
6 Pipe - (112)	3.38	0 12:45	6.30	0.54	5.27	1.01	0.76	0.70	0.00	0.59	Calculated
7 Pipe - (113)	2.21	0 11:56	2.30	0.96	3.00	1.82	1.00	1.00	118.00	0.59	SURCHARGED
8 Pipe - (114)	2.14	0 11:54	2.23	0.96	2.75	2.01	1.00	1.00	131.00	0.57	SURCHARGED
9 Pipe - (115)	1.36	0 11:04	2.24	0.61	1.74	2.92	1.00	1.00	206.00	0.15	SURCHARGED
10 Pipe - (12)	11.18	0 12:45	10.45	1.07	3.98	1.47	1.72	0.86	0.00	0.67	> CAPACITY
11 Pipe - (130)	4.55	0 12:11	4.29	1.06	3.78	1.21	1.25	1.00	40.00	0.84	SURCHARGED
12 Pipe - (134)	16.47	0 12:23	22.50	0.73	9.38	0.11	1.50	1.00	31.00	1.98	SURCHARGED
13 Pipe - (135)	13.08	0 12:10	13.84	0.95	7.52	0.59	1.50	1.00	55.00	0.26	SURCHARGED
14 Pipe - (136)	2.69	0 11:46	15.86	0.17	2.00	0.28	1.17	0.78	0.00	0.20	Calculated
15 Pipe - (137)	5.52	0 12:45	11.76	0.47	3.96	1.50	1.11	0.64	0.00	0.94	Calculated
16 Pipe - (138)	10.62	0 12:45	12.32	0.86	4.73	1.07	1.55	0.89	0.00	0.85	Calculated
17 Pipe - (139)	11.59	0 12:46	12.08	0.96	4.32	2.40	1.79	0.92	0.00	0.81	Calculated
18 Pipe - (140)	14.36	0 12:47	18.03	0.80	4.60	1.48	1.93	0.98	0.00	0.72	Calculated
19 Pipe - (141)	17.70	0 12:57	18.57	0.95	4.05	1.59	2.50	1.00	34.00	0.66	SURCHARGED
20 Pipe - (142)	24.97	0 12:25	29.51	0.85	5.09	1.25	2.50	1.00	34.00	0.41	SURCHARGED
21 Pipe - (143)	25.67	0 12:26	45.02	0.57	4.56	0.29	2.57	0.86	0.00	0.43	Calculated
22 Pipe - (144)	25.88	0 12:53	54.20	0.48	4.57	1.08	2.57	0.86	0.00	0.79	Calculated
23 Pipe - (145)	60.96	0 12:45	294.56	0.21	6.77	0.10	2.13	0.36	0.00	0.94	Calculated
24 Pipe - (146)	0.80	0 12:04	1.44	0.55	1.60	3.19	0.83	1.00	81.00	0.08	SURCHARGED
25 Pipe - (147)	3.27	0 12:45	7.12	0.46	3.37	1.79	0.92	0.74	0.00	0.37	Calculated
26 Pipe - (15)	1.74	0 12:47	3.65	0.48	1.41	4.07	1.25	1.00	31.00	0.07	SURCHARGED
27 Pipe - (16)	15.43	0 12:45	21.36	0.72	4.72	1.22	1.75	0.78	0.00	0.84	Calculated
28 Pipe - (17)	16.05	0 12:47	18.18	0.88	4.70	1.18	2.04	0.91	0.00	0.82	Calculated
29 Pipe - (18)	20.79	0 12:46	29.24	0.71	4.39	1.13	2.30	0.92	0.00	0.43	Calculated
30 Pipe - (19)	17.41	0 12:24	18.34	0.95	4.00	1.62	2.29	0.92	0.00	0.44	Calculated
31 Pipe - (20)	17.79	0 12:59	31.84	0.56	4.10	1.46	2.29	0.92	0.00	0.55	Calculated
32 Pipe - (21)	45.10	0 12:54	57.56	0.78	4.71	1.19	3.50	1.00	15.00	0.43	SURCHARGED
33 Pipe - (22)	60.96	0 12:45	44.99	1.35	7.03	0.12	2.96	0.84	0.00	0.72	> CAPACITY
34 Pipe - (25)	1.17	0 12:45	2.71	0.43	3.28	1.11	0.46	0.46	0.00	0.91	Calculated
35 Pipe - (26)	2.61	0 12:45	6.34	0.41	4.29	0.62	0.72	0.72	0.00	0.39	Calculated
36 Pipe - (37)	0.00	0 00:00	14.65	0.00	0.00		0.00	0.00	0.00	0.00	Calculated
37 Pipe - (38)	0.00	0 00:00	9.07	0.00	0.00		0.13	0.11	0.00	0.00	Calculated
38 Pipe - (40)	0.99	0 12:45	14.16	0.07	0.94	2.18	0.88	0.59	0.00	0.26	Calculated
39 Pipe - (41)	9.07	0 12:45	8.88	1.02	5.54	1.38	1.38	0.92	0.00	1.03	> CAPACITY
40 Pipe - (42)	10.37	0 12:45	16.00	0.65	3.78	1.50	1.63	0.81	0.00	0.25	Calculated
41 Pipe - (46)	0.85	0 12:45	4.55	0.19	5.41	0.84	0.26	0.26	0.00	1.82	Calculated
42 Pipe - (47)	1.17	0 12:45	15.66	0.07	4.15	0.10	0.39	0.39	0.00	1.21	Calculated
43 Pipe - (49)	10.03	0 12:46	52.31	0.19	4.66	0.36	1.30	0.65	0.00	0.18	Calculated
44 Pipe - (55)	0.00	0 12:47	4.70	0.00	0.06	110.18	0.02	0.01	0.00	0.01	Calculated
45 Pipe - (56)	0.01	0 12:45	4.70	0.00	0.06	113.87	0.26	0.17	0.00	0.00	Calculated
46 Pipe - (57)	2.60	0 12:45	15.59	0.17	2.06	1.95	0.91	0.52	0.00	0.44	Calculated
47 Pipe - (58)	7.74	0 12:45	11.19	0.69	3.58	1.75	1.30	0.65	0.00	0.60	Calculated
48 Pipe - (59)	8.64	0 12:46	12.44	0.69	6.03	0.53	0.93	0.47	0.00	1.10	Calculated
49 Pipe - (7)	0.96	0 12:45	3.28	0.29	1.67	3.73	0.68	0.69	0.00	0.52	Calculated
50 Pipe - (77)	1.85	0 12:56	1.94	0.95	2.35	2.18	1.00	1.00	119.00	0.38	SURCHARGED
51 Pipe - (78)	1.98	0 12:56	2.14	0.93	2.52	1.26	1.00	1.00	178.00	0.32	SURCHARGED
52 Pipe - (79)	1.41	0 10:47	1.59	0.88	1.81	1.41	1.00	1.00	268.00	0.25	SURCHARGED
53 Pipe - (80)	2.19	0 12:45	2.89	0.76	1.79	2.97	1.24	1.00	0.00	0.27	Calculated
54 Pipe - (81)	2.01	0 10:51	3.12	0.65	1.86	0.58	1.24	1.00	0.00	0.26	Calculated
55 Pipe - (82)	2.19	0 10:51	3.15	0.70	1.94	2.31	1.24	1.00	0.00	0.30	Calculated
56 Pipe - (83)	2.78	0 10:56	4.70	0.59	1.75	2.63	1.50	1.00	227.00	0.22	SURCHARGED
57 Pipe - (84)	4.20	0 10:56	5.44	0.77	2.80	0.27	1.50	1.00	221.00	0.41	SURCHARGED
58 Pipe - (85)	4.57	0 11:49	5.46	0.84	2.59	2.15	1.50	1.00	221.00	0.31	SURCHARGED
59 Pipe - (86)	6.38	0 11:52	10.12	0.63	2.16	2.46	2.00	1.00	61.00	0.26	SURCHARGED
60 Pipe - (87)	6.76	0 12:12	10.12	0.67	2.35	2.16	2.00	1.00	32.00	0.32	SURCHARGED
61 Pipe - (88)	8.14	0 12:13	10.12	0.80	2.68	2.55	2.00	1.00	28.00	0.45	SURCHARGED
62 Pipe - (89)	10.39	0 12:45	11.92	0.87	3.31	1.76	2.00	1.00	28.00	0.24	SURCHARGED
63 Pipe - (9)	7.94	0 12:10	10.12	0.78	2.67	1.02	1.86	0.93	0.00	0.27	Calculated
64 Pipe - (90)	5.39	0 10:00	10.12	0.53	1.72	2.17	2.00	1.00	70.00	0.09	SURCHARGED
65 Pipe - (91)	5.62	0 12:45	10.12	0.56	1.79	1.00	2.00	1.00	38.00	0.10	SURCHARGED
66 Pipe - (92)	5.70	0 12:45	17.54	0.33	2.67	0.87	1.29	0.64	0.00	0.36	Calculated
67 Pipe - (93)	5.89	0 12:45	33.05	0.18	3.67	1.43	1.29	0.64	0.00	0.62	Calculated
68 Pipe - (97)	1.57	0 12:29	1.90	0.83	2.01	3.10	1.00	1.00	125.00	0.42	SURCHARGED
69 Pipe - (98)	2.54	0 12:29	3.20	0.79	2.07	2.99	1.25	1.00	131.00	0.22	SURCHARGED
70 Pipe - (99)	1.98	0 13:50	4.70	0.42	1.12	4.61	1.50	1.00	213.00	0.12	SURCHARGED

10th Street 100-year Flow SWMM Modeling Report

Project Description

File Name 10th street pump station basin_existing 100 year flow.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 14, 1971 13:00:00
End Analysis On Jan 15, 1971 13:00:00
Start Reporting On Jan 14, 1971 13:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	21
<i>Junctions</i>	20
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	20
<i>Channels</i>	0
<i>Pipes</i>	20
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
1	NODE-1	Junction	6.35	10.75	6.35	10.75	0.00	2.55	10.21	0.00	0.55	0 00:00	0.00	0.00
2	NODE-12	Junction	1.46	10.78	1.46	10.78	0.00	13.76	4.36	0.00	6.43	0 00:00	0.00	0.00
3	NODE-13	Junction	5.88	12.19	5.88	12.19	0.00	5.16	10.20	0.00	1.99	0 00:00	0.00	0.00
4	NODE-14	Junction	6.39	12.73	6.39	12.73	0.00	2.34	10.63	0.00	2.10	0 00:00	0.00	0.00
5	NODE-2	Junction	6.20	10.21	6.20	10.21	0.00	3.30	10.21	0.00	0.00	0 11:45	0.34	17.00
6	NODE-3	Junction	6.32	10.38	6.32	10.38	0.00	2.87	10.22	0.00	0.16	0 00:00	0.00	0.00
7	NODE-4	Junction	6.13	10.50	6.13	10.50	0.00	3.40	10.26	0.00	0.25	0 00:00	0.00	0.00
8	NODE-5	Junction	6.05	12.21	6.05	12.21	0.00	4.75	10.26	0.00	1.96	0 00:00	0.00	0.00
9	NODE-6	Junction	7.59	11.75	7.59	11.75	0.00	1.46	11.26	0.00	0.49	0 00:00	0.00	0.00
10	NODE-7	Junction	7.75	12.07	7.75	12.07	0.00	1.06	11.31	0.00	0.77	0 00:00	0.00	0.00
11	NODE-8	Junction	5.75	11.21	5.75	11.21	0.00	5.35	10.12	0.00	1.09	0 00:00	0.00	0.00
12	SD-10	Junction	6.40	10.34	6.40	10.34	0.00	2.34	10.17	0.00	0.17	0 00:00	0.00	0.00
13	SD-11	Junction	7.00	12.59	7.00	12.59	0.00	2.08	11.09	0.00	1.49	0 00:00	0.00	0.00
14	SD-12	Junction	8.94	11.77	8.94	10.48	0.00	0.96	11.43	0.00	0.35	0 00:00	0.00	0.00
15	SD-18	Junction	8.58	11.25	8.58	10.10	0.00	2.46	11.23	0.00	0.02	0 00:00	0.00	0.00
16	SD-20	Junction	6.78	9.87	6.78	9.87	0.00	5.02	9.87	0.00	0.00	0 11:45	1.99	46.00
17	SD-22	Junction	6.12	9.69	6.12	9.69	0.00	2.67	9.69	0.00	0.00	0 11:45	2.13	79.00
18	SD-5	Junction	4.25	11.08	4.25	11.08	0.00	11.84	7.43	0.00	3.65	0 00:00	0.00	0.00
19	SD-6	Junction	5.66	10.48	5.66	10.48	0.00	8.75	10.03	0.00	0.45	0 00:00	0.00	0.00
20	SD-9	Junction	6.10	11.96	6.10	11.96	0.00	4.37	10.27	0.00	1.69	0 00:00	0.00	0.00
21	Out-1Pipe - (27)	Outfall	-1.70					13.76	-0.33					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged	Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)	
1	Pipe - (1)	Pipe	SD-22	SD-20	371.25	6.12	6.78	-0.1800	12.000	0.0130	0.84	1.59	0.53	1.07	1.00	1.00	125.00	SURCHARGED
2	Pipe - (10)	Pipe	NODE-4	SD-9	26.14	6.13	6.10	0.1100	15.000	0.0130	3.40	2.89	1.18	2.77	1.25	1.00	113.00	SURCHARGED
3	Pipe - (11)	Pipe	SD-12	NODE-7	138.39	8.94	7.75	0.8600	12.000	0.0130	0.96	3.30	0.29	2.39	1.00	1.00	35.00	SURCHARGED
4	Pipe - (12)	Pipe	NODE-7	NODE-6	18.72	7.75	7.59	0.8600	12.000	0.0130	1.05	3.29	0.32	2.24	1.00	1.00	56.00	SURCHARGED
5	Pipe - (13)	Pipe	NODE-6	SD-11	68.14	7.59	7.00	0.8600	12.000	0.0130	1.47	3.30	0.45	2.40	1.00	1.00	60.00	SURCHARGED
6	Pipe - (14)	Pipe	SD-11	NODE-14	103.63	7.00	6.39	0.5900	12.000	0.0130	2.09	2.73	0.76	2.66	1.00	1.00	82.00	SURCHARGED
7	Pipe - (15)	Pipe	NODE-14	SD-9	50.20	6.39	6.10	0.5800	12.000	0.0130	2.35	2.71	0.87	2.99	1.00	1.00	113.00	SURCHARGED
8	Pipe - (16)	Pipe	SD-9	NODE-5	31.53	6.10	6.05	0.1700	18.000	0.0130	4.41	4.70	0.94	2.50	1.50	1.00	92.00	SURCHARGED
9	Pipe - (17)	Pipe	NODE-5	NODE-13	100.25	6.05	5.88	0.1700	18.000	0.0130	4.78	4.70	1.02	2.70	1.50	1.00	89.00	SURCHARGED
10	Pipe - (18)	Pipe	NODE-13	NODE-8	75.32	5.88	5.75	0.1700	18.000	0.0130	5.18	4.70	1.10	2.93	1.50	1.00	84.00	SURCHARGED
11	Pipe - (19)	Pipe	NODE-8	SD-6	55.18	5.75	5.66	0.1600	18.000	0.0130	5.38	4.70	1.15	3.04	1.50	1.00	76.00	SURCHARGED
12	Pipe - (2)	Pipe	SD-18	SD-20	222.91	8.58	6.78	0.8100	12.000	0.0130	2.46	3.20	0.77	3.14	1.00	1.00	81.00	SURCHARGED
13	Pipe - (24)	Pipe	SD-6	SD-5	373.27	5.66	4.25	0.3800	18.000	0.0130	8.74	6.46	1.35	5.09	1.50	1.00	36.00	SURCHARGED
14	Pipe - (26)	Pipe	SD-5	NODE-12	187.40	4.25	1.46	1.4900	18.000	0.0130	11.83	12.82	0.92	6.70	1.50	1.00	36.00	SURCHARGED
15	Pipe - (27)	Pipe	NODE-12	Out-1Pipe - (27)	224.45	1.46	-1.70	1.4100	18.000	0.0130	13.76	12.46	1.10	7.90	1.44	0.96	0.00	> CAPACITY
16	Pipe - (3)	Pipe	SD-20	SD-10	168.77	6.78	6.40	0.2300	12.000	0.0130	2.25	1.69	1.33	2.87	1.00	1.00	125.00	SURCHARGED
17	Pipe - (5)	Pipe	SD-10	NODE-1	48.34	6.40	6.35	0.1100	15.000	0.0130	2.32	2.89	0.80	1.89	1.25	1.00	119.00	SURCHARGED
18	Pipe - (6)	Pipe	NODE-1	NODE-3	24.64	6.35	6.32	0.1100	15.000	0.0130	2.54	2.89	0.88	2.07	1.25	1.00	118.00	SURCHARGED
19	Pipe - (7)	Pipe	NODE-3	NODE-2	118.07	6.32	6.20	0.1100	15.000	0.0130	2.88	2.89	1.00	2.35	1.25	1.00	118.00	SURCHARGED
20	Pipe - (9)	Pipe	NODE-2	NODE-4	66.84	6.20	6.13	0.1100	15.000	0.0130	3.30	2.89	1.14	2.69	1.25	1.00	116.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	NODE-1	6.35	10.75	4.41	6.35	0.00	10.75	0.00	0.00	0.00
2	NODE-12	1.46	10.78	9.32	1.46	0.00	10.78	0.00	0.00	0.00
3	NODE-13	5.88	12.19	6.31	5.88	0.00	12.19	0.00	0.00	0.00
4	NODE-14	6.39	12.73	6.34	6.39	0.00	12.73	0.00	0.00	0.00
5	NODE-2	6.20	10.21	4.01	6.20	0.00	10.21	0.00	0.00	0.00
6	NODE-3	6.32	10.38	4.06	6.32	0.00	10.38	0.00	0.00	0.00
7	NODE-4	6.13	10.50	4.38	6.13	0.00	10.50	0.00	0.00	0.00
8	NODE-5	6.05	12.21	6.16	6.05	0.00	12.21	0.00	0.00	0.00
9	NODE-6	7.59	11.75	4.16	7.59	0.00	11.75	0.00	0.00	0.00
10	NODE-7	7.75	12.07	4.32	7.75	0.00	12.07	0.00	0.00	0.00
11	NODE-8	5.75	11.21	5.46	5.75	0.00	11.21	0.00	0.00	0.00
12	SD-10	6.40	10.34	3.94	6.40	0.00	10.34	0.00	0.00	0.00
13	SD-11	7.00	12.59	5.59	7.00	0.00	12.59	0.00	0.00	0.00
14	SD-12	8.94	11.77	2.83	8.94	0.00	10.48	-1.29	0.00	0.00
15	SD-18	8.58	11.25	2.67	8.58	0.00	10.10	-1.15	0.00	0.00
16	SD-20	6.78	9.87	3.09	6.78	0.00	9.87	0.00	0.00	0.00
17	SD-22	6.12	9.69	3.57	6.12	0.00	9.69	0.00	0.00	0.00
18	SD-5	4.25	11.08	6.83	4.25	0.00	11.08	0.00	0.00	0.00
19	SD-6	5.66	10.48	4.82	5.66	0.00	10.48	0.00	0.00	0.00
20	SD-9	6.10	11.96	5.86	6.10	0.00	11.96	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 NODE-1	2.55	0.51	10.21	3.86	0.00	0.55	6.91	0.56	0 11:33	0 00:00	0.00	0.00
2 NODE-12	13.76	1.92	4.36	2.90	0.00	6.43	1.83	0.37	0 11:45	0 00:00	0.00	0.00
3 NODE-13	5.16	0.69	10.20	4.32	0.00	1.99	6.41	0.53	0 11:45	0 00:00	0.00	0.00
4 NODE-14	2.34	0.26	10.63	4.24	0.00	2.10	6.78	0.39	0 11:45	0 00:00	0.00	0.00
5 NODE-2	3.30	0.95	10.21	4.01	0.00	0.00	6.77	0.57	0 11:32	0 11:45	0.34	17.00
6 NODE-3	2.87	0.73	10.22	3.90	0.00	0.16	6.88	0.56	0 11:33	0 00:00	0.00	0.00
7 NODE-4	3.40	0.28	10.26	4.13	0.00	0.25	6.69	0.56	0 11:45	0 00:00	0.00	0.00
8 NODE-5	4.75	0.61	10.26	4.21	0.00	1.96	6.58	0.53	0 11:45	0 00:00	0.00	0.00
9 NODE-6	1.46	0.42	11.26	3.67	0.00	0.49	7.79	0.20	0 11:45	0 00:00	0.00	0.00
10 NODE-7	1.06	0.10	11.31	3.56	0.00	0.77	7.93	0.18	0 11:45	0 00:00	0.00	0.00
11 NODE-8	5.35	0.29	10.12	4.37	0.00	1.09	6.27	0.52	0 11:45	0 00:00	0.00	0.00
12 SD-10	2.34	0.18	10.17	3.77	0.00	0.17	6.96	0.56	0 11:33	0 00:00	0.00	0.00
13 SD-11	2.08	0.63	11.09	4.09	0.00	1.49	7.28	0.28	0 11:45	0 00:00	0.00	0.00
14 SD-12	0.96	0.96	11.43	2.49	0.00	0.35	9.06	0.12	0 11:45	0 00:00	0.00	0.00
15 SD-18	2.46	2.46	11.23	2.65	0.00	0.02	8.81	0.23	0 11:03	0 00:00	0.00	0.00
16 SD-20	5.02	1.17	9.87	3.09	0.00	0.00	7.29	0.51	0 11:03	0 11:45	1.99	46.00
17 SD-22	2.67	1.93	9.69	3.57	0.00	0.00	7.29	1.17	0 11:03	0 11:45	2.13	79.00
18 SD-5	11.84	3.65	7.43	3.18	0.00	3.65	4.60	0.35	0 11:45	0 00:00	0.00	0.00
19 SD-6	8.75	5.22	10.03	4.37	0.00	0.45	6.16	0.50	0 11:45	0 00:00	0.00	0.00
20 SD-9	4.37	0.00	10.27	4.17	0.00	1.69	6.65	0.55	0 11:45	0 00:00	0.00	0.00

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Pipe Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow Gate	No. of Barrels
1	Pipe - (1)	371.25	6.12	0.00	6.78	0.00	-0.66	-0.1800	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
2	Pipe - (10)	26.14	6.13	0.00	6.10	0.00	0.03	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
3	Pipe - (11)	138.39	8.94	0.00	7.75	0.00	1.19	0.8600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
4	Pipe - (12)	18.72	7.75	0.00	7.59	0.00	0.16	0.8600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
5	Pipe - (13)	68.14	7.59	0.00	7.00	0.00	0.59	0.8600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
6	Pipe - (14)	103.63	7.00	0.00	6.39	0.00	0.61	0.5900	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
7	Pipe - (15)	50.20	6.39	0.00	6.10	0.00	0.29	0.5800	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
8	Pipe - (16)	31.53	6.10	0.00	6.05	0.00	0.05	0.1700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
9	Pipe - (17)	100.25	6.05	0.00	5.88	0.00	0.17	0.1700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
10	Pipe - (18)	75.32	5.88	0.00	5.75	0.00	0.13	0.1700	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
11	Pipe - (19)	55.18	5.75	0.00	5.66	0.00	0.09	0.1600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
12	Pipe - (2)	222.91	8.58	0.00	6.78	0.00	1.80	0.8100	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
13	Pipe - (24)	373.27	5.66	0.00	4.25	0.00	1.41	0.3800	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
14	Pipe - (26)	187.40	4.25	0.00	1.46	0.00	2.79	1.4900	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
15	Pipe - (27)	224.45	1.46	0.00	-1.70	0.00	3.16	1.4100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
16	Pipe - (3)	168.77	6.78	0.00	6.40	0.00	0.38	0.2300	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
17	Pipe - (5)	48.34	6.40	0.00	6.35	0.00	0.05	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
18	Pipe - (6)	24.64	6.35	0.00	6.32	0.00	0.03	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
19	Pipe - (7)	118.07	6.32	0.00	6.20	0.00	0.13	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1
20	Pipe - (9)	66.84	6.20	0.00	6.13	0.00	0.07	0.1100	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00 No	1

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
1 Pipe - (1)	0.84	0 11:03	1.59	0.53	1.07	5.78	1.00	1.00	125.00	0.03	SURCHARGED
2 Pipe - (10)	3.40	0 11:03	2.89	1.18	2.77	0.16	1.25	1.00	113.00	0.31	SURCHARGED
3 Pipe - (11)	0.96	0 11:45	3.30	0.29	2.39	0.97	1.00	1.00	35.00	0.92	SURCHARGED
4 Pipe - (12)	1.05	0 11:45	3.29	0.32	2.24	0.14	1.00	1.00	56.00	0.83	SURCHARGED
5 Pipe - (13)	1.47	0 11:45	3.30	0.45	2.40	0.47	1.00	1.00	60.00	0.80	SURCHARGED
6 Pipe - (14)	2.09	0 11:45	2.73	0.76	2.66	0.65	1.00	1.00	82.00	0.67	SURCHARGED
7 Pipe - (15)	2.35	0 11:45	2.71	0.87	2.99	0.28	1.00	1.00	113.00	0.23	SURCHARGED
8 Pipe - (16)	4.41	0 11:58	4.70	0.94	2.50	0.21	1.50	1.00	92.00	0.41	SURCHARGED
9 Pipe - (17)	4.78	0 11:58	4.70	1.02	2.70	0.62	1.50	1.00	89.00	0.43	SURCHARGED
10 Pipe - (18)	5.18	0 11:58	4.70	1.10	2.93	0.43	1.50	1.00	84.00	0.44	SURCHARGED
11 Pipe - (19)	5.38	0 11:58	4.70	1.15	3.04	0.30	1.50	1.00	76.00	0.43	SURCHARGED
12 Pipe - (2)	2.46	0 11:45	3.20	0.77	3.14	1.18	1.00	1.00	81.00	0.42	SURCHARGED
13 Pipe - (24)	8.74	0 11:19	6.46	1.35	5.09	1.22	1.50	1.00	36.00	0.90	SURCHARGED
14 Pipe - (26)	11.83	0 11:45	12.82	0.92	6.70	0.47	1.50	1.00	36.00	1.41	SURCHARGED
15 Pipe - (27)	13.76	0 11:45	12.46	1.10	7.90	0.47	1.44	0.96	0.00	1.49	> CAPACITY
16 Pipe - (3)	2.25	0 11:03	1.69	1.33	2.87	0.98	1.00	1.00	125.00	0.39	SURCHARGED
17 Pipe - (5)	2.32	0 11:03	2.89	0.80	1.89	0.43	1.25	1.00	119.00	0.29	SURCHARGED
18 Pipe - (6)	2.54	0 11:03	2.89	0.88	2.07	0.20	1.25	1.00	118.00	0.30	SURCHARGED
19 Pipe - (7)	2.88	0 11:03	2.89	1.00	2.35	0.84	1.25	1.00	118.00	0.31	SURCHARGED
20 Pipe - (9)	3.30	0 11:03	2.89	1.14	2.69	0.41	1.25	1.00	116.00	0.30	SURCHARGED

K Street 100-year Flow SWMM Modeling Report

Project Description

File Name K ST - SWMM ANALYSIS MODEL - EXIST 100 YEAR FLOW.SPF

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Jan 14, 1971 12:00:00
End Analysis On Jan 15, 1971 12:00:00
Start Reporting On Jan 14, 1971 12:00:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	23
<i>Junctions</i>	22
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	22
<i>Channels</i>	0
<i>Pipes</i>	22
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN	Element ID	Element Type	Invert Elevation	Ground/Rim (Max) Elevation	Initial Water Elevation	Surcharge Elevation	Ponded Area	Peak Inflow	Max HGL Elevation Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
			(ft)	(ft)	(ft)	(ft)	(ft²)	(cfs)	(ft)	(ft)	(ft)	(days hh:mm)	(ac-in)	(min)
1	OS-14	Junction	-0.64	2.60	-0.64	2.60	0.00	19.33	2.60	0.00	0.01	0 00:00	0.00	0.00
2	OS-16	Junction	-0.53	2.71	-0.53	2.71	0.00	18.02	2.71	0.00	0.00	0 12:45	0.55	23.00
3	OS-2	Junction	-2.12	1.12	-2.12	1.12	0.00	24.69	-0.93	0.00	2.05	0 00:00	0.00	0.00
4	OS-24	Junction	4.00	5.08	4.00	5.08	0.00	2.64	5.08	0.00	0.00	0 12:45	1.68	134.00
5	OS-25	Junction	4.76	5.84	4.76	5.84	0.00	3.03	5.84	0.00	0.00	0 12:45	0.67	66.00
6	OS-26	Junction	-0.40	2.84	-0.40	2.84	0.00	18.12	2.83	0.00	0.01	0 00:00	0.00	0.00
7	OS-3	Junction	-1.04	2.20	-1.04	2.20	0.00	24.71	0.57	0.00	1.63	0 00:00	0.00	0.00
8	OS-31	Junction	3.03	4.11	3.03	4.11	0.00	7.38	4.11	0.00	0.00	0 12:45	9.80	239.00
9	OS-38	Junction	4.94	6.02	4.94	6.02	0.00	4.14	6.02	0.00	0.00	0 12:45	3.78	124.00
10	OS-4	Junction	-0.98	2.26	-0.98	2.26	0.00	24.74	1.89	0.00	0.37	0 00:00	0.00	0.00
11	OS-41	Junction	5.26	6.34	5.26	6.34	0.00	4.79	6.34	0.00	0.00	0 12:45	0.87	46.00
12	OS-44	Junction	2.92	4.00	2.92	4.00	0.00	4.64	4.00	0.00	0.00	0 12:45	3.77	134.00
13	OS-4A	Junction	3.88	4.96	3.88	4.96	0.00	1.98	4.96	0.00	0.00	0 12:45	0.15	49.00
14	OS-5	Junction	-0.76	2.48	-0.76	2.48	0.00	20.41	2.32	0.00	0.16	0 00:00	0.00	0.00
15	OS-70	Junction	-0.35	2.89	-0.35	2.89	0.00	26.14	2.89	0.00	0.00	0 12:45	15.26	92.00
16	OS-75	Junction	-0.25	2.99	-0.25	2.99	0.00	17.90	2.89	0.00	0.11	0 00:00	0.00	0.00
17	OS-76	Junction	0.27	2.99	0.27	2.99	0.00	32.52	2.99	0.00	0.00	0 12:45	29.18	126.00
18	OS-81	Junction	2.02	4.74	2.02	4.74	0.00	16.60	3.70	0.00	1.04	0 00:00	0.00	0.00
19	OS-83	Junction	1.08	3.80	1.08	3.80	0.00	19.24	3.80	0.00	0.00	0 12:45	6.39	59.00
20	OS-86	Junction	1.70	4.42	1.70	4.42	0.00	5.48	3.88	0.00	0.54	0 00:00	0.00	0.00
21	OS-89	Junction	2.15	4.31	2.15	4.31	0.00	1.79	3.90	0.00	0.41	0 00:00	0.00	0.00
22	OS-92	Junction	3.86	6.02	3.86	6.02	0.00	0.36	4.05	0.00	1.97	0 00:00	0.00	0.00
23	Out-1Pipe - (118)	Outfall	-4.55					24.69	-3.65					

Link Summary

SN Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Reported (min)	Surcharged Condition
1	Pipe - (100)	Pipe	OS-31 OS-44	249.54	3.03	2.92	0.0400	12.000	0.0130	1.41	1.59	0.89	1.95	1.00	1.00	144.00	SURCHARGED
2	Pipe - (101)	Pipe	OS-44 OS-83	398.64	2.92	1.08	0.4600	12.000	0.0130	1.77	2.42	0.73	2.33	1.00	1.00	144.00	SURCHARGED
3	Pipe - (103)	Pipe	OS-92 OS-89	227.53	3.86	2.15	0.7500	24.000	0.0130	0.36	19.61	0.02	0.43	0.97	0.48	0.00	Calculated
4	Pipe - (104)	Pipe	OS-89 OS-86	377.37	2.15	1.70	0.1200	24.000	0.0130	1.83	10.12	0.18	0.60	1.88	0.94	0.00	Calculated
5	Pipe - (106)	Pipe	OS-86 OS-83	379.32	1.70	1.08	0.1600	30.000	0.0130	5.49	18.34	0.30	1.15	2.34	0.94	0.00	Calculated
6	Pipe - (107)	Pipe	OS-83 OS-81	381.18	1.08	2.02	-0.2500	30.000	0.0130	8.67	20.37	0.43	2.08	2.09	0.84	0.00	Calculated
7	Pipe - (108)	Pipe	OS-81 OS-76	392.28	2.02	0.27	0.4500	30.000	0.0130	16.55	27.40	0.60	3.78	2.09	0.84	0.00	Calculated
8	Pipe - (109)	Pipe	OS-76 OS-70	370.54	0.27	-0.35	0.1700	30.000	0.0130	10.88	18.34	0.59	2.22	2.50	1.00	136.00	SURCHARGED
9	Pipe - (110)	Pipe	OS-70 OS-75	291.71	-0.35	-0.25	-0.0300	36.000	0.0130	16.01	29.83	0.54	2.30	3.00	1.00	93.00	SURCHARGED
10	Pipe - (111)	Pipe	OS-75 OS-26	193.31	-0.25	-0.40	0.0800	36.000	0.0130	16.72	29.83	0.56	2.45	3.00	1.00	93.00	SURCHARGED
11	Pipe - (112)	Pipe	OS-26 OS-16	204.76	-0.40	-0.53	0.0600	36.000	0.0130	17.39	29.83	0.58	2.54	3.00	1.00	74.00	SURCHARGED
12	Pipe - (113)	Pipe	OS-16 OS-14	264.34	-0.53	-0.64	0.0400	36.000	0.0130	17.29	29.83	0.58	2.55	3.00	1.00	49.00	SURCHARGED
13	Pipe - (114)	Pipe	OS-14 OS-5	254.98	-0.64	-0.76	0.0500	36.000	0.0130	18.65	29.83	0.63	2.82	3.00	1.00	25.00	SURCHARGED
14	Pipe - (115)	Pipe	OS-5 OS-4	361.25	-0.76	-0.98	0.0600	36.000	0.0130	20.39	29.83	0.68	2.94	2.94	0.98	0.00	Calculated
15	Pipe - (116)	Pipe	OS-4 OS-3	410.47	-0.98	-1.04	0.0100	36.000	0.0130	24.71	29.83	0.83	4.36	2.24	0.75	0.00	Calculated
16	Pipe - (117)	Pipe	OS-3 OS-2	138.08	-1.04	-2.12	0.7800	36.000	0.0130	24.69	58.99	0.42	7.64	1.40	0.47	0.00	Calculated
17	Pipe - (118)	Pipe	OS-2 Out-1Pipe - (118)	67.98	-2.12	-4.55	3.5700	36.000	0.0130	24.69	126.10	0.20	11.27	1.04	0.35	0.00	Calculated
18	Pipe - (95)	Pipe	OS-38 OS-25	312.89	4.94	4.76	0.0600	12.000	0.0130	1.36	1.59	0.86	1.85	1.00	1.00	97.00	SURCHARGED
19	Pipe - (96)	Pipe	OS-25 OS-24	305.40	4.76	4.00	0.2500	12.000	0.0130	1.69	1.78	0.95	2.23	1.00	1.00	97.00	SURCHARGED
20	Pipe - (97)	Pipe	OS-41 OS-38	31.57	5.26	4.94	1.0100	12.000	0.0130	2.53	3.59	0.70	3.22	1.00	1.00	54.00	SURCHARGED
21	Pipe - (98)	Pipe	OS-24 OS-4A	64.15	4.00	3.88	0.1900	12.000	0.0130	1.75	1.59	1.10	2.24	1.00	1.00	137.00	SURCHARGED
22	Pipe - (99)	Pipe	OS-4A OS-31	379.38	3.88	3.03	0.2200	12.000	0.0130	1.62	1.69	0.96	2.06	1.00	1.00	137.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	OS-14	-0.64	2.60	3.24	-0.64	0.00	2.60	0.00	0.00	0.00
2	OS-16	-0.53	2.71	3.24	-0.53	0.00	2.71	0.00	0.00	0.00
3	OS-2	-2.12	1.12	3.24	-2.12	0.00	1.12	0.00	0.00	0.00
4	OS-24	4.00	5.08	1.08	4.00	0.00	5.08	0.00	0.00	0.00
5	OS-25	4.76	5.84	1.08	4.76	0.00	5.84	0.00	0.00	0.00
6	OS-26	-0.40	2.84	3.24	-0.40	0.00	2.84	0.00	0.00	0.00
7	OS-3	-1.04	2.20	3.24	-1.04	0.00	2.20	0.00	0.00	0.00
8	OS-31	3.03	4.11	1.08	3.03	0.00	4.11	0.00	0.00	0.00
9	OS-38	4.94	6.02	1.08	4.94	0.00	6.02	0.00	0.00	0.00
10	OS-4	-0.98	2.26	3.24	-0.98	0.00	2.26	0.00	0.00	0.00
11	OS-41	5.26	6.34	1.08	5.26	0.00	6.34	0.00	0.00	0.00
12	OS-44	2.92	4.00	1.08	2.92	0.00	4.00	0.00	0.00	0.00
13	OS-4A	3.88	4.96	1.08	3.88	0.00	4.96	0.00	0.00	0.00
14	OS-5	-0.76	2.48	3.24	-0.76	0.00	2.48	0.00	0.00	0.00
15	OS-70	-0.35	2.89	3.24	-0.35	0.00	2.89	0.00	0.00	0.00
16	OS-75	-0.25	2.99	3.24	-0.25	0.00	2.99	0.00	0.00	0.00
17	OS-76	0.27	2.99	2.72	0.27	0.00	2.99	0.00	0.00	0.00
18	OS-81	2.02	4.74	2.72	2.02	0.00	4.74	0.00	0.00	0.00
19	OS-83	1.08	3.80	2.72	1.08	0.00	3.80	0.00	0.00	0.00
20	OS-86	1.70	4.42	2.72	1.70	0.00	4.42	0.00	0.00	0.00
21	OS-89	2.15	4.31	2.16	2.15	0.00	4.31	0.00	0.00	0.00
22	OS-92	3.86	6.02	2.16	3.86	0.00	6.02	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
1 OS-14	19.33	6.12	2.60	3.24	0.00	0.01	0.64	1.28	0 12:45	0 00:00	0.00	0.00
2 OS-16	18.02	1.85	2.71	3.24	0.00	0.00	0.77	1.30	0 12:28	0 12:45	0.55	23.00
3 OS-2	24.69	0.00	-0.93	1.19	0.00	2.05	-1.65	0.47	0 12:45	0 00:00	0.00	0.00
4 OS-24	2.64	0.95	5.08	1.08	0.00	0.00	4.43	0.43	0 11:55	0 12:45	1.68	134.00
5 OS-25	3.03	2.22	5.84	1.08	0.00	0.00	5.13	0.37	0 12:04	0 12:45	0.67	66.00
6 OS-26	18.12	4.14	2.83	3.23	0.00	0.01	0.88	1.28	0 12:44	0 00:00	0.00	0.00
7 OS-3	24.71	0.00	0.57	1.61	0.00	1.63	-0.38	0.66	0 12:45	0 00:00	0.00	0.00
8 OS-31	7.38	5.76	4.11	1.08	0.00	0.00	3.65	0.62	0 10:53	0 12:45	9.80	239.00
9 OS-38	4.14	1.62	6.02	1.08	0.00	0.00	5.39	0.45	0 11:54	0 12:45	3.78	124.00
10 OS-4	24.74	4.40	1.89	2.87	0.00	0.37	0.30	1.28	0 12:45	0 00:00	0.00	0.00
11 OS-41	4.79	4.79	6.34	1.08	0.00	0.00	5.53	0.27	0 12:12	0 12:45	0.87	46.00
12 OS-44	4.64	3.93	4.00	1.08	0.00	0.00	3.38	0.46	0 11:52	0 12:45	3.77	134.00
13 OS-4A	1.98	0.73	4.96	1.08	0.00	0.00	4.29	0.41	0 11:55	0 12:45	0.15	49.00
14 OS-5	20.41	2.79	2.32	3.08	0.00	0.16	0.49	1.25	0 12:45	0 00:00	0.00	0.00
15 OS-70	26.14	20.36	2.89	3.24	0.00	0.00	1.08	1.43	0 11:59	0 12:45	15.26	92.00
16 OS-75	17.90	5.72	2.89	3.14	0.00	0.11	0.98	1.23	0 12:44	0 00:00	0.00	0.00
17 OS-76	32.52	15.97	2.99	2.72	0.00	0.00	1.25	0.98	0 11:56	0 12:45	29.18	126.00
18 OS-81	16.60	11.30	3.70	1.68	0.00	1.04	2.55	0.53	0 12:45	0 00:00	0.00	0.00
19 OS-83	19.24	13.00	3.80	2.72	0.00	0.00	2.62	1.54	0 12:08	0 12:45	6.39	59.00
20 OS-86	5.48	3.71	3.88	2.18	0.00	0.54	2.64	0.94	0 12:45	0 00:00	0.00	0.00
21 OS-89	1.79	1.43	3.90	1.75	0.00	0.41	2.66	0.51	0 12:45	0 00:00	0.00	0.00
22 OS-92	0.36	0.36	4.05	0.19	0.00	1.97	3.91	0.05	0 12:45	0 00:00	0.00	0.00

Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate
1 Pipe - (100)	249.54	3.03	0.00	2.92	0.00	0.11	0.0400	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
2 Pipe - (101)	398.64	2.92	0.00	1.08	0.00	1.84	0.4600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
3 Pipe - (103)	227.53	3.86	0.00	2.15	0.00	1.71	0.7500	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No
4 Pipe - (104)	377.37	2.15	0.00	1.70	0.00	0.45	0.1200	CIRCULAR	24.000	24.000	0.0130	0.5000	0.5000	0.0000	0.00	No
5 Pipe - (106)	379.32	1.70	0.00	1.08	0.00	0.62	0.1600	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
6 Pipe - (107)	381.18	1.08	0.00	2.02	0.00	-0.94	-0.2500	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
7 Pipe - (108)	392.28	2.02	0.00	0.27	0.00	1.75	0.4500	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
8 Pipe - (109)	370.54	0.27	0.00	-0.35	0.00	0.62	0.1700	CIRCULAR	30.000	30.000	0.0130	0.5000	0.5000	0.0000	0.00	No
9 Pipe - (110)	291.71	-0.35	0.00	-0.25	0.00	-0.10	-0.0300	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
10 Pipe - (111)	193.31	-0.25	0.00	-0.40	0.00	0.15	0.0800	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
11 Pipe - (112)	204.76	-0.40	0.00	-0.53	0.00	0.13	0.0600	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
12 Pipe - (113)	264.34	-0.53	0.00	-0.64	0.00	0.11	0.0400	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
13 Pipe - (114)	254.98	-0.64	0.00	-0.76	0.00	0.12	0.0500	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
14 Pipe - (115)	361.25	-0.76	0.00	-0.98	0.00	0.22	0.0600	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
15 Pipe - (116)	410.47	-0.98	0.00	-1.04	0.00	0.06	0.0100	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
16 Pipe - (117)	138.08	-1.04	0.00	-2.12	0.00	1.08	0.7800	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
17 Pipe - (118)	67.98	-2.12	0.00	-4.55	0.00	2.43	3.5700	CIRCULAR	36.000	36.000	0.0130	0.5000	0.5000	0.0000	0.00	No
18 Pipe - (95)	312.89	4.94	0.00	4.76	0.00	0.18	0.0600	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
19 Pipe - (96)	305.40	4.76	0.00	4.00	0.00	0.76	0.2500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
20 Pipe - (97)	31.57	5.26	0.00	4.94	0.00	0.32	1.0100	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
21 Pipe - (98)	64.15	4.00	0.00	3.88	0.00	0.12	0.1900	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
22 Pipe - (99)	379.38	3.88	0.00	3.03	0.00	0.85	0.2200	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
1 Pipe - (100)	1.41	0 10:53	1.59	0.89	1.95	2.13	1.00	1.00	144.00	0.31	SURCHARGED
2 Pipe - (101)	1.77	0 10:58	2.42	0.73	2.33	2.85	1.00	1.00	144.00	0.16	SURCHARGED
3 Pipe - (103)	0.36	0 12:45	19.61	0.02	0.43	8.82	0.97	0.48	0.00	0.05	Calculated
4 Pipe - (104)	1.83	0 12:46	10.12	0.18	0.60	10.48	1.88	0.94	0.00	0.03	Calculated
5 Pipe - (106)	5.49	0 12:45	18.34	0.30	1.15	5.50	2.34	0.94	0.00	0.02	Calculated
6 Pipe - (107)	8.67	0 13:07	20.37	0.43	2.08	3.05	2.09	0.84	0.00	0.15	Calculated
7 Pipe - (108)	16.55	0 12:45	27.40	0.60	3.78	1.73	2.09	0.84	0.00	0.55	Calculated
8 Pipe - (109)	10.88	0 11:56	18.34	0.59	2.22	2.78	2.50	1.00	136.00	0.22	SURCHARGED
9 Pipe - (110)	16.01	0 11:57	29.83	0.54	2.30	2.11	3.00	1.00	93.00	0.20	SURCHARGED
10 Pipe - (111)	16.72	0 11:57	29.83	0.56	2.45	1.32	3.00	1.00	93.00	0.26	SURCHARGED
11 Pipe - (112)	17.39	0 11:58	29.83	0.58	2.54	1.34	3.00	1.00	74.00	0.24	SURCHARGED
12 Pipe - (113)	17.29	0 11:58	29.83	0.58	2.55	1.73	3.00	1.00	49.00	0.24	SURCHARGED
13 Pipe - (114)	18.65	0 12:00	29.83	0.63	2.82	1.51	3.00	1.00	25.00	0.28	SURCHARGED
14 Pipe - (115)	20.39	0 12:28	29.83	0.68	2.94	2.05	2.94	0.98	0.00	0.27	Calculated
15 Pipe - (116)	24.71	0 12:45	29.83	0.83	4.36	1.57	2.24	0.75	0.00	0.48	Calculated
16 Pipe - (117)	24.69	0 12:45	58.99	0.42	7.64	0.30	1.40	0.47	0.00	1.48	Calculated
17 Pipe - (118)	24.69	0 12:45	126.10	0.20	11.27	0.10	1.04	0.35	0.00	2.43	Calculated
18 Pipe - (95)	1.36	0 11:55	1.59	0.86	1.85	2.82	1.00	1.00	97.00	0.30	SURCHARGED
19 Pipe - (96)	1.69	0 12:27	1.78	0.95	2.23	2.28	1.00	1.00	97.00	0.45	SURCHARGED
20 Pipe - (97)	2.53	0 12:25	3.59	0.70	3.22	0.16	1.00	1.00	54.00	0.36	SURCHARGED
21 Pipe - (98)	1.75	0 11:55	1.59	1.10	2.24	0.48	1.00	1.00	137.00	0.44	SURCHARGED
22 Pipe - (99)	1.62	0 12:21	1.69	0.96	2.06	3.07	1.00	1.00	137.00	0.25	SURCHARGED

Adams Street 100-year Flow SWMM Modeling Report (Excluding Outside)

Project Description

File Name ADAMS STREET PUMP STATION BASIN - EXCLUDING THE PORTIONS OUTSIDE LEVEE_EX 100 YEAR

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Dec 22, 1961 06:30:00
End Analysis On Dec 23, 1961 06:30:00
Start Reporting On Dec 22, 1961 06:30:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	95
<i>Junctions</i>	94
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	93
<i>Channels</i>	0
<i>Pipes</i>	93
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

Node Summary

SN Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
88 SD-79A	Junction	7.02	14.39	7.02	14.39	0.00	7.16	13.42	0.00	0.97	0 00:00	0.00	0.00
89 SD-8	Junction	0.92	9.79	0.92	9.79	0.00	3.19	7.67	0.00	2.13	0 00:00	0.00	0.00
90 SD-80	Junction	9.46	13.86	9.46	13.86	0.00	3.39	13.86	0.00	0.00	0 11:10	0.00	0.00
91 SD-80A	Junction	8.56	13.76	8.56	13.76	0.00	17.25	13.76	0.00	0.00	0 11:30	9.69	123.00
92 SD-81	Junction	3.95	10.41	3.95	10.41	0.00	0.73	8.80	0.00	1.60	0 00:00	0.00	0.00
93 SD-9	Junction	0.18	10.03	0.18	10.03	0.00	3.49	6.32	0.00	3.71	0 00:00	0.00	0.00
94 SD-91	Junction	4.00	11.26	4.00	11.26	0.00	0.97	4.46	0.00	6.80	0 00:00	0.00	0.00
95 DUMMY-MH	Outfall	-6.00					49.51	-3.71					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged (min)	Reported Condition
1	OUTFALL-PIPE	Pipe	PS	DUMMY-MH	140.52	-5.14	-6.00	0.6100	30.000	0.0130	49.51	32.09	1.54	10.23	2.40	0.96	0.00	> CAPACITY
2	Pipe - (102)	Pipe	SD-12	SD-57	81.64	0.08	0.45	-0.4500	21.000	0.0130	6.07	10.67	0.57	2.53	1.75	1.00	46.00	SURCHARGED
3	Pipe - (103)	Pipe	SD-57	NODE-26	10.00	0.45	0.39	0.6500	21.000	0.0130	6.04	12.77	0.47	3.20	1.75	1.00	46.00	SURCHARGED
4	Pipe - (104)	Pipe	NODE-26	NODE-27	36.70	0.39	0.14	0.6700	21.000	0.0130	6.18	12.95	0.48	3.89	1.75	1.00	46.00	SURCHARGED
5	Pipe - (105)	Pipe	NODE-27	SD-56	128.68	0.14	-0.72	0.6700	21.000	0.0130	6.78	12.95	0.52	3.64	1.75	1.00	49.00	SURCHARGED
6	Pipe - (106)	Pipe	SD-56	NODE-28	144.89	-0.72	-1.12	0.2800	21.000	0.0130	6.77	8.33	0.81	2.93	1.75	1.00	59.00	SURCHARGED
7	Pipe - (107)	Pipe	NODE-28	SD-58	226.13	-1.12	-1.74	0.2700	21.000	0.0130	7.84	8.30	0.94	3.26	1.75	1.00	63.00	SURCHARGED
8	Pipe - (108)	Pipe	SD-58	NODE-29	62.25	-1.74	-1.93	0.3100	21.000	0.0130	7.84	8.75	0.90	3.26	1.75	1.00	69.00	SURCHARGED
9	Pipe - (109)	Pipe	NODE-29	NODE-30	244.85	-1.93	-2.67	0.3000	21.000	0.0130	8.46	8.71	0.97	3.52	1.75	1.00	70.00	SURCHARGED
10	Pipe - (110)	Pipe	NODE-30	SD-69	57.89	-2.67	-2.85	0.3100	21.000	0.0130	8.81	8.84	1.00	3.66	1.75	1.00	79.00	SURCHARGED
11	Pipe - (135)	Pipe	SD-69	SD-70	377.67	-2.85	-4.74	0.5000	30.000	0.0130	12.96	23.79	0.54	2.64	2.50	1.00	63.00	SURCHARGED
12	Pipe - (136)	Pipe	SD-91	SD-71	279.86	4.00	3.30	0.2500	18.000	0.0130	0.96	5.25	0.18	2.76	0.37	0.25	0.00	Calculated
13	Pipe - (137)	Pipe	SD-71	SD-63	110.61	3.30	1.90	1.2700	18.000	0.0130	0.95	11.82	0.08	2.02	0.47	0.31	0.00	Calculated
14	Pipe - (138)	Pipe	SD-63	NODE-40	56.10	1.90	1.70	0.3600	21.000	0.0130	2.09	9.46	0.22	2.71	0.66	0.38	0.00	Calculated
15	Pipe - (139)	Pipe	NODE-40	NODE-39	224.60	1.70	0.89	0.3600	21.000	0.0130	2.39	9.51	0.25	2.75	1.06	0.61	0.00	Calculated
16	Pipe - (140)	Pipe	NODE-39	SD-65	63.36	0.89	0.66	0.3600	21.000	0.0130	2.68	9.51	0.28	2.60	1.52	0.88	0.00	Calculated
17	Pipe - (141)	Pipe	SD-65	NODE-38	100.15	0.66	0.40	0.2600	21.000	0.0130	2.82	8.07	0.35	2.64	1.69	0.97	0.00	Calculated
18	Pipe - (142)	Pipe	NODE-38	NODE-37	219.19	0.40	-0.17	0.2600	21.000	0.0130	3.23	8.08	0.40	2.45	1.75	1.00	6.00	SURCHARGED
19	Pipe - (143)	Pipe	NODE-37	SD-66	94.99	-0.17	-0.42	0.2600	21.000	0.0130	3.67	8.08	0.45	2.38	1.75	1.00	14.00	SURCHARGED
20	Pipe - (144)	Pipe	SD-66	NODE-36	66.14	-0.42	-0.53	0.1700	24.000	0.0130	3.83	10.12	0.38	2.11	2.00	1.00	13.00	SURCHARGED
21	Pipe - (145)	Pipe	NODE-36	NODE-35	216.34	-0.53	-0.88	0.1600	24.000	0.0130	4.09	10.12	0.40	2.22	2.00	1.00	14.00	SURCHARGED
22	Pipe - (146)	Pipe	NODE-35	SD-67	101.73	-0.90	-1.05	0.1500	24.000	0.0130	4.24	10.12	0.42	2.43	2.00	1.00	19.00	SURCHARGED
23	Pipe - (147)	Pipe	SD-67	NODE-34	58.11	-1.05	-1.26	0.3600	24.000	0.0130	4.26	13.57	0.31	2.91	2.00	1.00	21.00	SURCHARGED
24	Pipe - (148)	Pipe	NODE-34	NODE-33	213.86	-1.26	-2.03	0.3600	24.000	0.0130	4.44	13.57	0.33	2.74	2.00	1.00	27.00	SURCHARGED
25	Pipe - (149)	Pipe	NODE-33	SD-68	67.23	-2.03	-2.28	0.3700	24.000	0.0130	4.58	13.79	0.33	2.24	2.00	1.00	59.00	SURCHARGED
26	Pipe - (150)	Pipe	SD-68	NODE-32	104.23	-2.28	-2.43	0.1400	27.000	0.0130	4.60	13.85	0.33	1.82	2.25	1.00	59.00	SURCHARGED
27	Pipe - (151)	Pipe	NODE-32	NODE-31	215.33	-2.43	-2.73	0.1400	27.000	0.0130	4.79	13.85	0.35	1.65	2.25	1.00	61.00	SURCHARGED
28	Pipe - (152)	Pipe	NODE-31	SD-69	88.26	-2.73	-2.85	0.1400	27.000	0.0130	5.10	13.85	0.37	1.58	2.25	1.00	67.00	SURCHARGED
29	Pipe - (28)	Pipe	CBSD-29	NODE-1	88.33	48.55	38.31	11.5900	12.000	0.0130	2.16	12.13	0.18	9.42	0.33	0.33	0.00	Calculated
30	Pipe - (29)	Pipe	NODE-1	NODE-2	62.30	38.31	31.09	11.5900	12.000	0.0130	3.11	12.13	0.26	11.94	0.37	0.37	0.00	Calculated
31	Pipe - (30)	Pipe	NODE-2	SD-28	199.34	31.09	7.98	11.5900	12.000	0.0130	3.15	12.13	0.26	5.59	0.67	0.67	0.00	Calculated
32	Pipe - (32)	Pipe	SD-28	SD-27	38.09	7.98	6.08	4.9900	12.000	0.0130	4.68	7.96	0.59	7.02	1.00	1.00	70.00	SURCHARGED
33	Pipe - (33)	Pipe	SD-27	SD-26	133.88	6.08	4.65	1.0700	15.000	0.0130	4.76	6.68	0.71	3.88	1.25	1.00	76.00	SURCHARGED
34	Pipe - (34)	Pipe	SD-26	SD-18	153.50	4.65	4.02	0.4100	15.000	0.0130	5.13	4.14	1.24	4.18	1.25	1.00	87.00	SURCHARGED
35	Pipe - (35)	Pipe	SD-18	SD-17	29.54	4.02	4.08	-0.2000	15.000	0.0130	5.97	2.91	2.05	4.87	1.25	1.00	82.00	SURCHARGED
36	Pipe - (36)	Pipe	SD-17	NODE-3	224.53	4.08	2.82	0.5600	18.000	0.0130	7.01	7.87	0.89	3.97	1.50	1.00	79.00	SURCHARGED
37	Pipe - (37)	Pipe	NODE-3	SD-11	82.95	2.82	2.35	0.5700	18.000	0.0130	7.50	7.91	0.95	4.24	1.50	1.00	88.00	SURCHARGED
38	Pipe - (38)	Pipe	SD-11	NODE-4	42.20	2.35	2.22	0.3100	21.000	0.0130	7.66	8.79	0.87	3.19	1.75	1.00	86.00	SURCHARGED
39	Pipe - (39)	Pipe	NODE-4	NODE-5	109.02	2.22	1.86	0.3300	21.000	0.0130	7.97	9.11	0.88	3.32	1.75	1.00	87.00	SURCHARGED
40	Pipe - (40)	Pipe	SD-80A	SD-79A	307.78	8.56	7.02	0.5000	18.000	0.0130	6.31	7.43	0.85	3.57	1.50	1.00	218.00	SURCHARGED
41	Pipe - (41)	Pipe	SD-79A	SD-78A	158.97	7.02	6.52	0.3100	18.000	0.0130	7.16	5.89	1.21	4.05	1.50	1.00	242.00	SURCHARGED
42	Pipe - (44)	Pipe	SD-76B	SD-76A	37.71	5.48	5.25	0.6100	18.000	0.0130	7.77	8.20	0.95	4.40	1.50	1.00	265.00	SURCHARGED
43	Pipe - (45)	Pipe	SD-76A	NODE-18A	177.69	5.25	4.36	0.5000	18.000	0.0130	7.80	7.43	1.05	4.41	1.50	1.00	265.00	SURCHARGED
44	Pipe - (46)	Pipe	NODE-18A	NODE-19A	137.94	4.36	3.68	0.4900	18.000	0.0130	7.99	7.38	1.08	4.52	1.50	1.00	280.00	SURCHARGED
45	Pipe - (47)	Pipe	NODE-19A	NODE-20A	146.42	3.68	2.95	0.5000	18.000	0.0130	8.16	7.42	1.10	4.62	1.50	1.00	289.00	SURCHARGED
46	Pipe - (48)	Pipe	NODE-20A	SD-75	28.91	2.95	2.80	0.5200	18.000	0.0130	8.29	7.57	1.10	4.69	1.50	1.00	288.00	SURCHARGED
47	Pipe - (51)	Pipe	SD-75	NODE-17	151.85	2.80	2.48	0.2100	24.000	0.0130	8.66	10.39	0.83	2.76	2.00	1.00	209.00	SURCHARGED
48	Pipe - (52)	Pipe	NODE-17	SD-79	157.61	2.48	2.14	0.2200	24.000	0.0130	9.74	10.51	0.93	3.10	2.00	1.00	214.00	SURCHARGED
49	Pipe - (53)	Pipe	SD-80	NODE-18	188.40	9.46	6.65	1.4900	12.000	0.0130	3.39	4.35	0.78	4.31	1.00	1.00	69.00	SURCHARGED
50	Pipe - (54)	Pipe	NODE-18	NODE-19	112.97	6.65	4.97	1.4900	12.000	0.0130	3.57	4.34	0.82	5.10	1.00	1.00	89.00	SURCHARGED
51	Pipe - (55)	Pipe	NODE-19	NODE-20	166.50	4.97	2.49	1.4900	12.000	0.0130	3.85	4.35	0.89	4.90	1.00	1.00	197.00	SURCHARGED
52	Pipe - (56)	Pipe	NODE-20	SD-79	23.93	2.49	2.14	1.4600	12.000	0.0130	4.29	4.31	1.00	5.46	1.00	1.00	388.00	SURCHARGED
53	Pipe - (57)	Pipe	SD-79	NODE-18B	97.50	2.14	1.89	0.2600	24.000	0.0130	13.85	11.46	1.21	4.41	2.00	1.00	205.00	SURCHARGED
54	Pipe - (58)	Pipe	NODE-18B	NODE-19B	128.08	1.89	1.56	0.2600	24.000	0.0130	13.85	11.48	1.21	4.41	2.00	1.00	200.00	SURCHARGED
55	Pipe - (59)	Pipe	NODE-19B	NODE-20B	190.61	1.56	1.07	0.2600	24.000	0.0130	13.84	11.47	1.21	4.41	2.00	1.00	129.00	SURCHARGED
56	Pipe - (60)	Pipe	NODE-20B	SD-78	56.62	1.07	0.92	0.2600	24.000	0.0130	13.85	11.64	1.19	5.42	2.00	1.00	83.00	SURCHARGED

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Reported Surcharged Condition
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)		(min)
57	Pipe - (61)	Pipe	SD-78	SD-77	28.68	0.92	-0.24	4.0400	24.000	0.0130	13.85	45.50	0.30	4.41	2.00	1.00	83.00 SURCHARGED
58	Pipe - (62)	Pipe	SD-77	SD-76	144.33	-0.24	-0.48	0.1700	27.000	0.0130	25.76	13.85	1.86	6.48	2.25	1.00	68.00 SURCHARGED
59	Pipe - (63)	Pipe	SD-76	NODE-22	223.98	-0.48	-1.62	0.5100	30.000	0.0130	28.52	29.26	0.97	5.81	2.50	1.00	53.00 SURCHARGED
60	Pipe - (64)	Pipe	SD-74	PS	77.02	-2.32	-5.14	3.6600	36.000	0.0130	31.94	127.62	0.25	5.61	2.82	0.95	0.00 Calculated
61	Pipe - (65)	Pipe	SD-73	PS	59.39	-5.14	-5.14	0.0000	36.000	0.0130	18.48	29.83	0.62	2.61	3.00	1.00	93.00 SURCHARGED
62	Pipe - (66)	Pipe	SD-10	NODE-21	73.71	1.28	0.97	0.4200	21.000	0.0130	9.70	10.29	0.94	4.03	1.75	1.00	136.00 SURCHARGED
63	Pipe - (66) (1)	Pipe	NODE-21	SD-77	286.95	0.97	-0.24	0.4200	21.000	0.0130	10.11	10.29	0.98	4.20	1.75	1.00	175.00 SURCHARGED
64	Pipe - (67)	Pipe	NODE-5	SD-10	179.84	1.86	1.28	0.3200	21.000	0.0130	9.42	9.00	1.05	3.91	1.75	1.00	91.00 SURCHARGED
65	Pipe - (68)	Pipe	SD-78A	SD-76B	173.98	6.52	5.48	0.6000	18.000	0.0130	7.78	8.12	0.96	4.40	1.50	1.00	242.00 SURCHARGED
66	Pipe - (69)	Pipe	NODE-22	SD-74	138.16	-1.62	-2.32	0.5100	30.000	0.0130	32.15	29.20	1.10	8.62	2.50	1.00	9.00 SURCHARGED
67	Pipe - (71)	Pipe	SD-72	SD-73	255.30	-4.83	-5.14	0.1200	33.000	0.0130	18.47	23.65	0.78	3.11	2.75	1.00	98.00 SURCHARGED
68	Pipe - (73)	Pipe	NODE-15B	SD-8	38.10	1.03	0.92	0.2900	12.000	0.0130	3.19	1.91	1.67	4.07	1.00	1.00	206.00 SURCHARGED
69	Pipe - (74)	Pipe	NODE-15A	NODE-15B	226.88	1.71	1.03	0.3000	12.000	0.0130	2.99	1.95	1.53	3.80	1.00	1.00	180.00 SURCHARGED
70	Pipe - (75)	Pipe	NODE-13	NODE-14	41.97	2.04	1.91	0.3100	12.000	0.0130	2.21	1.98	1.12	2.82	1.00	1.00	168.00 SURCHARGED
71	Pipe - (76)	Pipe	NODE-14	NODE-15A	67.54	1.91	1.71	0.3000	12.000	0.0130	2.78	1.94	1.43	3.53	1.00	1.00	175.00 SURCHARGED
72	Pipe - (77)	Pipe	NODE-11	NODE-12	41.35	2.77	2.65	0.2900	12.000	0.0130	2.84	1.92	1.48	3.62	1.00	1.00	83.00 SURCHARGED
73	Pipe - (78)	Pipe	NODE-12	NODE-13	204.16	2.65	2.04	0.3000	12.000	0.0130	2.05	1.95	1.05	2.61	1.00	1.00	85.00 SURCHARGED
74	Pipe - (79)	Pipe	SD-8	NODE-16A	108.51	0.92	0.66	0.2400	12.000	0.0130	3.19	1.74	1.83	4.06	1.00	1.00	200.00 SURCHARGED
75	Pipe - (80)	Pipe	NODE-16A	NODE-16B	71.40	0.66	0.49	0.2400	12.000	0.0130	3.32	1.74	1.91	4.23	1.00	1.00	88.00 SURCHARGED
76	Pipe - (81)	Pipe	NODE-16B	SD-9	127.30	0.49	0.18	0.2400	12.000	0.0130	3.46	1.76	1.97	4.40	1.00	1.00	72.00 SURCHARGED
77	Pipe - (82)	Pipe	SD-9	SD-60	279.82	0.18	-0.80	0.3500	15.000	0.0130	3.38	3.82	0.88	3.30	1.25	1.00	68.00 SURCHARGED
78	Pipe - (83)	Pipe	SD-60	NODE 25	109.17	-0.80	-1.70	0.8200	15.000	0.0130	4.48	5.87	0.76	4.42	1.25	1.00	76.00 SURCHARGED
79	Pipe - (84)	Pipe	NODE 25	NODE-24	245.49	-1.70	-3.71	0.8200	15.000	0.0130	4.92	5.85	0.84	4.01	1.25	1.00	86.00 SURCHARGED
80	Pipe - (85)	Pipe	NODE-24	SD-70	48.58	-3.71	-4.12	0.8400	15.000	0.0130	5.54	5.93	0.93	4.52	1.25	1.00	243.00 SURCHARGED
81	Pipe - (86)	Pipe	SD-70	NODE-23	51.28	-4.12	-4.22	0.1900	33.000	0.0130	18.45	23.65	0.78	3.11	2.75	1.00	84.00 SURCHARGED
82	Pipe - (87)	Pipe	NODE-23	SD-72	316.28	-4.22	-4.83	0.1900	33.000	0.0130	18.46	23.65	0.78	3.11	2.75	1.00	84.00 SURCHARGED
83	Pipe - (88)	Pipe	CBSD-22	NODE-6	239.33	5.74	4.26	0.6200	15.000	0.0130	3.81	5.08	0.75	3.62	1.25	1.00	16.00 SURCHARGED
84	Pipe - (89)	Pipe	NODE-6	SD-15	79.46	4.26	3.76	0.6300	15.000	0.0130	4.43	5.12	0.87	3.61	1.25	1.00	21.00 SURCHARGED
85	Pipe - (90)	Pipe	SD-15	NODE-7	41.00	3.76	3.52	0.5900	15.000	0.0130	4.43	4.94	0.90	3.61	1.25	1.00	23.00 SURCHARGED
86	Pipe - (91)	Pipe	NODE-7	NODE-8	232.34	3.52	2.18	0.5800	15.000	0.0130	5.32	4.91	1.08	4.33	1.25	1.00	24.00 SURCHARGED
87	Pipe - (92)	Pipe	NODE-8	SD-7	31.53	2.18	2.00	0.5700	15.000	0.0130	5.64	4.88	1.16	4.60	1.25	1.00	43.00 SURCHARGED
88	Pipe - (93)	Pipe	SD-7	NODE-9	77.64	2.00	1.57	0.5500	18.000	0.0130	5.63	7.82	0.72	3.94	1.50	1.00	22.00 SURCHARGED
89	Pipe - (94)	Pipe	NODE-9	NODE-10	230.06	1.57	0.29	0.5600	18.000	0.0130	6.02	7.85	0.77	3.41	1.50	1.00	43.00 SURCHARGED
90	Pipe - (95)	Pipe	NODE-10	SD-12	36.83	0.29	0.08	0.5600	18.000	0.0130	6.13	7.84	0.78	3.47	1.50	1.00	66.00 SURCHARGED
91	Pipe - (96)	Pipe	SD-77A	SD-76A	77.73	5.96	5.25	0.9100	18.000	0.0130	0.21	10.04	0.02	0.80	1.50	1.00	216.00 SURCHARGED
92	Pipe - (97)	Pipe	SD-81	NODE-5B	146.12	3.95	3.15	0.5500	12.000	0.0130	0.73	2.64	0.28	1.23	1.00	1.00	203.00 SURCHARGED
93	Pipe - (98)	Pipe	NODE-5B	SD-75	63.81	3.15	2.80	0.5500	12.000	0.0130	0.73	2.64	0.28	0.93	1.00	1.00	314.00 SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	CBSD-22	5.74	10.00	4.26	5.74	0.00	10.00	0.00	0.00	0.00
2	CBSD-29	48.55	50.00	1.45	48.55	0.00	50.00	0.00	0.00	0.00
3	NODE 25	-1.70	9.81	11.51	-1.70	0.00	9.81	0.00	0.00	0.00
4	NODE-1	38.31	48.68	10.37	38.31	0.00	48.68	0.00	0.00	0.00
5	NODE-10	0.29	9.84	9.55	0.29	0.00	9.84	0.00	0.00	0.00
6	NODE-11	2.77	10.15	7.38	2.77	0.00	10.15	0.00	0.00	0.00
7	NODE-12	2.65	9.62	6.97	2.65	0.00	9.62	0.00	0.00	0.00
8	NODE-13	2.04	8.84	6.80	2.04	0.00	8.84	0.00	0.00	0.00
9	NODE-14	1.91	9.08	7.17	1.91	0.00	9.08	0.00	0.00	0.00
10	NODE-15A	1.71	8.89	7.18	1.71	0.00	8.89	0.00	0.00	0.00
11	NODE-15B	1.03	9.35	8.32	1.03	0.00	9.35	0.00	0.00	0.00
12	NODE-16A	0.66	9.43	8.77	0.66	0.00	9.43	0.00	0.00	0.00
13	NODE-16B	0.49	9.59	9.10	0.49	0.00	9.59	0.00	0.00	0.00
14	NODE-17	2.48	10.06	7.58	2.48	0.00	10.06	0.00	0.00	0.00
15	NODE-18	6.65	11.32	4.67	6.65	0.00	11.32	0.00	0.00	0.00
16	NODE-18A	4.36	10.18	5.82	4.36	0.00	10.18	0.00	0.00	0.00
17	NODE-18B	1.89	9.97	8.08	1.89	0.00	9.97	0.00	0.00	0.00
18	NODE-19	4.97	9.90	4.93	4.97	0.00	9.90	0.00	0.00	0.00
19	NODE-19A	3.68	10.37	6.69	3.68	0.00	10.37	0.00	0.00	0.00
20	NODE-19B	1.56	9.83	8.27	1.56	0.00	9.83	0.00	0.00	0.00
21	NODE-2	31.09	35.59	4.50	31.09	0.00	35.59	0.00	0.00	0.00
22	NODE-20	2.49	10.63	8.14	2.49	0.00	10.63	0.00	0.00	0.00
23	NODE-20A	2.95	10.14	7.19	2.95	0.00	10.14	0.00	0.00	0.00
24	NODE-20B	1.07	9.83	8.76	1.07	0.00	9.83	0.00	0.00	0.00
25	NODE-21	0.97	9.77	8.80	0.97	0.00	9.77	0.00	0.00	0.00
26	NODE-22	-1.62	10.38	12.00	-1.62	0.00	10.38	0.00	0.00	0.00
27	NODE-23	-4.22	9.30	13.52	-4.22	0.00	9.30	0.00	0.00	0.00
28	NODE-24	-3.71	9.77	13.48	-3.71	0.00	9.77	0.00	0.00	0.00
29	NODE-26	0.39	10.11	9.73	0.39	0.00	10.11	0.00	0.00	0.00
30	NODE-27	0.14	10.05	9.91	0.14	0.00	10.05	0.00	0.00	0.00
31	NODE-28	-1.12	9.32	10.44	-1.12	0.00	9.32	0.00	0.00	0.00
32	NODE-29	-1.93	9.67	11.60	-1.93	0.00	9.67	0.00	0.00	0.00
33	NODE-3	2.82	9.76	6.94	2.82	0.00	9.76	0.00	0.00	0.00
34	NODE-30	-2.67	9.60	12.27	-2.67	0.00	9.60	0.00	0.00	0.00
35	NODE-31	-2.73	10.23	12.96	-2.73	0.00	10.23	0.00	0.00	0.00
36	NODE-32	-2.43	10.40	12.83	-2.43	0.00	10.40	0.00	0.00	0.00
37	NODE-33	-2.03	10.06	12.09	-2.03	0.00	10.06	0.00	0.00	0.00
38	NODE-34	-1.26	10.05	11.31	-1.26	0.00	10.05	0.00	0.00	0.00
39	NODE-35	-0.90	10.33	11.23	-0.90	0.00	10.33	0.00	0.00	0.00
40	NODE-36	-0.53	10.61	11.14	-0.53	0.00	10.61	0.00	0.00	0.00
41	NODE-37	-0.17	10.74	10.91	-0.17	0.00	10.74	0.00	0.00	0.00
42	NODE-38	0.40	11.28	10.88	0.40	0.00	11.28	0.00	0.00	0.00
43	NODE-39	0.89	11.70	10.81	0.89	0.00	11.70	0.00	0.00	0.00
44	NODE-4	2.22	9.84	7.62	2.22	0.00	9.84	0.00	0.00	0.00
45	NODE-40	1.70	11.81	10.11	1.70	0.00	11.81	0.00	0.00	0.00
46	NODE-5	1.86	10.79	8.93	1.86	0.00	10.79	0.00	0.00	0.00
47	NODE-5B	3.15	10.17	7.02	3.15	0.00	10.17	0.00	0.00	0.00
48	NODE-6	4.26	9.22	4.96	4.26	0.00	9.22	0.00	0.00	0.00
49	NODE-7	3.52	8.86	5.34	3.52	0.00	8.86	0.00	0.00	0.00
50	NODE-8	2.18	9.00	6.82	2.18	0.00	9.00	0.00	0.00	0.00
51	NODE-9	1.57	9.02	7.45	1.57	0.00	9.02	0.00	0.00	0.00
52	Out-1Pipe - (71)	-5.14	0.86	6.00	-5.14	0.00	0.86	0.00	0.00	0.00
53	PS	-5.14	11.64	16.78	-5.14	0.00	11.64	0.00	0.00	0.00
54	SD-10	1.28	10.14	8.86	1.28	0.00	10.14	0.00	0.00	0.00
55	SD-11	2.35	9.85	7.50	2.35	0.00	9.85	0.00	0.00	0.00
56	SD-12	0.08	10.68	10.60	0.08	0.00	10.68	0.00	0.00	0.00
57	SD-15	3.76	9.27	5.51	3.76	0.00	9.27	0.00	0.00	0.00
58	SD-17	4.08	9.88	5.80	4.08	0.00	9.88	0.00	0.00	0.00
59	SD-18	4.02	9.91	5.89	4.02	0.00	9.91	0.00	0.00	0.00
60	SD-26	4.65	10.68	6.03	4.65	0.00	10.68	0.00	0.00	0.00
61	SD-27	6.08	12.02	5.94	6.08	0.00	12.02	0.00	0.00	0.00
62	SD-28	7.98	12.84	4.86	7.98	0.00	12.84	0.00	0.00	0.00
63	SD-56	-0.72	10.13	10.85	-0.72	0.00	10.13	0.00	0.00	0.00
64	SD-57	0.45	9.84	9.39	0.45	0.00	9.84	0.00	0.00	0.00
65	SD-58	-1.74	10.27	12.01	-1.74	0.00	10.27	0.00	0.00	0.00
66	SD-60	-0.80	10.18	10.98	-0.80	0.00	10.18	0.00	0.00	0.00
67	SD-63	1.90	12.10	10.20	1.90	0.00	12.10	0.00	0.00	0.00
68	SD-65	0.66	11.90	11.24	0.66	0.00	11.90	0.00	0.00	0.00
69	SD-66	-0.42	10.85	11.27	-0.42	0.00	10.85	0.00	0.00	0.00
70	SD-67	-1.05	10.00	11.05	-1.05	0.00	10.00	0.00	0.00	0.00
71	SD-68	-2.28	10.35	12.63	-2.28	0.00	10.35	0.00	0.00	0.00
72	SD-69	-2.85	10.34	13.19	-2.85	0.00	10.34	0.00	0.00	0.00
73	SD-7	2.00	9.48	7.48	2.00	0.00	9.48	0.00	0.00	0.00
74	SD-70	-4.12	10.20	14.32	-4.12	0.00	10.20	0.00	0.00	0.00
75	SD-71	3.30	12.56	9.26	3.30	0.00	12.56	0.00	0.00	0.00
76	SD-72	-4.83	9.83	14.66	-4.83	0.00	9.83	0.00	0.00	0.00
77	SD-73	-5.14	10.72	15.86	-5.14	0.00	10.72	0.00	0.00	0.00
78	SD-74	-2.32	11.35	13.67	-2.32	0.00	11.35	0.00	0.00	0.00
79	SD-75	2.80	10.22	7.42	2.80	0.00	10.22	0.00	0.00	0.00
80	SD-76	-0.48	9.34	9.82	-0.48	0.00	9.34	0.00	0.00	0.00
81	SD-76A	5.25	12.28	7.03	5.25	0.00	12.28	0.00	0.00	0.00
82	SD-76B	5.48	14.93	9.45	5.48	0.00	14.93	0.00	0.00	0.00
83	SD-77	-0.24	9.76	10.00	-0.24	0.00	9.76	0.00	0.00	0.00
84	SD-77A	5.96	12.94	6.98	5.96	0.00	12.94	0.00	0.00	0.00
85	SD-78	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00
86	SD-78A	6.52	14.61	8.09	6.52	0.00	14.61	0.00	0.00	0.00
87	SD-79	2.14	10.86	8.72	2.14	0.00	10.86	0.00	0.00	0.00
88	SD-79A	7.02	14.39	7.37	7.02	0.00	14.39	0.00	0.00	0.00

Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
89 SD-8	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00
90 SD-80	9.46	13.86	4.40	9.46	0.00	13.86	0.00	0.00	0.00
91 SD-80A	8.56	13.76	5.20	8.56	0.00	13.76	0.00	0.00	0.00
92 SD-81	3.95	10.41	6.46	3.95	0.00	10.41	0.00	0.00	0.00
93 SD-9	0.18	10.03	9.85	0.18	0.00	10.03	0.00	0.00	0.00
94 SD-91	4.00	11.26	7.26	4.00	0.00	11.26	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
88 SD-79A	7.16	2.27	13.42	6.40	0.00	0.97	8.94	1.92	0 11:30	0 00:00	0.00	0.00
89 SD-8	3.19	0.00	7.67	6.75	0.00	2.13	1.82	0.90	0 11:15	0 00:00	0.00	0.00
90 SD-80	3.39	3.39	13.86	4.40	0.00	0.00	9.86	0.40	0 11:10	0 11:10	0.00	0.00
91 SD-80A	17.25	17.25	13.76	5.20	0.00	0.00	10.19	1.63	0 11:02	0 11:30	9.69	123.00
92 SD-81	0.73	0.73	8.80	4.85	0.00	1.60	4.65	0.70	0 11:29	0 00:00	0.00	0.00
93 SD-9	3.49	0.04	6.32	6.14	0.00	3.71	0.78	0.60	0 11:15	0 00:00	0.00	0.00
94 SD-91	0.97	0.97	4.46	0.46	0.00	6.80	4.21	0.21	0 11:30	0 00:00	0.00	0.00

Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate
89 Pipe - (94)	230.06	1.57	0.00	0.29	0.00	1.29	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
90 Pipe - (95)	36.83	0.29	0.00	0.08	0.00	0.21	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
91 Pipe - (96)	77.73	5.96	0.00	5.25	0.00	0.71	0.9100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
92 Pipe - (97)	146.12	3.95	0.00	3.15	0.00	0.80	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
93 Pipe - (98)	63.81	3.15	0.00	2.80	0.00	0.35	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No

No. of
Barrels

1
1
1
1
1

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1	OUTFALL-PIPE	49.51	0 11:33	32.09	1.54	10.23	0.23	2.40	0.96	0.00	0.95	> CAPACITY
2	Pipe - (102)	6.07	0 11:26	10.67	0.57	2.53	0.54	1.75	1.00	46.00	0.27	SURCHARGED
3	Pipe - (103)	6.04	0 11:27	12.77	0.47	3.20	0.05	1.75	1.00	46.00	0.73	SURCHARGED
4	Pipe - (104)	6.18	0 11:27	12.95	0.48	3.89	0.16	1.75	1.00	46.00	0.91	SURCHARGED
5	Pipe - (105)	6.78	0 11:27	12.95	0.52	3.64	0.59	1.75	1.00	49.00	0.82	SURCHARGED
6	Pipe - (106)	6.77	0 11:27	8.33	0.81	2.93	0.82	1.75	1.00	59.00	0.61	SURCHARGED
7	Pipe - (107)	7.84	0 11:29	8.30	0.94	3.26	1.16	1.75	1.00	63.00	0.62	SURCHARGED
8	Pipe - (108)	7.84	0 11:29	8.75	0.90	3.26	0.32	1.75	1.00	69.00	0.62	SURCHARGED
9	Pipe - (109)	8.46	0 11:29	8.71	0.97	3.52	1.16	1.75	1.00	70.00	0.62	SURCHARGED
10	Pipe - (110)	8.81	0 11:29	8.84	1.00	3.66	0.26	1.75	1.00	79.00	0.59	SURCHARGED
11	Pipe - (135)	12.96	0 11:36	23.79	0.54	2.64	2.38	2.50	1.00	63.00	0.43	SURCHARGED
12	Pipe - (136)	0.96	0 11:30	5.25	0.18	2.76	1.69	0.37	0.25	0.00	0.81	Calculated
13	Pipe - (137)	0.95	0 11:31	11.82	0.08	2.02	0.91	0.47	0.31	0.00	0.62	Calculated
14	Pipe - (138)	2.09	0 11:30	9.46	0.22	2.71	0.35	0.66	0.38	0.00	0.72	Calculated
15	Pipe - (139)	2.39	0 11:31	9.51	0.25	2.75	1.36	1.06	0.61	0.00	0.73	Calculated
16	Pipe - (140)	2.68	0 11:39	9.51	0.28	2.60	0.41	1.52	0.88	0.00	0.69	Calculated
17	Pipe - (141)	2.82	0 11:40	8.07	0.35	2.64	0.63	1.69	0.97	0.00	0.65	Calculated
18	Pipe - (142)	3.23	0 11:41	8.08	0.40	2.45	1.49	1.75	1.00	6.00	0.62	SURCHARGED
19	Pipe - (143)	3.67	0 11:44	8.08	0.45	2.38	0.67	1.75	1.00	14.00	0.58	SURCHARGED
20	Pipe - (144)	3.83	0 11:43	10.12	0.38	2.11	0.52	2.00	1.00	13.00	0.49	SURCHARGED
21	Pipe - (145)	4.09	0 11:43	10.12	0.40	2.22	1.62	2.00	1.00	14.00	0.51	SURCHARGED
22	Pipe - (146)	4.24	0 11:47	10.12	0.42	2.43	0.70	2.00	1.00	19.00	0.55	SURCHARGED
23	Pipe - (147)	4.26	0 11:45	13.57	0.31	2.91	0.33	2.00	1.00	21.00	0.71	SURCHARGED
24	Pipe - (148)	4.44	0 11:45	13.57	0.33	2.74	1.30	2.00	1.00	27.00	0.72	SURCHARGED
25	Pipe - (149)	4.58	0 11:45	13.79	0.33	2.24	0.50	2.00	1.00	59.00	0.56	SURCHARGED
26	Pipe - (150)	4.60	0 11:45	13.85	0.33	1.82	0.95	2.25	1.00	59.00	0.45	SURCHARGED
27	Pipe - (151)	4.79	0 11:45	13.85	0.35	1.65	2.18	2.25	1.00	61.00	0.40	SURCHARGED
28	Pipe - (152)	5.10	0 11:45	13.85	0.37	1.58	0.93	2.25	1.00	67.00	0.32	SURCHARGED
29	Pipe - (28)	2.16	0 11:30	12.13	0.18	9.42	0.16	0.33	0.33	0.00	3.39	Calculated
30	Pipe - (29)	3.11	0 11:30	12.13	0.26	11.94	0.09	0.37	0.37	0.00	4.07	Calculated
31	Pipe - (30)	3.15	0 11:30	12.13	0.26	5.59	0.59	0.67	0.67	0.00	1.90	Calculated
32	Pipe - (32)	4.68	0 11:40	7.96	0.59	7.02	0.09	1.00	1.00	70.00	1.81	SURCHARGED
33	Pipe - (33)	4.76	0 11:30	6.68	0.71	3.88	0.58	1.25	1.00	76.00	0.85	SURCHARGED
34	Pipe - (34)	5.13	0 11:11	4.14	1.24	4.18	0.61	1.25	1.00	87.00	0.42	SURCHARGED
35	Pipe - (35)	5.97	0 11:11	2.91	2.05	4.87	0.10	1.25	1.00	82.00	0.51	SURCHARGED
36	Pipe - (36)	7.01	0 11:12	7.87	0.89	3.97	0.94	1.50	1.00	79.00	0.81	SURCHARGED
37	Pipe - (37)	7.50	0 11:12	7.91	0.95	4.24	0.33	1.50	1.00	88.00	0.63	SURCHARGED
38	Pipe - (38)	7.66	0 11:12	8.79	0.87	3.19	0.22	1.75	1.00	86.00	0.54	SURCHARGED
39	Pipe - (39)	7.97	0 11:18	9.11	0.88	3.32	0.55	1.75	1.00	87.00	0.56	SURCHARGED
40	Pipe - (40)	6.31	0 11:02	7.43	0.85	3.57	1.44	1.50	1.00	218.00	0.53	SURCHARGED
41	Pipe - (41)	7.16	0 11:02	5.89	1.21	4.05	0.65	1.50	1.00	242.00	0.53	SURCHARGED
42	Pipe - (44)	7.77	0 11:02	8.20	0.95	4.40	0.14	1.50	1.00	265.00	0.53	SURCHARGED
43	Pipe - (45)	7.80	0 11:02	7.43	1.05	4.41	0.67	1.50	1.00	265.00	0.56	SURCHARGED
44	Pipe - (46)	7.99	0 11:02	7.38	1.08	4.52	0.51	1.50	1.00	280.00	0.55	SURCHARGED
45	Pipe - (47)	8.16	0 11:02	7.42	1.10	4.62	0.53	1.50	1.00	289.00	0.46	SURCHARGED
46	Pipe - (48)	8.29	0 11:02	7.57	1.10	4.69	0.10	1.50	1.00	288.00	0.39	SURCHARGED
47	Pipe - (51)	8.66	0 11:03	10.39	0.83	2.76	0.92	2.00	1.00	209.00	0.37	SURCHARGED
48	Pipe - (52)	9.74	0 11:18	10.51	0.93	3.10	0.85	2.00	1.00	214.00	0.33	SURCHARGED
49	Pipe - (53)	3.39	0 11:29	4.35	0.78	4.31	0.73	1.00	1.00	69.00	0.96	SURCHARGED
50	Pipe - (54)	3.57	0 11:11	4.34	0.82	5.10	0.37	1.00	1.00	89.00	1.20	SURCHARGED
51	Pipe - (55)	3.85	0 11:11	4.35	0.89	4.90	0.57	1.00	1.00	197.00	0.68	SURCHARGED
52	Pipe - (56)	4.29	0 11:11	4.31	1.00	5.46	0.07	1.00	1.00	388.00	0.19	SURCHARGED
53	Pipe - (57)	13.85	0 11:15	11.46	1.21	4.41	0.37	2.00	1.00	205.00	0.41	SURCHARGED
54	Pipe - (58)	13.85	0 11:15	11.48	1.21	4.41	0.48	2.00	1.00	200.00	0.44	SURCHARGED
55	Pipe - (59)	13.84	0 11:15	11.47	1.21	4.41	0.72	2.00	1.00	129.00	0.52	SURCHARGED
56	Pipe - (60)	13.85	0 11:15	11.64	1.19	5.42	0.17	2.00	1.00	83.00	0.96	SURCHARGED
57	Pipe - (61)	13.85	0 11:15	45.50	0.30	4.41	0.11	2.00	1.00	83.00	0.61	SURCHARGED
58	Pipe - (62)	25.76	0 11:18	13.85	1.86	6.48	0.37	2.25	1.00	68.00	0.60	SURCHARGED
59	Pipe - (63)	28.52	0 11:29	29.26	0.97	5.81	0.64	2.50	1.00	53.00	0.80	SURCHARGED
60	Pipe - (64)	31.94	0 11:29	127.62	0.25	5.61	0.23	2.82	0.95	0.00	0.19	Calculated
61	Pipe - (65)	18.48	0 11:35	29.83	0.62	2.61	0.38	3.00	1.00	93.00	0.98	SURCHARGED
62	Pipe - (66)	9.70	0 11:18	10.29	0.94	4.03	0.30	1.75	1.00	136.00	0.59	SURCHARGED
63	Pipe - (66) (1)	10.11	0 11:25	10.29	0.98	4.20	1.14	1.75	1.00	175.00	0.26	SURCHARGED
64	Pipe - (67)	9.42	0 11:18	9.00	1.05	3.91	0.77	1.75	1.00	91.00	0.58	SURCHARGED
65	Pipe - (68)	7.78	0 11:02	8.12	0.96	4.40	0.66	1.50	1.00	242.00	0.58	SURCHARGED
66	Pipe - (69)	32.15	0 11:29	29.20	1.10	8.62	0.27	2.50	1.00	9.00	1.42	SURCHARGED
67	Pipe - (71)	18.47	0 11:35	23.65	0.78	3.11	1.37	2.75	1.00	98.00	0.23	SURCHARGED
68	Pipe - (73)	3.19	0 11:15	1.91	1.67	4.07	0.16	1.00	1.00	206.00	0.38	SURCHARGED
69	Pipe - (74)	2.99	0 11:15	1.95	1.53	3.80	1.00	1.00	1.00	180.00	0.43	SURCHARGED
70	Pipe - (75)	2.21	0 11:15	1.98	1.12	2.82	0.25	1.00	1.00	168.00	0.40	SURCHARGED
71	Pipe - (76)	2.78	0 11:15	1.94	1.43	3.53	0.32	1.00	1.00	175.00	0.47	SURCHARGED
72	Pipe - (77)	2.84	0 11:30	1.92	1.48	3.62	0.19	1.00	1.00	83.00	0.52	SURCHARGED
73	Pipe - (78)	2.05	0 11:21	1.95	1.05	2.61	1.30	1.00	1.00	85.00	0.49	SURCHARGED
74	Pipe - (79)	3.19	0 11:15	1.74	1.83	4.06	0.45	1.00	1.00	200.00	0.38	SURCHARGED
75	Pipe - (80)	3.32	0 11:15	1.74	1.91	4.23	0.28	1.00	1.00	88.00	0.42	SURCHARGED
76	Pipe - (81)	3.46	0 11:15	1.76	1.97	4.40	0.48	1.00	1.00	72.00	0.59	SURCHARGED
77	Pipe - (82)	3.38	0 11:16	3.82	0.88	3.30	1.41	1.25	1.00	68.00	0.74	SURCHARGED
78	Pipe - (83)	4.48	0 11:21	5.87	0.76	4.42	0.41	1.25	1.00	76.00	1.02	SURCHARGED
79	Pipe - (84)	4.92	0 11:29	5.85	0.84	4.01	1.02	1.25	1.00	86.00	0.81	SURCHARGED
80	Pipe - (85)	5.54	0 11:30	5.93	0.93	4.52	0.18	1.25	1.00	243.00	0.34	SURCHARGED
81	Pipe - (86)	18.45	0 11:35	23.65	0.78	3.11	0.27	2.75	1.00	84.00	0.45	SURCHARGED
82	Pipe - (87)	18.46	0 11:35	23.65	0.78	3.11	1.69	2.75	1.00	84.00	0.37	SURCHARGED
83	Pipe - (88)	3.81	0 11:26	5.08	0.75	3.62	1.10	1.25	1.00	16.00	0.90	SURCHARGED
84	Pipe - (89)	4.43	0 11:26	5.12	0.87	3.61	0.37	1.25	1.00	21.00	0.85	SURCHARGED
85	Pipe - (90)	4.43	0 11:26	4.94	0.90	3.61	0.19	1.25	1.00	23.00	0.81	SURCHARGED
86	Pipe - (91)	5.32	0 11:26	4.91	1.08	4.33	0.89	1.25	1.00	24.00	0.82	SURCHARGED
87	Pipe - (92)	5.64	0 11:26	4.88	1.16	4.60	0.11	1.25	1.00	43.00	0.83	SURCHARGED

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
88 Pipe - (93)	5.63	0 11:26	7.82	0.72	3.94	0.33	1.50	1.00	22.00	0.90	SURCHARGED
89 Pipe - (94)	6.02	0 11:26	7.85	0.77	3.41	1.12	1.50	1.00	43.00	0.45	SURCHARGED
90 Pipe - (95)	6.13	0 11:26	7.84	0.78	3.47	0.18	1.50	1.00	66.00	0.20	SURCHARGED
91 Pipe - (96)	0.21	0 10:50	10.04	0.02	0.80	1.62	1.50	1.00	216.00	0.01	SURCHARGED
92 Pipe - (97)	0.73	0 11:30	2.64	0.28	1.23	1.98	1.00	1.00	203.00	0.18	SURCHARGED
93 Pipe - (98)	0.73	0 11:30	2.64	0.28	0.93	1.14	1.00	1.00	314.00	0.03	SURCHARGED

Adams Street 100-year Flow SWMM Modeling Report (Including Outside)

Project Description

File Name ADAMS STREET PUMP STATION BASIN - INCLUDING THE PORTIONS OUTSIDE LEVEE_EX 100 YEAR

Project Options

Flow Units CFS
Elevation Type Elevation
Hydrology Method EPA SWMM
EPA SWMM Infiltration Method SCS Curve Number
Link Routing Method Hydrodynamic
Enable Overflow Ponding at Nodes YES
Skip Steady State Analysis Time Periods NO

Analysis Options

Start Analysis On Dec 22, 1961 06:30:00
End Analysis On Dec 23, 1961 06:30:00
Start Reporting On Dec 22, 1961 06:30:00
Antecedent Dry Days 0 days
Runoff (Dry Weather) Time Step 0 01:00:00 days hh:mm:ss
Runoff (Wet Weather) Time Step 0 00:05:00 days hh:mm:ss
Reporting Time Step 0 00:05:00 days hh:mm:ss
Routing Time Step 5 seconds

Number of Elements

	Qty
Rain Gages	0
Subbasins.....	0
Nodes.....	103
<i>Junctions</i>	102
<i>Outfalls</i>	1
<i>Flow Diversions</i>	0
<i>Inlets</i>	0
<i>Storage Nodes</i>	0
Links.....	101
<i>Channels</i>	0
<i>Pipes</i>	101
<i>Pumps</i>	0
<i>Orifices</i>	0
<i>Weirs</i>	0
<i>Outlets</i>	0
Pollutants	0
Land Uses	0

: FLOW.SPF

Node Summary

SN Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft ²)	Peak Inflow (cfs)	Max HGL Elevation (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-in)	Total Time Flooded (min)
88 SD-78	Junction	0.92	9.79	0.92	9.79	0.00	13.47	7.27	0.00	2.52	0 00:00	0.00	0.00
89 SD-78A	Junction	6.52	14.61	6.52	14.61	0.00	7.77	12.78	0.00	1.83	0 00:00	0.00	0.00
90 SD-79	Junction	2.14	10.86	2.14	10.86	0.00	13.46	8.96	0.00	1.89	0 00:00	0.00	0.00
91 SD-79A	Junction	7.02	14.39	7.02	14.39	0.00	7.15	13.40	0.00	1.00	0 00:00	0.00	0.00
92 SD-8	Junction	0.92	9.79	0.92	9.79	0.00	2.68	8.26	0.00	1.53	0 00:00	0.00	0.00
93 SD-80	Junction	9.46	13.86	9.46	13.86	0.00	3.39	13.86	0.00	0.00	0 11:10	0.00	0.00
94 SD-80A	Junction	8.56	13.76	8.56	13.76	0.00	17.25	13.76	0.00	0.00	0 11:30	9.86	123.00
95 SD-81	Junction	3.95	10.41	3.95	10.41	0.00	0.73	9.49	0.00	0.91	0 00:00	0.00	0.00
96 SD-85	Junction	4.05	13.21	4.05	13.21	0.00	13.05	12.53	0.00	0.68	0 00:00	0.00	0.00
97 SD-86	Junction	5.78	13.40	5.78	13.40	0.00	9.87	13.05	0.00	0.35	0 00:00	0.00	0.00
98 SD-87	Junction	6.85	13.68	6.85	13.68	0.00	7.67	13.54	0.00	0.14	0 00:00	0.00	0.00
99 SD-88	Junction	7.87	14.19	7.87	14.19	0.00	5.03	14.19	0.00	0.00	0 11:14	0.00	0.00
100 SD-89	Junction	10.58	13.63	10.58	13.63	0.00	5.12	13.63	0.00	0.00	0 11:30	1.51	47.00
101 SD-9	Junction	0.18	10.03	0.18	10.03	0.00	2.94	8.55	0.00	1.47	0 00:00	0.00	0.00
102 SD-91	Junction	4.00	11.26	4.00	11.26	0.00	5.27	11.26	0.00	0.00	0 11:30	3.99	69.00
103 DUMMY-MH	Outfall	-6.00					65.19	-3.50					

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Average Slope (%)	Diameter or Height (in)	Manning's Roughness	Peak Flow (cfs)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Reported Surcharged (min)	Reported Condition
57	Pipe - (54)	Pipe	NODE-18	NODE-19	112.97	6.65	4.97	1.4900	12.000	0.0130	3.52	4.34	0.81	5.10	1.00	1.00	90.00	SURCHARGED
58	Pipe - (55)	Pipe	NODE-19	NODE-20	166.50	4.97	2.49	1.4900	12.000	0.0130	3.44	4.35	0.79	4.38	1.00	1.00	197.00	SURCHARGED
59	Pipe - (56)	Pipe	NODE-20	SD-79	23.93	2.49	2.14	1.4600	12.000	0.0130	3.88	4.31	0.90	4.94	1.00	1.00	388.00	SURCHARGED
60	Pipe - (57)	Pipe	SD-79	NODE-18B	97.50	2.14	1.89	0.2600	24.000	0.0130	13.47	11.46	1.18	4.29	2.00	1.00	205.00	SURCHARGED
61	Pipe - (58)	Pipe	NODE-18B	NODE-19B	128.08	1.89	1.56	0.2600	24.000	0.0130	13.47	11.48	1.17	4.29	2.00	1.00	200.00	SURCHARGED
62	Pipe - (59)	Pipe	NODE-19B	NODE-20B	190.61	1.56	1.07	0.2600	24.000	0.0130	13.46	11.47	1.17	4.29	2.00	1.00	133.00	SURCHARGED
63	Pipe - (60)	Pipe	NODE-20B	SD-78	56.62	1.07	0.92	0.2600	24.000	0.0130	13.47	11.64	1.16	5.42	2.00	1.00	89.00	SURCHARGED
64	Pipe - (61)	Pipe	SD-78	SD-77	28.68	0.92	-0.24	4.0400	24.000	0.0130	13.51	45.50	0.30	4.30	2.00	1.00	89.00	SURCHARGED
65	Pipe - (62)	Pipe	SD-77	SD-76	144.33	-0.24	-0.48	0.1700	27.000	0.0130	23.66	13.85	1.71	5.95	2.25	1.00	85.00	SURCHARGED
66	Pipe - (63)	Pipe	SD-76	NODE-22	223.98	-0.48	-1.62	0.5100	30.000	0.0130	25.43	29.26	0.87	5.26	2.50	1.00	81.00	SURCHARGED
67	Pipe - (64)	Pipe	SD-74	PS	77.02	-2.32	-5.14	3.6600	36.000	0.0130	42.46	127.62	0.33	6.01	3.00	1.00	76.00	SURCHARGED
68	Pipe - (65)	Pipe	SD-73	PS	59.39	-5.14	-5.14	0.0000	36.000	0.0130	22.95	29.83	0.77	3.25	3.00	1.00	290.00	SURCHARGED
69	Pipe - (66)	Pipe	SD-10	NODE-21	73.71	1.28	0.97	0.4200	21.000	0.0130	8.88	10.29	0.86	3.69	1.75	1.00	139.00	SURCHARGED
70	Pipe - (66) (1)	Pipe	NODE-21	SD-77	286.95	0.97	-0.24	0.4200	21.000	0.0130	9.18	10.29	0.89	3.81	1.75	1.00	178.00	SURCHARGED
71	Pipe - (67)	Pipe	NODE-5	SD-10	179.84	1.86	1.28	0.3200	21.000	0.0130	8.65	9.00	0.96	3.60	1.75	1.00	93.00	SURCHARGED
72	Pipe - (68)	Pipe	SD-78A	SD-76B	173.98	6.52	5.48	0.6000	18.000	0.0130	7.77	8.12	0.96	4.40	1.50	1.00	242.00	SURCHARGED
73	Pipe - (69)	Pipe	NODE-22	SD-74	138.16	-1.62	-2.32	0.5100	30.000	0.0130	27.73	29.20	0.95	7.58	2.50	1.00	84.00	SURCHARGED
74	Pipe - (70)	Pipe	MH-B	SD-74	232.06	7.75	-2.32	4.3400	15.000	0.0130	9.33	13.46	0.69	7.81	1.17	0.94	0.00	Calculated
75	Pipe - (71)	Pipe	SD-72	SD-73	255.30	-4.83	-5.14	0.1200	33.000	0.0130	22.92	23.65	0.97	3.86	2.75	1.00	309.00	SURCHARGED
76	Pipe - (73)	Pipe	NODE-15B	SD-8	38.10	1.03	0.92	0.2900	12.000	0.0130	2.68	1.91	1.40	3.42	1.00	1.00	208.00	SURCHARGED
77	Pipe - (74)	Pipe	NODE-15A	NODE-15B	226.88	1.71	1.03	0.3000	12.000	0.0130	2.50	1.95	1.28	3.19	1.00	1.00	202.00	SURCHARGED
78	Pipe - (75)	Pipe	NODE-13	NODE-14	41.97	2.04	1.91	0.3100	12.000	0.0130	1.84	1.98	0.93	2.34	1.00	1.00	200.00	SURCHARGED
79	Pipe - (76)	Pipe	NODE-14	NODE-15A	67.54	1.91	1.71	0.3000	12.000	0.0130	2.32	1.94	1.20	2.95	1.00	1.00	201.00	SURCHARGED
80	Pipe - (77)	Pipe	NODE-11	NODE-12	41.35	2.77	2.65	0.2900	12.000	0.0130	2.84	1.92	1.48	3.61	1.00	1.00	130.00	SURCHARGED
81	Pipe - (78)	Pipe	NODE-12	NODE-13	204.16	2.65	2.04	0.3000	12.000	0.0130	2.05	1.95	1.05	2.61	1.00	1.00	138.00	SURCHARGED
82	Pipe - (79)	Pipe	SD-8	NODE-16A	108.51	0.92	0.66	0.2400	12.000	0.0130	2.69	1.74	1.54	3.43	1.00	1.00	203.00	SURCHARGED
83	Pipe - (80)	Pipe	NODE-16A	NODE-16B	71.40	0.66	0.49	0.2400	12.000	0.0130	2.80	1.74	1.61	3.57	1.00	1.00	197.00	SURCHARGED
84	Pipe - (81)	Pipe	NODE-16B	SD-9	127.30	0.49	0.18	0.2400	12.000	0.0130	2.92	1.76	1.66	3.71	1.00	1.00	166.00	SURCHARGED
85	Pipe - (82)	Pipe	SD-9	SD-60	279.82	0.18	-0.80	0.3500	15.000	0.0130	2.94	3.82	0.77	3.09	1.25	1.00	118.00	SURCHARGED
86	Pipe - (83)	Pipe	SD-60	NODE 25	109.17	-0.80	-1.70	0.8200	15.000	0.0130	3.85	5.87	0.66	3.96	1.25	1.00	203.00	SURCHARGED
87	Pipe - (84)	Pipe	NODE 25	NODE-24	245.49	-1.70	-3.71	0.8200	15.000	0.0130	4.13	5.85	0.71	3.36	1.25	1.00	238.00	SURCHARGED
88	Pipe - (85)	Pipe	NODE-24	SD-70	48.58	-3.71	-4.12	0.8400	15.000	0.0130	4.62	5.93	0.78	3.76	1.25	1.00	355.00	SURCHARGED
89	Pipe - (86)	Pipe	SD-70	NODE-23	51.28	-4.12	-4.22	0.1900	33.000	0.0130	22.88	23.65	0.97	3.85	2.75	1.00	277.00	SURCHARGED
90	Pipe - (87)	Pipe	NODE-23	SD-72	316.28	-4.22	-4.83	0.1900	33.000	0.0130	22.91	23.65	0.97	3.86	2.75	1.00	277.00	SURCHARGED
91	Pipe - (88)	Pipe	CBSD-22	NODE-6	239.33	5.74	4.26	0.6200	15.000	0.0130	3.39	5.08	0.67	3.55	1.25	1.00	63.00	SURCHARGED
92	Pipe - (89)	Pipe	NODE-6	SD-15	79.46	4.26	3.76	0.6300	15.000	0.0130	3.43	5.12	0.67	3.35	1.25	1.00	71.00	SURCHARGED
93	Pipe - (90)	Pipe	SD-15	NODE-7	41.00	3.76	3.52	0.5900	15.000	0.0130	3.44	4.94	0.70	3.37	1.25	1.00	74.00	SURCHARGED
94	Pipe - (91)	Pipe	NODE-7	NODE-8	232.34	3.52	2.18	0.5800	15.000	0.0130	4.13	4.91	0.84	3.59	1.25	1.00	75.00	SURCHARGED
95	Pipe - (92)	Pipe	NODE-8	SD-7	31.53	2.18	2.00	0.5700	15.000	0.0130	4.38	4.88	0.90	3.64	1.25	1.00	81.00	SURCHARGED
96	Pipe - (93)	Pipe	SD-7	NODE-9	77.64	2.00	1.57	0.5500	18.000	0.0130	4.35	7.82	0.56	3.75	1.50	1.00	80.00	SURCHARGED
97	Pipe - (94)	Pipe	NODE-9	NODE-10	230.06	1.57	0.29	0.5600	18.000	0.0130	4.65	7.85	0.59	2.65	1.50	1.00	82.00	SURCHARGED
98	Pipe - (95)	Pipe	NODE-10	SD-12	36.83	0.29	0.08	0.5600	18.000	0.0130	4.73	7.84	0.60	2.67	1.50	1.00	96.00	SURCHARGED
99	Pipe - (96)	Pipe	SD-77A	SD-76A	77.73	5.96	5.25	0.9100	18.000	0.0130	0.21	10.04	0.02	0.80	1.50	1.00	216.00	SURCHARGED
100	Pipe - (97)	Pipe	SD-81	NODE-5B	146.12	3.95	3.15	0.5500	12.000	0.0130	0.73	2.64	0.28	1.23	1.00	1.00	203.00	SURCHARGED
101	Pipe - (98)	Pipe	NODE-5B	SD-75	63.81	3.15	2.80	0.5500	12.000	0.0130	0.72	2.64	0.27	0.92	1.00	1.00	314.00	SURCHARGED

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
1	CBSD-22	5.74	10.00	4.26	5.74	0.00	10.00	0.00	0.00	0.00
2	CBSD-29	48.55	50.00	1.45	48.55	0.00	50.00	0.00	0.00	0.00
3	MH-B	7.75	13.72	5.97	7.75	0.00	13.72	0.00	0.00	0.00
4	NODE 25	-1.70	9.81	11.51	-1.70	0.00	9.81	0.00	0.00	0.00
5	NODE-1	38.31	48.68	10.37	38.31	0.00	48.68	0.00	0.00	0.00
6	NODE-10	0.29	9.84	9.55	0.29	0.00	9.84	0.00	0.00	0.00
7	NODE-11	2.77	10.15	7.38	2.77	0.00	10.15	0.00	0.00	0.00
8	NODE-12	2.65	9.62	6.97	2.65	0.00	9.62	0.00	0.00	0.00
9	NODE-13	2.04	8.84	6.80	2.04	0.00	8.84	0.00	0.00	0.00
10	NODE-14	1.91	9.08	7.17	1.91	0.00	9.08	0.00	0.00	0.00
11	NODE-15A	1.71	8.89	7.18	1.71	0.00	8.89	0.00	0.00	0.00
12	NODE-15B	1.03	9.35	8.32	1.03	0.00	9.35	0.00	0.00	0.00
13	NODE-16A	0.66	9.43	8.77	0.66	0.00	9.43	0.00	0.00	0.00
14	NODE-16B	0.49	9.59	9.10	0.49	0.00	9.59	0.00	0.00	0.00
15	NODE-17	2.48	10.06	7.58	2.48	0.00	10.06	0.00	0.00	0.00
16	NODE-18	6.65	11.32	4.67	6.65	0.00	11.32	0.00	0.00	0.00
17	NODE-18A	4.36	10.18	5.82	4.36	0.00	10.18	0.00	0.00	0.00
18	NODE-18B	1.89	9.97	8.08	1.89	0.00	9.97	0.00	0.00	0.00
19	NODE-19	4.97	9.90	4.93	4.97	0.00	9.90	0.00	0.00	0.00
20	NODE-19A	3.68	10.37	6.69	3.68	0.00	10.37	0.00	0.00	0.00
21	NODE-19B	1.56	9.83	8.27	1.56	0.00	9.83	0.00	0.00	0.00
22	NODE-2	31.09	35.59	4.50	31.09	0.00	35.59	0.00	0.00	0.00
23	NODE-20	2.49	10.63	8.14	2.49	0.00	10.63	0.00	0.00	0.00
24	NODE-20A	2.95	10.14	7.19	2.95	0.00	10.14	0.00	0.00	0.00
25	NODE-20B	1.07	9.83	8.76	1.07	0.00	9.83	0.00	0.00	0.00
26	NODE-21	0.97	9.77	8.80	0.97	0.00	9.77	0.00	0.00	0.00
27	NODE-22	-1.62	10.38	12.00	-1.62	0.00	10.38	0.00	0.00	0.00
28	NODE-23	-4.22	9.30	13.52	-4.22	0.00	9.30	0.00	0.00	0.00
29	NODE-24	-3.71	9.77	13.48	-3.71	0.00	9.77	0.00	0.00	0.00
30	NODE-26	0.39	10.11	9.73	0.39	0.00	10.11	0.00	0.00	0.00
31	NODE-27	0.14	10.05	9.91	0.14	0.00	10.05	0.00	0.00	0.00
32	NODE-28	-1.12	9.32	10.44	-1.12	0.00	9.32	0.00	0.00	0.00
33	NODE-29	-1.93	9.67	11.60	-1.93	0.00	9.67	0.00	0.00	0.00
34	NODE-3	2.82	9.76	6.94	2.82	0.00	9.76	0.00	0.00	0.00
35	NODE-30	-2.67	9.60	12.27	-2.67	0.00	9.60	0.00	0.00	0.00
36	NODE-31	-2.73	10.23	12.96	-2.73	0.00	10.23	0.00	0.00	0.00
37	NODE-32	-2.43	10.40	12.83	-2.43	0.00	10.40	0.00	0.00	0.00
38	NODE-33	-2.03	10.06	12.09	-2.03	0.00	10.06	0.00	0.00	0.00
39	NODE-34	-1.26	10.05	11.31	-1.26	0.00	10.05	0.00	0.00	0.00
40	NODE-35	-0.90	10.33	11.23	-0.90	0.00	10.33	0.00	0.00	0.00
41	NODE-36	-0.53	10.61	11.14	-0.53	0.00	10.61	0.00	0.00	0.00
42	NODE-37	-0.17	10.74	10.91	-0.17	0.00	10.74	0.00	0.00	0.00
43	NODE-38	0.40	11.28	10.88	0.40	0.00	11.28	0.00	0.00	0.00
44	NODE-39	0.89	11.70	10.81	0.89	0.00	11.70	0.00	0.00	0.00
45	NODE-4	2.22	9.84	7.62	2.22	0.00	9.84	0.00	0.00	0.00
46	NODE-40	1.70	11.81	10.11	1.70	0.00	11.81	0.00	0.00	0.00
47	NODE-41	4.97	13.46	8.49	4.97	0.00	13.46	0.00	0.00	0.00
48	NODE-42	9.44	13.88	4.44	9.44	0.00	13.88	0.00	0.00	0.00
49	NODE-5	1.86	10.79	8.93	1.86	0.00	10.79	0.00	0.00	0.00
50	NODE-5B	3.15	10.17	7.02	3.15	0.00	10.17	0.00	0.00	0.00
51	NODE-6	4.26	9.22	4.96	4.26	0.00	9.22	0.00	0.00	0.00
52	NODE-7	3.52	8.86	5.34	3.52	0.00	8.86	0.00	0.00	0.00
53	NODE-8	2.18	9.00	6.82	2.18	0.00	9.00	0.00	0.00	0.00
54	NODE-9	1.57	9.02	7.45	1.57	0.00	9.02	0.00	0.00	0.00
55	Out-1Pipe - (71)	-5.14	0.86	6.00	-5.14	0.00	0.86	0.00	0.00	0.00
56	PS	-5.14	11.64	16.78	-5.14	0.00	11.64	0.00	0.00	0.00
57	SD-10	1.28	10.14	8.86	1.28	0.00	10.14	0.00	0.00	0.00
58	SD-11	2.35	9.85	7.50	2.35	0.00	9.85	0.00	0.00	0.00
59	SD-12	0.08	10.68	10.60	0.08	0.00	10.68	0.00	0.00	0.00
60	SD-15	3.76	9.27	5.51	3.76	0.00	9.27	0.00	0.00	0.00
61	SD-17	4.08	9.88	5.80	4.08	0.00	9.88	0.00	0.00	0.00
62	SD-18	4.02	9.91	5.89	4.02	0.00	9.91	0.00	0.00	0.00
63	SD-26	4.65	10.68	6.03	4.65	0.00	10.68	0.00	0.00	0.00
64	SD-27	6.08	12.02	5.94	6.08	0.00	12.02	0.00	0.00	0.00
65	SD-28	7.98	12.84	4.86	7.98	0.00	12.84	0.00	0.00	0.00
66	SD-56	-0.72	10.13	10.85	-0.72	0.00	10.13	0.00	0.00	0.00
67	SD-57	0.45	9.84	9.39	0.45	0.00	9.84	0.00	0.00	0.00
68	SD-58	-1.74	10.27	12.01	-1.74	0.00	10.27	0.00	0.00	0.00
69	SD-60	-0.80	10.18	10.98	-0.80	0.00	10.18	0.00	0.00	0.00
70	SD-63	1.90	12.10	10.20	1.90	0.00	12.10	0.00	0.00	0.00
71	SD-65	0.66	11.90	11.24	0.66	0.00	11.90	0.00	0.00	0.00
72	SD-66	-0.42	10.85	11.27	-0.42	0.00	10.85	0.00	0.00	0.00
73	SD-67	-1.05	10.00	11.05	-1.05	0.00	10.00	0.00	0.00	0.00
74	SD-68	-2.28	10.35	12.63	-2.28	0.00	10.35	0.00	0.00	0.00
75	SD-69	-2.85	10.34	13.19	-2.85	0.00	10.34	0.00	0.00	0.00
76	SD-7	2.00	9.48	7.48	2.00	0.00	9.48	0.00	0.00	0.00
77	SD-70	-4.12	10.20	14.32	-4.12	0.00	10.20	0.00	0.00	0.00
78	SD-71	3.30	12.56	9.26	3.30	0.00	12.56	0.00	0.00	0.00
79	SD-72	-4.83	9.83	14.66	-4.83	0.00	9.83	0.00	0.00	0.00
80	SD-73	-5.14	10.72	15.86	-5.14	0.00	10.72	0.00	0.00	0.00
81	SD-74	-2.32	11.35	13.67	-2.32	0.00	11.35	0.00	0.00	0.00
82	SD-75	2.80	10.22	7.42	2.80	0.00	10.22	0.00	0.00	0.00
83	SD-76	-0.48	9.34	9.82	-0.48	0.00	9.34	0.00	0.00	0.00
84	SD-76A	5.25	12.28	7.03	5.25	0.00	12.28	0.00	0.00	0.00
85	SD-76B	5.48	14.93	9.45	5.48	0.00	14.93	0.00	0.00	0.00
86	SD-77	-0.24	9.76	10.00	-0.24	0.00	9.76	0.00	0.00	0.00
87	SD-77A	5.96	12.94	6.98	5.96	0.00	12.94	0.00	0.00	0.00
88	SD-78	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00

Junction Input

SN Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (in)
89 SD-78A	6.52	14.61	8.09	6.52	0.00	14.61	0.00	0.00	0.00
90 SD-79	2.14	10.86	8.72	2.14	0.00	10.86	0.00	0.00	0.00
91 SD-79A	7.02	14.39	7.37	7.02	0.00	14.39	0.00	0.00	0.00
92 SD-8	0.92	9.79	8.87	0.92	0.00	9.79	0.00	0.00	0.00
93 SD-80	9.46	13.86	4.40	9.46	0.00	13.86	0.00	0.00	0.00
94 SD-80A	8.56	13.76	5.20	8.56	0.00	13.76	0.00	0.00	0.00
95 SD-81	3.95	10.41	6.46	3.95	0.00	10.41	0.00	0.00	0.00
96 SD-85	4.05	13.21	9.16	4.05	0.00	13.21	0.00	0.00	0.00
97 SD-86	5.78	13.40	7.62	5.78	0.00	13.40	0.00	0.00	0.00
98 SD-87	6.85	13.68	6.83	6.85	0.00	13.68	0.00	0.00	0.00
99 SD-88	7.87	14.19	6.32	7.87	0.00	14.19	0.00	0.00	0.00
100 SD-89	10.58	13.63	3.05	10.58	0.00	13.63	0.00	0.00	0.00
101 SD-9	0.18	10.03	9.85	0.18	0.00	10.03	0.00	0.00	0.00
102 SD-91	4.00	11.26	7.26	4.00	0.00	11.26	0.00	0.00	0.00

Junction Results

SN Element ID	Peak Inflow	Peak Lateral Inflow	Max HGL Elevation Attained	Max HGL Depth Attained	Max Surcharge Depth Attained	Min Freeboard Attained	Average HGL Elevation Attained	Average HGL Depth Attained	Time of Max HGL Occurrence	Time of Peak Flooding Occurrence	Total Flooded Volume	Total Time Flooded
	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(days hh:mm)	(days hh:mm)	(ac-in)	(min)
88 SD-78	13.47	0.00	7.27	6.35	0.00	2.52	1.79	0.87	0 11:30	0 00:00	0.00	0.00
89 SD-78A	7.77	1.52	12.78	6.26	0.00	1.83	8.07	1.55	0 11:29	0 00:00	0.00	0.00
90 SD-79	13.46	0.00	8.96	6.82	0.00	1.89	3.66	1.52	0 11:30	0 00:00	0.00	0.00
91 SD-79A	7.15	2.27	13.40	6.38	0.00	1.00	8.74	1.72	0 11:29	0 00:00	0.00	0.00
92 SD-8	2.68	0.00	8.26	7.34	0.00	1.53	1.82	0.90	0 11:30	0 00:00	0.00	0.00
93 SD-80	3.39	3.39	13.86	4.40	0.00	0.00	9.80	0.34	0 11:10	0 11:10	0.00	0.00
94 SD-80A	17.25	17.25	13.76	5.20	0.00	0.00	10.01	1.45	0 11:02	0 11:30	9.86	123.00
95 SD-81	0.73	0.73	9.49	5.54	0.00	0.91	4.54	0.59	0 11:30	0 00:00	0.00	0.00
96 SD-85	13.05	2.25	12.53	8.48	0.00	0.68	5.00	0.95	0 11:29	0 00:00	0.00	0.00
97 SD-86	9.87	3.20	13.05	7.27	0.00	0.35	6.56	0.78	0 11:29	0 00:00	0.00	0.00
98 SD-87	7.67	3.95	13.54	6.69	0.00	0.14	7.59	0.74	0 11:29	0 00:00	0.00	0.00
99 SD-88	5.03	3.61	14.19	6.32	0.00	0.00	8.48	0.61	0 11:14	0 11:14	0.00	0.00
100 SD-89	5.12	3.74	13.63	3.05	0.00	0.00	10.93	0.35	0 11:15	0 11:30	1.51	47.00
101 SD-9	2.94	0.04	8.55	8.37	0.00	1.47	0.89	0.71	0 11:09	0 00:00	0.00	0.00
102 SD-91	5.27	0.97	11.26	7.26	0.00	0.00	4.74	0.74	0 11:15	0 11:30	3.99	69.00

Pipe Input

SN Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate
89 Pipe - (86)	51.28	-4.12	0.00	-4.22	0.00	0.10	0.1900	CIRCULAR	33.000	33.000	0.0130	0.5000	0.5000	0.0000	0.00	No
90 Pipe - (87)	316.28	-4.22	0.00	-4.83	0.00	0.61	0.1900	CIRCULAR	33.000	33.000	0.0130	0.5000	0.5000	0.0000	0.00	No
91 Pipe - (88)	239.33	5.74	0.00	4.26	0.00	1.48	0.6200	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
92 Pipe - (89)	79.46	4.26	0.00	3.76	0.00	0.50	0.6300	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
93 Pipe - (90)	41.00	3.76	0.00	3.52	0.00	0.24	0.5900	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
94 Pipe - (91)	232.34	3.52	0.00	2.18	0.00	1.34	0.5800	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
95 Pipe - (92)	31.53	2.18	0.00	2.00	0.00	0.18	0.5700	CIRCULAR	15.000	15.000	0.0130	0.5000	0.5000	0.0000	0.00	No
96 Pipe - (93)	77.64	2.00	0.00	1.57	0.00	0.43	0.5500	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
97 Pipe - (94)	230.06	1.57	0.00	0.29	0.00	1.29	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
98 Pipe - (95)	36.83	0.29	0.00	0.08	0.00	0.21	0.5600	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
99 Pipe - (96)	77.73	5.96	0.00	5.25	0.00	0.71	0.9100	CIRCULAR	18.000	18.000	0.0130	0.5000	0.5000	0.0000	0.00	No
100 Pipe - (97)	146.12	3.95	0.00	3.15	0.00	0.80	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No
101 Pipe - (98)	63.81	3.15	0.00	2.80	0.00	0.35	0.5500	CIRCULAR	12.000	12.000	0.0130	0.5000	0.5000	0.0000	0.00	No

Pipe Results

SN Element ID	Peak Flow (cfs)	Time of Peak Flow (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/Total Depth Ratio	Total Time Surcharged (min)	Froude Number	Reported Condition
1 OUTFALL-PIPE	65.19	0 11:30	32.09	2.03	13.28	0.18	2.50	1.00	19.00	0.92	SURCHARGED
2 Pipe - (102)	4.65	0 11:16	10.67	0.44	1.93	0.70	1.75	1.00	89.00	0.26	SURCHARGED
3 Pipe - (103)	4.67	0 11:43	12.77	0.37	2.96	0.06	1.75	1.00	89.00	0.70	SURCHARGED
4 Pipe - (104)	4.85	0 11:43	12.95	0.37	3.71	0.16	1.75	1.00	90.00	0.85	SURCHARGED
5 Pipe - (105)	5.27	0 11:43	12.95	0.41	3.26	0.66	1.75	1.00	92.00	0.72	SURCHARGED
6 Pipe - (106)	5.28	0 11:43	8.33	0.63	2.68	0.90	1.75	1.00	136.00	0.52	SURCHARGED
7 Pipe - (107)	6.02	0 11:41	8.30	0.73	2.74	1.38	1.75	1.00	198.00	0.51	SURCHARGED
8 Pipe - (108)	6.03	0 11:42	8.75	0.69	2.80	0.37	1.75	1.00	208.00	0.49	SURCHARGED
9 Pipe - (109)	6.48	0 11:40	8.71	0.74	2.70	1.51	1.75	1.00	213.00	0.40	SURCHARGED
10 Pipe - (110)	6.76	0 11:40	8.84	0.76	2.81	0.34	1.75	1.00	267.00	0.24	SURCHARGED
11 Pipe - (135)	18.10	0 11:40	23.79	0.76	3.69	1.71	2.50	1.00	212.00	0.40	SURCHARGED
12 Pipe - (136)	4.30	0 11:32	5.25	0.82	2.44	1.91	1.50	1.00	194.00	0.60	SURCHARGED
13 Pipe - (137)	4.30	0 11:32	11.82	0.36	2.44	0.76	1.50	1.00	202.00	0.06	SURCHARGED
14 Pipe - (138)	9.67	0 12:23	9.46	1.02	4.02	0.23	1.75	1.00	221.00	0.52	SURCHARGED
15 Pipe - (139)	9.81	0 12:23	9.51	1.03	4.08	0.92	1.75	1.00	221.00	0.51	SURCHARGED
16 Pipe - (140)	9.98	0 12:23	9.51	1.05	4.15	0.25	1.75	1.00	242.00	0.42	SURCHARGED
17 Pipe - (141)	9.99	0 12:24	8.07	1.24	4.15	0.40	1.75	1.00	237.00	0.43	SURCHARGED
18 Pipe - (142)	10.10	0 12:23	8.08	1.25	4.20	0.87	1.75	1.00	236.00	0.42	SURCHARGED
19 Pipe - (143)	10.35	0 12:23	8.08	1.28	4.30	0.37	1.75	1.00	222.00	0.38	SURCHARGED
20 Pipe - (144)	10.36	0 12:24	10.12	1.02	3.30	0.33	2.00	1.00	209.00	0.36	SURCHARGED
21 Pipe - (145)	10.51	0 12:24	10.12	1.04	3.35	1.08	2.00	1.00	209.00	0.38	SURCHARGED
22 Pipe - (146)	10.66	0 12:24	10.12	1.05	3.39	0.50	2.00	1.00	208.00	0.42	SURCHARGED
23 Pipe - (147)	10.67	0 12:24	13.57	0.79	3.49	0.28	2.00	1.00	208.00	0.55	SURCHARGED
24 Pipe - (148)	10.81	0 12:24	13.57	0.80	3.44	1.04	2.00	1.00	209.00	0.52	SURCHARGED
25 Pipe - (149)	10.93	0 12:24	13.79	0.79	3.48	0.32	2.00	1.00	234.00	0.39	SURCHARGED
26 Pipe - (150)	10.94	0 12:24	13.85	0.79	2.75	0.63	2.25	1.00	220.00	0.34	SURCHARGED
27 Pipe - (151)	11.16	0 11:16	13.85	0.81	2.81	1.28	2.25	1.00	222.00	0.34	SURCHARGED
28 Pipe - (152)	11.50	0 11:16	13.85	0.83	3.02	0.49	2.25	1.00	231.00	0.40	SURCHARGED
29 Pipe - (153)	2.69	0 11:14	9.26	0.29	4.05	0.60	1.50	1.00	70.00	1.06	SURCHARGED
30 Pipe - (154)	2.73	0 11:13	9.28	0.29	3.15	1.06	1.50	1.00	75.00	0.70	SURCHARGED
31 Pipe - (155)	5.24	0 11:13	7.68	0.68	3.80	0.84	1.50	1.00	81.00	0.76	SURCHARGED
32 Pipe - (156)	7.46	0 11:12	11.30	0.66	4.43	0.79	1.75	1.00	85.00	0.87	SURCHARGED
33 Pipe - (157)	9.87	0 11:30	24.72	0.40	4.69	0.45	2.25	1.00	88.00	0.91	SURCHARGED
34 Pipe - (158)	10.81	0 11:30	24.69	0.44	5.55	0.43	2.25	1.00	95.00	1.04	SURCHARGED
35 Pipe - (159)	13.06	0 11:30	38.01	0.34	3.51	0.68	2.25	1.00	104.00	0.67	SURCHARGED
36 Pipe - (28)	2.16	0 11:30	12.13	0.18	9.42	0.16	0.33	0.33	0.00	3.38	Calculated
37 Pipe - (29)	3.11	0 11:30	12.13	0.26	11.94	0.09	0.37	0.37	0.00	4.07	Calculated
38 Pipe - (30)	3.15	0 11:30	12.13	0.26	5.59	0.59	0.67	0.67	0.00	1.94	Calculated
39 Pipe - (32)	4.68	0 11:13	7.96	0.59	7.02	0.09	1.00	1.00	75.00	1.87	SURCHARGED
40 Pipe - (33)	4.75	0 11:30	6.68	0.71	3.87	0.58	1.25	1.00	80.00	0.89	SURCHARGED
41 Pipe - (34)	4.87	0 11:10	4.14	1.18	3.97	0.64	1.25	1.00	90.00	0.44	SURCHARGED
42 Pipe - (35)	5.68	0 11:10	2.91	1.95	4.63	0.11	1.25	1.00	86.00	0.54	SURCHARGED
43 Pipe - (36)	6.64	0 11:10	7.87	0.84	3.90	0.96	1.50	1.00	84.00	0.84	SURCHARGED
44 Pipe - (37)	7.09	0 11:10	7.91	0.90	4.01	0.34	1.50	1.00	91.00	0.66	SURCHARGED
45 Pipe - (38)	7.24	0 11:10	8.79	0.82	3.01	0.23	1.75	1.00	90.00	0.56	SURCHARGED
46 Pipe - (39)	7.49	0 11:10	9.11	0.82	3.12	0.58	1.75	1.00	90.00	0.58	SURCHARGED
47 Pipe - (40)	6.30	0 11:02	7.43	0.85	3.56	1.44	1.50	1.00	218.00	0.55	SURCHARGED
48 Pipe - (41)	7.15	0 11:02	5.89	1.21	4.04	0.66	1.50	1.00	242.00	0.55	SURCHARGED
49 Pipe - (44)	7.77	0 11:02	8.20	0.95	4.40	0.14	1.50	1.00	265.00	0.56	SURCHARGED
50 Pipe - (45)	7.80	0 11:02	7.43	1.05	4.41	0.67	1.50	1.00	265.00	0.58	SURCHARGED
51 Pipe - (46)	7.99	0 11:02	7.38	1.08	4.52	0.51	1.50	1.00	280.00	0.57	SURCHARGED
52 Pipe - (47)	8.16	0 11:02	7.42	1.10	4.62	0.53	1.50	1.00	289.00	0.48	SURCHARGED
53 Pipe - (48)	8.30	0 11:02	7.57	1.10	4.70	0.10	1.50	1.00	288.00	0.41	SURCHARGED
54 Pipe - (51)	8.66	0 11:02	10.39	0.83	2.76	0.92	2.00	1.00	209.00	0.39	SURCHARGED
55 Pipe - (52)	9.69	0 11:06	10.51	0.92	3.08	0.85	2.00	1.00	214.00	0.35	SURCHARGED
56 Pipe - (53)	3.39	0 11:30	4.35	0.78	4.32	0.73	1.00	1.00	75.00	1.00	SURCHARGED
57 Pipe - (54)	3.52	0 11:17	4.34	0.81	5.10	0.37	1.00	1.00	90.00	1.26	SURCHARGED
58 Pipe - (55)	3.44	0 11:10	4.35	0.79	4.38	0.63	1.00	1.00	197.00	0.72	SURCHARGED
59 Pipe - (56)	3.88	0 11:10	4.31	0.90	4.94	0.08	1.00	1.00	388.00	0.20	SURCHARGED
60 Pipe - (57)	13.47	0 11:08	11.46	1.18	4.29	0.38	2.00	1.00	205.00	0.43	SURCHARGED
61 Pipe - (58)	13.47	0 11:08	11.48	1.17	4.29	0.50	2.00	1.00	200.00	0.46	SURCHARGED
62 Pipe - (59)	13.46	0 11:08	11.47	1.17	4.29	0.74	2.00	1.00	133.00	0.54	SURCHARGED
63 Pipe - (60)	13.47	0 11:08	11.64	1.16	5.42	0.17	2.00	1.00	89.00	1.01	SURCHARGED
64 Pipe - (61)	13.51	0 11:07	45.50	0.30	4.30	0.11	2.00	1.00	89.00	0.64	SURCHARGED
65 Pipe - (62)	23.66	0 11:10	13.85	1.71	5.95	0.40	2.25	1.00	85.00	0.61	SURCHARGED
66 Pipe - (63)	25.43	0 11:10	29.26	0.87	5.26	0.71	2.50	1.00	81.00	0.80	SURCHARGED
67 Pipe - (64)	42.46	0 11:30	127.62	0.33	6.01	0.21	3.00	1.00	76.00	0.82	SURCHARGED
68 Pipe - (65)	22.95	0 11:33	29.83	0.77	3.25	0.30	3.00	1.00	290.00	0.18	SURCHARGED
69 Pipe - (66)	8.88	0 11:10	10.29	0.86	3.69	0.33	1.75	1.00	139.00	0.62	SURCHARGED
70 Pipe - (66) (1)	9.18	0 11:10	10.29	0.89	3.81	1.26	1.75	1.00	178.00	0.28	SURCHARGED
71 Pipe - (67)	8.65	0 11:10	9.00	0.96	3.60	0.83	1.75	1.00	93.00	0.61	SURCHARGED
72 Pipe - (68)	7.77	0 11:02	8.12	0.96	4.40	0.66	1.50	1.00	242.00	0.61	SURCHARGED
73 Pipe - (69)	27.73	0 11:10	29.20	0.95	7.58	0.30	2.50	1.00	84.00	1.23	SURCHARGED
74 Pipe - (70)	9.33	0 11:30	13.46	0.69	7.81	0.50	1.17	0.94	0.00	1.09	Calculated
75 Pipe - (71)	22.92	0 11:33	23.65	0.97	3.86	1.10	2.75	1.00	309.00	0.20	SURCHARGED
76 Pipe - (73)	2.68	0 11:10	1.91	1.40	3.42	0.19	1.00	1.00	208.00	0.40	SURCHARGED
77 Pipe - (74)	2.50	0 11:10	1.95	1.28	3.19	1.19	1.00	1.00	202.00	0.45	SURCHARGED
78 Pipe - (75)	1.84	0 11:10	1.98	0.93	2.34	0.30	1.00	1.00	200.00	0.41	SURCHARGED
79 Pipe - (76)	2.32	0 11:10	1.94	1.20	2.95	0.38	1.00	1.00	201.00	0.49	SURCHARGED
80 Pipe - (77)	2.84	0 11:30	1.92	1.48	3.61	0.19	1.00	1.00	130.00	0.50	SURCHARGED
81 Pipe - (78)	2.05	0 11:28	1.95	1.05	2.61	1.30	1.00	1.00	138.00	0.49	SURCHARGED
82 Pipe - (79)	2.69	0 11:08	1.74	1.54	3.43	0.53	1.00	1.00	203.00	0.40	SURCHARGED
83 Pipe - (80)	2.80	0 11:08	1.74	1.61	3.57	0.33	1.00	1.00	197.00	0.40	SURCHARGED
84 Pipe - (81)	2.92	0 11:10	1.76	1.66	3.71	0.57	1.00	1.00	166.00	0.53	SURCHARGED
85 Pipe - (82)	2.94	0 11:10	3.82	0.77	3.09	1.51	1.25	1.00	118.00	0.66	SURCHARGED
86 Pipe - (83)	3.85	0 11:10	5.87	0.66	3.96	0.46	1.25	1.00	203.00	0.83	SURCHARGED
87 Pipe - (84)	4.13	0 11:10	5.85	0.71	3.36	1.22	1.25	1.00	238.00	0.51	SURCHARGED

Pipe Results

SN Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Froude Number	Reported Condition
	(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)		
88 Pipe - (85)	4.62	0 11:30	5.93	0.78	3.76	0.22	1.25	1.00	355.00	0.16	SURCHARGED
89 Pipe - (86)	22.88	0 11:32	23.65	0.97	3.85	0.22	2.75	1.00	277.00	0.36	SURCHARGED
90 Pipe - (87)	22.91	0 11:33	23.65	0.97	3.86	1.37	2.75	1.00	277.00	0.31	SURCHARGED
91 Pipe - (88)	3.39	0 11:34	5.08	0.67	3.55	1.12	1.25	1.00	63.00	0.89	SURCHARGED
92 Pipe - (89)	3.43	0 11:16	5.12	0.67	3.35	0.40	1.25	1.00	71.00	0.85	SURCHARGED
93 Pipe - (90)	3.44	0 11:16	4.94	0.70	3.37	0.20	1.25	1.00	74.00	0.81	SURCHARGED
94 Pipe - (91)	4.13	0 11:16	4.91	0.84	3.59	1.08	1.25	1.00	75.00	0.82	SURCHARGED
95 Pipe - (92)	4.38	0 11:16	4.88	0.90	3.64	0.14	1.25	1.00	81.00	0.83	SURCHARGED
96 Pipe - (93)	4.35	0 11:16	7.82	0.56	3.75	0.35	1.50	1.00	80.00	0.88	SURCHARGED
97 Pipe - (94)	4.65	0 11:16	7.85	0.59	2.65	1.45	1.50	1.00	82.00	0.44	SURCHARGED
98 Pipe - (95)	4.73	0 11:16	7.84	0.60	2.67	0.23	1.50	1.00	96.00	0.20	SURCHARGED
99 Pipe - (96)	0.21	0 10:50	10.04	0.02	0.80	1.62	1.50	1.00	216.00	0.01	SURCHARGED
100 Pipe - (97)	0.73	0 11:30	2.64	0.28	1.23	1.98	1.00	1.00	203.00	0.18	SURCHARGED
101 Pipe - (98)	0.72	0 11:30	2.64	0.27	0.92	1.16	1.00	1.00	314.00	0.03	SURCHARGED